



**Applicant: Medical Research Council**  
**Title: Crystal Structure of Antibiotics Bound to the**  
**30S Ribosome and Its Use**

UK Priority Application No  
0029870.3





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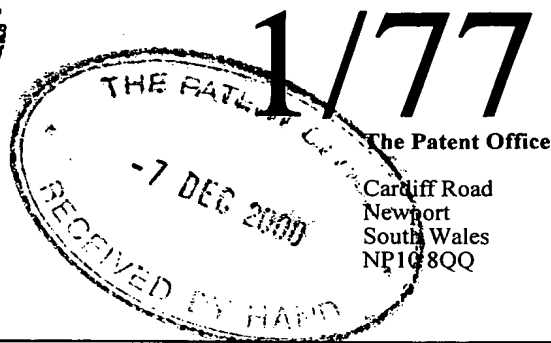
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1. Your reference **AHB/CP5891098**

2. Patent application number **0029870.3**  
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3. Full name, address and postcode of the or of each applicant (underline all surnames)  
Patents ADP number (if you know it)

**MEDICAL RESEARCH COUNCIL  
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P01/7700 0.00-0029870.3

If the applicant is a corporate body, give the country/state of its incorporation

**596007001**

**UNITED KINGDOM**

4. Title of the invention **CRYSTAL STRUCTURE (IV)**

5. Name of your agent (if you have one) **MEWBURN ELLIS**

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Patents ADP number (if you know it) **109006**

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number	Country	Priority application number (if you know it)	Date of filing (day / month / year)
	GB	0017376.5	14/07/00
	GB	0022943.5	19/09/00

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application	Date of filing (day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? **YES**

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CRYSTAL STRUCTURE (IV)

This application claims priority from UK application 0017376.5 filed July 14, 2000, and UK application 0022943.5 filed 19 September 2000, the contents of both of which are incorporated herein by reference.

Field of the Invention

10 The present invention relates to the provision of a high resolution crystal structure of the antibiotic pactamycin bound to the prokaryotic 30S ribosome subunit, and the use of this structure in drug discovery.

15 Background of the Invention

Translation of the genetic code occurs on the ribosome, a large nucleoprotein complex that consists of two subunits. In bacteria, the two subunits are denoted 30S and 50S. The 50S subunit contains the catalytic site of peptidyl transferase activity, while the 30S subunit plays a crucial role in decoding messenger RNA. Protein synthesis is a complex, multistep process that requires several extrinsic GTP-hydrolysing protein factors during each of the main stages of initiation, elongation and termination. Despite several decades of work, the molecular details of the process are poorly understood, and the elucidation of the mechanism of translation is one of the fundamental problems in molecular biology today.

30

An important contribution to this problem was made by Yonath and co-workers, who after nearly a decade of work showed that structures as large as the 50S ribosomal subunit would form



crystals that diffract beyond 3 Å resolution (J. Mol. Biol. 203, 831-834 (1988), Acta Crystallogr A54, 945-55 (1998)). Originally, it was not clear that phase information from such a large asymmetric unit could be obtained to high resolution, but the development of bright, tuneable synchrotron radiation sources, large and accurate area detectors, vastly improved crystallographic computing, and the advent of cryo-crystallography have all contributed to making structural studies of the ribosome more tractable. In our work, the use of anomalous scattering from the LIII edges of lanthanides and osmium has also played a critical role in obtaining phases.

The 30S ribosomal subunit (hereafter referred to as 30S) from *Thermus thermophilus* was originally crystallized by Trakhanov et al. in 2-methyl-2,4-pentanediol (MPD) (FEBS Lett. 220, 319-322 (1987)) and soon afterwards by Yonath and coworkers in a mixture of ethyl-butanol and ethanol. Subsequent work by both groups showed that the MPD crystal form diffracted to about 9-12 Å resolution. The diffraction limit of these crystals did not improve beyond 7 Å resolution for almost a decade, but more recently both Yonath and coworkers and we obtained crystals of the MPD form that exhibit significantly improved diffraction. However, unlike the crystals obtained by the Yonath group, our crystals do not require soaking in tungsten clusters or heat treatment in order to obtain high resolution diffraction.

Last year, we described the structure of the 30S at 5.5 Å resolution (Nature 400, 833-840 (1999)). We were able to place all seven proteins whose structures were known at the time, infer the structure of protein S20 to be a three-helix bundle, trace the fold of an entire domain of 16S RNA, and identify a long RNA helix at the interface that contains the decoding



site of the 30S. Proteins S5 and S7 were also placed in electron density maps of the 30S obtained by Yonath and coworkers.

5 The 30S ribosomal subunit is a major target for antibiotics. The ribosome is a useful target for antibiotics since the structure of the 30S is widely conserved between prokaryotes, allowing for broad spectrum antibiotics. However, resistance to current antibiotics is currently a major problem in the  
10 field of medicine. There are presently very few new antibiotics available which can be used to treat the highly resistant strains of bacteria such as MRSA (methicilin resistant *Staphylococcus aureus*) which are becoming increasingly widespread.

15 Understanding the interaction of antibiotics with the ribosome at the molecular level is important for two reasons. Firstly, antibiotics act by interfering with various aspects of ribosome function. Thus understanding their interaction will  
20 help shed light on mechanisms involved in translation. Secondly, a detailed knowledge of antibiotic interactions with the ribosome could aid the development of new drugs against increasingly resistant strains of bacteria. Although antibiotics were characterized several decades ago, a detailed  
25 knowledge of their mechanism will in general require a three-dimensional structure of their complex with the ribosome.

The low (worse than 3Å resolution) crystal structures described above do not provide sufficiently detailed  
30 resolution for useful modelling of the crystal structure of the 30S and there is thus a need for a high resolution structure which can be used usefully in the development of novel therapeutics.



Summary of the Invention

Our earlier co-pending applications GB0017376.5 and  
5 GB0022943.5 provide a high resolution crystal structure of the  
30S ribosomal subunit, together with the structure of three  
antibiotics, paromomycin, streptomycin and spectinomycin bound  
to this subunit.

10 The structure of the 30S ribosome is available from the  
Research Collaboratory for Structural Bioinformatics (RCSB) at  
<http://www.rcsb.org> with the accession code 1FJF. The  
antibiotic bound structure is available at the same location  
with the accession code 1FJG.

15 We have now continued this work and identified the location  
and binding of the antibiotic pactamycin.

In a first aspect, the present invention provides a crystal  
20 structure of the *Thermus thermophilus* 30S subunit bound to  
pactamycin having a tetragonal space group  $P4_12_12$  with unit  
cell dimensions of  $a = 401.719$ ,  $b = 401.719$  ,  $c = 177.002\text{\AA}$  ,  
or more generally,  $a = 401.719 \pm 0.7$ ,  $b = 401.719 \pm 0.7$ ,  $c =$   
 $177.002 \pm 0.7$  Å. Such a structure includes the 30S crystal of  
25 Table 1. An advantageous feature of the structure is that it  
diffracts beyond about 3Å resolution. Another feature of the  
structure is that it was obtained in a method which did not  
involve the use of heavy atom clusters or heat activation.  
Furthermore, it is specifically of the 885-888/910-912 base  
30 pairing confirmation of 16S RNA. These features, both singly  
and in combination all contribute to features of the invention  
which are advantageous.



The coordinates of Table 1 provides a measure of atomic location in Angstroms, to a third decimal place. In order to use the information in these Tables for the purposes described herein as being aspects of the present invention, these  
5 coordinates may be varied by  $\pm 0.7$ , preferably no more than  $\pm 0.5$  Angstroms, without departing from the scope of the invention. Reference herein to the use of the coordinates of Table 1 thus includes the use of coordinates in which one or more individual values of the Table are adjusted by this  
10 amount.

We have also observed that 30S crystals do not contain the S1 subunit protein. In our studies, we have found that by selectively removing this protein prior to crystallization, we  
15 have been able to obtain the improved resolution described herein. Although the atomic co-ordinates provided in Table 1 allow those of skill in the art to bypass the need to undertake the crystallization of the 30S, this crystallization method nonetheless forms a further aspect of the invention.

20 Accordingly, there is provided a method for crystallizing the 30S subunit bound to pactamycin to obtain a high resolution structure of said bound 30S subunit, which method comprises providing a 30S subunit, selectively removing the S1 subunit  
25 therefrom (e.g. by hydrophobic interaction chromatography or by gel electrophoresis), crystallizing the 30S and soaking the crystal with pactamycin (e.g. from 10 to 500  $\mu\text{M}$ , preferably 50 to 100  $\mu\text{M}$ , such as about 80  $\mu\text{M}$ ). The crystallization conditions may comprises the use of 13-17% methyl-2,4-  
30 pentanediol in the presence of 250 mM KCl, 75 mM ammonium chloride, 15 mM  $\text{MgCl}_2$  at a pH of 6.5 in sodium cacodylate or MES (2-(N-morpholino)ethane sulphonic acid). In another aspect, the conditions may comprise the use of 250 mM KCl, 75



mM  $\text{NH}_4\text{Cl}$ , 25 mM  $\text{MgCl}_2$ , 6 mM 2-mercaptoethanol in 0.1 M potassium cacodylate or 0.1 M MES (2-N-morpholinoethanesulfonic acid) at pH 6.5 with 13-17% MPD as the precipitant.

5

Crystals may be grown over a period of 4-8 weeks at about 4°C, prior to soaking in accordance with normal procedures known as such to those of skill in the art. Crystals obtainable by such a method are also a further aspect of the invention.

10

This methodology provides those of skill in the art a means to provide 30S crystals of *T.thermophilus* to which pactamycin is bound. The conservation of ribosome structure, particularly regions of structure essential for function, between

15 prokaryotes, for example prokaryotes which are human

pathogens, such as *Staphylococcus* spp, and the like, allows the structure herein to be useful in the provision of antibacterial agents in general.

20 The crystals may be grown by any suitable method known as such to those of skill in the art. The structure of the crystals so obtained may be resolved to a resolution of at least 3Å.

The coordinates of pactamycin in Table 1 are listed as atoms  
25 51780-51819. Table 1 also includes the coordinates of a number of metal ions. Reference to Table 1 also includes reference to this table in which some or all of these metal ion coordinates are omitted.

30 Table 1 also lists the coordinates of a 26 amino acid peptide, Thx (atoms 51571-51779), as well as a 6 nucleotide fragment of mRNA, NNNUCU, designated as molecule X (32392-32508). Both the coordinates of both these molecules may likewise



optionally be discarded, i.e. so that the coordinates of the 16S mRNA and the proteins S2 to S20 alone are modelled and used in applications of the invention.

5 The provision of the high resolution structure of Table 1 provides those of skill in the art with a detailed insight into the mechanisms of action of pactamycin. This insight provides a means to design new antibiotics which have the potential to overcome the mechanisms of resistance found in  
10 bacteria.

For example, the structure provided herein allows those of skill in the art to determine how pactamycin binds to the 30S and opens up the possibility of rational drug design in which  
15 molecules are developed which retain contacts with the 30S substantially similar to those of pactamycin, but which differ in structure so as to overcome the resistance mechanisms of the bacterial cell.

20 Accordingly, the invention provides a computer-based method of rational drug design which comprises:

providing the structure of the 30S ribosome as defined by the coordinates of Table 1;

25 providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the structure of the 30S to provide a result; and

comparing said result with a structure comprising the 30S of Table 1 together with the pactamycin structure of Table 1.

30

It will be understood that the phrase "the structure of the 30S ribosome as defined by the coordinates of Table 1" as used above and elsewhere herein is reference to the coordinates



defined by atoms 1-51779 of Table 1, including or not including the Thx and molecule X coordinates, optionally in conjunction with any or all of the metal ions defined by Table 1.

5

The data of Table 1 indicate that there are a number of contacts between pactamycin and the 16S RNA of the 30S. Thus in the above aspect of the invention, those of skill in the art may choose to use the data of Table 1 relating to the 16S RNA and pactamycin in the process of drug design.

10

Accordingly, there is also provided a computer-based method of rational drug design which comprises:

providing the structure of the 16S RNA of the 30S ribosome as defined by the coordinates of Table 1;

15

providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the structure of the 16S RNA of the 30S to provide a result; and

comparing said result with a structure comprising the 16S RNA of the 30S of Table 1 together with the pactamycin structure of Table 1.

20

In an alternative aspect, the method of the invention may utilise the coordinates of atoms of interest of the 30S which are in the vicinity of the pactamycin binding region in order to model the pocket in which the pactamycin binds. These coordinates may be used to define a space which is then screened "*in silico*" against a candidate inhibitor molecule. Thus the invention provides a computer-based method of rational drug design which comprises:

30

providing the coordinates of at least one atom of Table 1 of the 30S ribosome;

providing the structure of a candidate inhibitor



molecule;

fitting the structure of candidate to the coordinates of the 30S ribosome provided to obtain a result; and

comparing said result with a structure comprising the  
5 coordinates of the 30S ribosome provided and at least one atom from the pactamycin structure of Table 1.

In this embodiment, the at least one atom of the 30S ribosome provided will preferably be within a distance of 50,  
10 preferably 10 Angstroms of at least one of the atoms of the pactamycin molecule described in Table 1.

In practice, it will be desirable to model a sufficient number of atoms of the 30S ribosome as defined by the coordinates of  
15 Table 1 which represent a binding pocket. Binding pockets and other features of the interaction of pactamycin with the 30S ribosome are described in the accompanying example. Thus, in this embodiment of the invention, there will preferably be provided the coordinates of at least 5, preferably at least  
20 10, more preferably at least 50 and even more preferably at least 100 atoms such as at least 500 atoms of the 30S ribosome. Of these atoms provided, at least one will preferably be within the distance mentioned above of the pactamycin molecule described in Table 1.

25

Likewise, when a candidate is fitted to the selected coordinates of the 30S ribosome the comparison with pactamycin is preferably made by reference to at least 3, such as at least 5, for example at least 8, more preferably at least 16  
30 of the atoms of the pactamycin structure provided in Table 1.

In another aspect, the method of the invention may utilise a sub-domain of interest of the 30S which is in the vicinity of



a pactamycin binding region. Thus, the invention provides a computer-based method of rational drug design which comprises:

providing the coordinates of at least a sub-domain of the 30S ribosome;

5 providing the structure of a candidate inhibitor molecule;

fitting the structure of the candidate to the coordinates of the 30S ribosome sub-domain provided to obtain a result; and

10 comparing said result with a structure comprising the coordinates of the 30S ribosome of same sub-domain provided and at least one atom from the pactamycin structure of Table 1.

15 A sub-domain may be at least one element of secondary structure of the 30S ribosome including one or more (such as 2, 4, 5 or 10) of the 16S RNA hairpin loops H1-H44 and/or one or more of the ribosomal proteins.

20 A subdomain also includes a space of volume defining a region around any one particular atom of interest (e.g. an atom involved in binding to an antibiotic), the volume being less than the total volume of the tetragonal space of the complete crystal. For example, the coordinates of atoms in a volume  
25 of from about 500 to about 15,000 Å<sup>3</sup> may be selected and used for the present invention. Such a space may be a sphere having a diameter of from about 10Å to about 30Å, centred around a point of interest.

30 An active site of the 30S is any part of this structure involved in tRNA or mRNA binding, synthesis or translocation, including regions of the complex not directly associated with tRNA or mRNA binding but which are required for the ribosome



to function, for example those regions which undergo structural changes associated with protein synthesis or are target sites for regulation by co-factors, phosphorylation or acetylation.

5

Particular regions of the 30S include those identified herein as antibiotic binding regions based on the data provided in Table 1. Other regions include the three tRNA sites, i.e. the aminoacyl (A), peptidyl (P) and (exit) E sites. Other active  
10 sites are those which undergo movement during translocation of tRNAs from the A to P sites and the P to E sites.

Regions further include any one of the subunit proteins S2 to S20, including any of the individually identified subunit  
15 proteins in the accompanying examples.

There are a few N- or C-terminal sequences of the S2 to S20 proteins which were not resolved in the structure of Table 1, together with a some of the 5' and 3' residues of the 16S RNA.  
20 These are not essential for the purposes of the present invention.

A candidate inhibitor molecule may be any available compound. A number of commercial sources of libraries of compound  
25 structures are available.

A candidate inhibitor (including antibiotics and derivatives thereof) of 30S activity can be examined through the use of computer modelling using a docking program such as GRAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3, No.4, (1998), 160-178, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42) to identify potential inhibitors of 30S. This procedure can include computer fitting of potential



inhibitors to 30S to ascertain how well the shape and the chemical structure of the potential inhibitor will bind to the ribosome.

5 Also computer-assisted, manual examination of the active site structure of 30S may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 849-857) - a program that determines probable interaction sites between molecules with various functional groups and the enzyme  
10 surface - may also be used to analyse the active site to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners  
15 (e.g. the 30S and a candidate inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the  
20 design of a candidate inhibitor, the more likely it is that it will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

25 In another aspect, in place of *in silico* methods, high throughput screening of compounds to select compounds with ribosome binding activity may be undertaken, and those compounds which show ribosome binding activity may be selected as possible candidate inhibitors, and further crystallized  
30 with 30S (e.g. by co-crystallization or by soaking) for x-ray analysis. The resulting x-ray structure may be compared with that of Table 1 for a variety of purposes. For example, where the contacts made by such compounds overlap with those may by



pactamycin, novel molecules comprising residues which contain contacts of both pactamycin and the other inhibitor may be provided.

5 Having designed or selected possible binding candidate inhibitors, these can then be screened for activity. Consequently, the method preferably further comprises the further steps of:

obtaining or synthesising the candidate inhibitor; and  
10 contacting the candidate inhibitor with 30S to determine the ability of the candidate inhibitor to interact with 30S.

More preferably, in latter step the candidate inhibitor is contacted with 30S under conditions to determine its function,  
15 for example in a cell free translation system.

Instead of, or in addition to, performing such an assay, the method may comprise the further steps of:

obtaining or synthesising said candidate inhibitor;  
20 forming a complex of 30S and said potential inhibitor;  
and

analysing said complex by X-ray crystallography to determine the ability of said candidate inhibitor to interact with 30S. Detailed structural information can then be  
25 obtained about the binding of the candidate inhibitor to 30S, and in the light of this information adjustments can be made to the structure or functionality of the potential inhibitor, e.g. to improve binding to the active site. The above steps may be repeated and re-repeated as necessary.

30

Another aspect of the invention includes a compound which is identified as an inhibitor of 30S by the method of the above aspects of the invention.



In another aspect, the invention provides a method of analysing a 30S-ligand complex comprising the step of employing (i) X-ray crystallographic diffraction data from the 30S-ligand complex and (ii) a three-dimensional structure of 30S, or at least one sub-domain thereof, to generate a difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1.

Therefore, 30S-ligand complexes can be crystallised and analysed using X-ray diffraction methods, e.g. according to the approach described by Greer et al., *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised 30S and the solved structure of uncomplexed 30S. These maps can then be used to determine whether and where a particular ligand binds to 30S and/or changes the conformation of 30S.

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, D50, (1994), 760-763.). For map visualisation and model building programs such as "O" (Jones et al., *Acta Crystallography*, A47, (1991), 110-119) can be used.

The high resolution data provided herein allows those of skill in the art who have obtained structures of worse resolution of the 30S to refine such structures in the light of the data of Table 1. Thus in a further aspect, the invention provides a method for modelling a structure of a 30S ribosome which



comprises providing an atomic model of a structure at a resolution of worse than 3Å (e.g. a resolution of worse than 5 Angstroms, such as 5-12 Å), comparing the structure obtained with the data of Table 1, and refining said model obtained to  
5 resolve the structure in order to provide a higher resolution structure. Such a process will be useful for the refinement of a 30S itself, or the 30S in various functional states as part of the 70S ribosome (e.g. bound to mRNA, elongation factors or the like).

10

Such a method will be useful in providing the structure of the 30S ribosome from other bacterial sources, since the overall secondary and tertiary structure of such ribosomes will be highly conserved in comparison to the *T. thermophilus*  
15 structure provided herein. The data provided herein may be used to in a process of modelling the 30S of other species *ab initio* by homology modelling using energy minimization criteria.

20 In a further aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table 1 recorded thereon, said data defining the three-dimensional structure of 30S, at least one atom or at least one sub-domain thereof, or (b) structure factor data for  
25 30S recorded thereon, the structure factor data being derivable from the atomic coordinate data of Table 1.

As used herein, "computer readable media" refers to any media which can be read and accessed directly by a computer. Such  
30 media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of



these categories such as magnetic/optical storage media.

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model 30S, or at least one atom or a sub-domain thereof. For example, RASMOL is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

10 On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell et al., in *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

15 In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for 30S or 30S ligand complexes, the systems containing either (a) atomic coordinate data according to Table 1, said data defining the three-dimensional structure of 30S, at least one atom or at least one sub-domain thereof, or (b) structure factor data for 30S, said structure factor data being derivable from the atomic coordinate data of Table 1.

25 Examples of such systems are microcomputer workstations available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM-OS/2 operating systems.

30 As used herein, "a computer system" refers to the hardware means, software means and data storage means used to analyse the atomic coordinate data of the present invention. The



minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data  
5 storage means may be RAM or means for accessing computer readable media of the invention.

The present high resolution structure of 30S provides a means to address the problems of antibiotic resistance in  
10 prokaryotes which are resistant to antibiotics known to act on the 30S, including pactamycin. Where a mutant strain resistant to the action of this antibiotic arises through mutation of a protein subunit of the 30S or through mutation in the 16S RNA, the sites of mutations can be identified.  
15 Where such sites are identified through, for example, primary sequence data, the invention provides a means to model the structure of the mutants.

The invention therefore allows an understanding of the reasons  
20 for mutations giving rise to antibiotic resistance and a means to design novel structures which may be useful in overcoming such resistance.

There is thus provided a method which comprises providing the  
25 structure of the 30S ribosome of Table 1, changing one amino acid or nucleotide of said structure to provide a mutant 30S, and modelling the structure of the mutant 30S to provide a structure of the mutant. The mutant may be used in the manner described above for the wild type, e.g. stored in computer  
30 readable form, modelled to provide ligands, and the like. The modelling may be based upon the predicted behaviour of the atoms of the changed amino acid based upon its interaction with the surrounding atoms in the model provided herein.



This process may be iterative, e.g. to produce successive mutations into the 30S structure, for example 2, 3, 4, or 5 to 10 mutations.

5

Regions of 30S which may be subject to this aspect of the invention include those regions identified in the accompanying examples as regions of the 30S involved in ribosome function or in resistance to antibiotics.

10

The following example illustrates the invention:

Pactamycin was isolated from *S. pactum* as a potential new human antitumor antibiotic and is a potent inhibitor of translation in both eukaryotes and prokaryotes (3). It is believed to inhibit the initiation process, i.e. the initiation factor mediated binding of fMet-tRNA to the ribosome (4), by sequestering the initiation complex in the A-site (5). This effectively prevents the formation of entire 70S ribosomes and thus halts the translation. The effect upon binding is similar for prokaryotes and eukaryotes (6).

The crystal structure of pactamycin, or 2-hydroxy-6-methylbenzoic acid [5-[(3-acetylphenyl)amino]-4-amino-3-[[[(dimethylamino)-carbonyl]amino]-1,2-dihydroxy-3-(1-hydroxyethyl)-2-methylcyclopentyl]methyl ester, in complex with the 30S ribosomal subunit was determined at 3.1Å resolution. 30S crystals were prepared as described (1, 2), and soaked post crystallisation in 80µM pactamycin. X-ray diffraction data were collected at beamline ID14-4 at the European Synchrotron Radiation Facility in Grenoble, France. The location of the antibiotic within the 30S subunit was identified from difference Fourier maps calculated after a few rounds of maximum-likelihood



based refinement of the native 30S structure (2) against the measured structure factor amplitudes.

Pactamycin binds to the upper part of the platform, very close to the cleft in the subunit that is responsible for binding of the three tRNA molecules. We have only found a single strong binding site of pactamycin in the 30S. The antibiotic interacts primarily with residues at the apices of the H23b stem loop in the central domain of 16S RNA in addition to a couple of bases from the nearby H24a. The site of binding is very close to the 3' minor domain and the ultimate H45, but there is not direct interaction with this region. In its binding to the RNA, pactamycin extends the stacking of bases in the tetra loop of H23b and mimics RNA both with respect to the bases and the sugar phosphate backbone. In this region, The H24a loop forms a regular helical stem loop to which the H23b stem loop is attached with interactions mainly between bulging bases in H23b and the backbone of H24a. The bases near the apices of H23b curve around and pack into the major groove of H24b, and this trend is extended by two "bases" by a single pactamycin molecule. The antibiotic folds up so that the two distal 6-carbon rings are stacked against each other like nucleotides with the 5-carbon in between resembling a sugar ring. The  $\text{NCON}(\text{CH}_3)_2$  extension on the central ring even to some extent mimics the phosphate ester moiety of RNA. The nearest proteins are S7 and S11, and there appears to be a weak hydrogen bond to the backbone carbonyl of Gly81 of S7.

Even though pactamycin has been described as binding primarily to the ribosomal P-site (4, 7), the observed protections for this antibiotic can be regarded as pertaining rather to the E-site. This notion is in more agreement with the present structure, in which the two "bases" of pactamycin coincide with the two last bases of the E-site codon of mRNA as observed in



the native 30S structure (8). In fact, pactamycin together with the first base in the E-site codon of the native structure form a triplet codon mimic in approximately the right position for interaction with an E-site tRNA. However, in the antibiotic bound structure, the actual position of the bases in the E-site codon is shifted remarkably, in a way that precludes a possible interaction with an E-site bound tRNA. In the native 30S structure, a kink is observed in the backbone of the messenger RNA at the interface between the P- and E-sites, however, the overall path of the mRNA is still relatively straight and leads between the long 73-90 beta hairpin of S7 and the stem loops of H23 and H24a of the platform. In the pactamycin-bound structure, however, the mRNA in the E-site is pushed towards the back of the subunit, and in between H28 of the head and the hairpin of S7. This is a remarkable distortion that comprises on average 12.5Å for the last of the bases in the E-site codon.

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Table 1 - 22/696  
CRYSTAL STRUCTURE (IV)

CRYST1	401.719	401.719	177.002	90.00	90.00	90.00	P 41 21 2	1	
ORIGX1	1.000000	0.000000	0.000000			0.000000			
ORIGX2	0.000000	1.000000	0.000000			0.000000			
ORIGX3	0.000000	0.000000	1.000000			0.000000			
SCALE1	0.002489	0.000000	0.000000			0.000000			
SCALE2	0.000000	0.002489	0.000000			0.000000			
SCALE3	0.000000	0.000000	0.005650			0.000000			
ATOM	1	O5* U	A	5	133.870	110.841	1.653	1.00	58.90 A16S
ATOM	2	C5* U	A	5	133.930	109.903	2.750	1.00	58.90 A16S
ATOM	3	C4* U	A	5	135.102	110.075	3.719	1.00	58.90 A16S
ATOM	4	O4* U	A	5	135.106	111.429	4.233	1.00	58.90 A16S
ATOM	5	C1* U	A	5	135.704	111.442	5.510	1.00	58.90 A16S
ATOM	6	N1 U	A	5	135.057	112.443	6.375	1.00	87.79 A16S
ATOM	7	C6 U	A	5	134.258	113.419	5.828	1.00	87.79 A16S
ATOM	8	C2 U	A	5	135.312	112.420	7.735	1.00	87.79 A16S
ATOM	9	O2 U	A	5	135.956	111.540	8.281	1.00	87.79 A16S
ATOM	10	N3 U	A	5	134.773	113.470	8.436	1.00	87.79 A16S
ATOM	11	C4 U	A	5	134.008	114.509	7.929	1.00	87.79 A16S
ATOM	12	O4 U	A	5	133.700	115.454	8.656	1.00	87.79 A16S
ATOM	13	C5 U	A	5	133.743	114.422	6.538	1.00	87.79 A16S
ATOM	14	C2* U	A	5	135.921	110.012	5.998	1.00	58.90 A16S
ATOM	15	O2* U	A	5	137.317	109.867	5.951	1.00	58.90 A16S
ATOM	16	C3* U	A	5	135.145	109.177	4.968	1.00	58.90 A16S
ATOM	17	O3* U	A	5	135.689	107.859	4.611	1.00	58.90 A16S
ATOM	18	P G	A	6	136.945	107.180	5.414	1.00	58.10 A16S
ATOM	19	O1P G	A	6	136.903	105.767	4.982	1.00	61.74 A16S
ATOM	20	O2P G	A	6	136.973	107.481	6.879	1.00	61.74 A16S
ATOM	21	O5* G	A	6	138.256	107.821	4.750	1.00	58.10 A16S
ATOM	22	C5* G	A	6	138.811	107.283	3.523	1.00	58.10 A16S
ATOM	23	C4* G	A	6	139.800	108.251	2.879	1.00	58.10 A16S
ATOM	24	O4* G	A	6	139.125	109.385	2.284	1.00	58.10 A16S
ATOM	25	C1* G	A	6	140.058	110.431	2.116	1.00	58.10 A16S
ATOM	26	N9 G	A	6	139.417	111.704	2.426	1.00	61.74 A16S
ATOM	27	C4 G	A	6	139.291	112.333	3.644	1.00	61.74 A16S
ATOM	28	N3 G	A	6	139.753	111.889	4.820	1.00	61.74 A16S
ATOM	29	C2 G	A	6	139.467	112.724	5.801	1.00	61.74 A16S
ATOM	30	N2 G	A	6	139.814	112.435	7.044	1.00	61.74 A16S
ATOM	31	N1 G	A	6	138.809	113.902	5.640	1.00	61.74 A16S
ATOM	32	C6 G	A	6	138.331	114.383	4.437	1.00	61.74 A16S
ATOM	33	O6 G	A	6	137.752	115.472	4.395	1.00	61.74 A16S
ATOM	34	C5 G	A	6	138.603	113.497	3.382	1.00	61.74 A16S
ATOM	35	N7 G	A	6	138.300	113.600	2.035	1.00	61.74 A16S
ATOM	36	C8 G	A	6	138.803	112.519	1.510	1.00	61.74 A16S
ATOM	37	C2* G	A	6	141.359	110.046	2.820	1.00	58.10 A16S
ATOM	38	O2* G	A	6	142.211	109.579	1.802	1.00	58.10 A16S
ATOM	39	C3* G	A	6	140.930	108.869	3.698	1.00	58.10 A16S
ATOM	40	O3* G	A	6	141.970	107.892	3.823	1.00	58.10 A16S
ATOM	41	P G	A	7	143.444	108.305	4.345	1.00	56.55 A16S
ATOM	42	O1P G	A	7	143.434	109.581	5.113	1.00	55.52 A16S
ATOM	43	O2P G	A	7	144.038	107.092	4.975	1.00	55.52 A16S
ATOM	44	O5* G	A	7	144.222	108.559	2.982	1.00	56.55 A16S
ATOM	45	C5* G	A	7	145.162	107.594	2.483	1.00	56.55 A16S
ATOM	46	C4* G	A	7	146.229	108.286	1.677	1.00	56.55 A16S
ATOM	47	O4* G	A	7	145.747	108.579	0.342	1.00	56.55 A16S
ATOM	48	C1* G	A	7	146.298	109.798	-0.081	1.00	56.55 A16S
ATOM	49	N9 G	A	7	145.382	110.392	-1.034	1.00	55.52 A16S
ATOM	50	C4 G	A	7	145.629	110.613	-2.358	1.00	55.52 A16S
ATOM	51	N3 G	A	7	146.751	110.275	-3.016	1.00	55.52 A16S
ATOM	52	C2 G	A	7	146.698	110.630	-4.280	1.00	55.52 A16S
ATOM	53	N2 G	A	7	147.716	110.340	-5.095	1.00	55.52 A16S
ATOM	54	N1 G	A	7	145.638	111.290	-4.848	1.00	55.52 A16S
ATOM	55	C6 G	A	7	144.471	111.650	-4.183	1.00	55.52 A16S
ATOM	56	O6 G	A	7	143.567	112.252	-4.787	1.00	55.52 A16S
ATOM	57	C5 G	A	7	144.507	111.252	-2.835	1.00	55.52 A16S
ATOM	58	N7 G	A	7	143.561	111.398	-1.834	1.00	55.52 A16S
ATOM	59	C8 G	A	7	144.123	110.868	-0.785	1.00	55.52 A16S
ATOM	60	C2* G	A	7	146.406	110.652	1.173	1.00	56.55 A16S
ATOM	61	O2* G	A	7	147.337	111.691	1.001	1.00	56.55 A16S
ATOM	62	C3* G	A	7	146.728	109.611	2.240	1.00	56.55 A16S
ATOM	63	O3* G	A	7	147.937	109.597	3.012	1.00	56.55 A16S
ATOM	64	P A	A	8	149.332	109.138	2.361	1.00	48.11 A16S
ATOM	65	O1P A	A	8	149.253	109.392	0.911	1.00	64.55 A16S
ATOM	66	O2P A	A	8	149.620	107.764	2.842	1.00	64.55 A16S
ATOM	67	O5* A	A	8	150.402	110.128	3.012	1.00	48.11 A16S
ATOM	68	C5* A	A	8	150.636	111.433	2.453	1.00	48.11 A16S
ATOM	69	C4* A	A	8	152.076	111.830	2.651	1.00	48.11 A16S
ATOM	70	O4* A	A	8	152.278	112.280	4.012	1.00	48.11 A16S



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ATOM	71	C1*	A	A	8	153.262	111.490	4.637	1.00	48.11	A16S
ATOM	72	N9	A	A	8	152.827	111.269	6.010	1.00	64.55	A16S
ATOM	73	C4	A	A	8	153.606	111.255	7.136	1.00	64.55	A16S
ATOM	74	N3	A	A	8	154.929	111.412	7.211	1.00	64.55	A16S
ATOM	75	C2	A	A	8	155.335	111.342	8.472	1.00	64.55	A16S
ATOM	76	N1	A	A	8	154.623	111.155	9.576	1.00	64.55	A16S
ATOM	77	C6	A	A	8	153.294	111.016	9.458	1.00	64.55	A16S
ATOM	78	N6	A	A	8	152.568	110.861	10.559	1.00	64.55	A16S
ATOM	79	C5	A	A	8	152.745	111.054	8.186	1.00	64.55	A16S
ATOM	80	N7	A	A	8	151.445	110.923	7.738	1.00	64.55	A16S
ATOM	81	C8	A	A	8	151.548	111.053	6.442	1.00	64.55	A16S
ATOM	82	C2*	A	A	8	153.369	110.206	3.817	1.00	48.11	A16S
ATOM	83	O2*	A	A	8	154.651	109.631	3.922	1.00	48.11	A16S
ATOM	84	C3*	A	A	8	153.075	110.704	2.408	1.00	48.11	A16S
ATOM	85	O3*	A	A	8	154.273	111.226	1.827	1.00	48.11	A16S
ATOM	86	P	G	A	9	154.455	111.221	0.228	1.00	52.26	A16S
ATOM	87	O1P	G	A	9	154.168	112.593	-0.284	1.00	51.11	A16S
ATOM	88	O2P	G	A	9	153.701	110.066	-0.318	1.00	51.11	A16S
ATOM	89	O5*	G	A	9	156.004	110.942	0.047	1.00	52.26	A16S
ATOM	90	C5*	G	A	9	156.970	111.786	0.674	1.00	52.26	A16S
ATOM	91	C4*	G	A	9	157.529	111.112	1.904	1.00	52.26	A16S
ATOM	92	O4*	G	A	9	156.846	109.859	2.169	1.00	52.26	A16S
ATOM	93	C1*	G	A	9	157.757	108.937	2.747	1.00	52.26	A16S
ATOM	94	N9	G	A	9	157.868	107.783	1.866	1.00	51.11	A16S
ATOM	95	C4	G	A	9	158.641	106.678	2.086	1.00	51.11	A16S
ATOM	96	N3	G	A	9	159.417	106.462	3.161	1.00	51.11	A16S
ATOM	97	C2	G	A	9	160.030	105.298	3.085	1.00	51.11	A16S
ATOM	98	N2	G	A	9	160.829	104.901	4.070	1.00	51.11	A16S
ATOM	99	N1	G	A	9	159.901	104.430	2.040	1.00	51.11	A16S
ATOM	100	C6	G	A	9	159.109	104.641	0.927	1.00	51.11	A16S
ATOM	101	O6	G	A	9	159.051	103.792	0.049	1.00	51.11	A16S
ATOM	102	C5	G	A	9	158.447	105.869	0.988	1.00	51.11	A16S
ATOM	103	N7	G	A	9	157.567	106.454	0.090	1.00	51.11	A16S
ATOM	104	C8	G	A	9	157.244	107.586	0.653	1.00	51.11	A16S
ATOM	105	C2*	G	A	9	159.099	109.647	2.892	1.00	52.26	A16S
ATOM	106	O2*	G	A	9	159.161	110.221	4.174	1.00	52.26	A16S
ATOM	107	C3*	G	A	9	158.990	110.723	1.826	1.00	52.26	A16S
ATOM	108	O3*	G	A	9	159.819	111.835	2.096	1.00	52.26	A16S
ATOM	109	P	A	A	10	161.222	111.958	1.339	1.00	51.30	A16S
ATOM	110	O1P	A	A	10	161.720	113.348	1.560	1.00	55.56	A16S
ATOM	111	O2P	A	A	10	161.026	111.461	-0.062	1.00	55.56	A16S
ATOM	112	O5*	A	A	10	162.118	110.900	2.126	1.00	51.30	A16S
ATOM	113	C5*	A	A	10	162.378	111.072	3.525	1.00	51.30	A16S
ATOM	114	C4*	A	A	10	163.193	109.920	4.065	1.00	51.30	A16S
ATOM	115	O4*	A	A	10	162.412	108.703	4.015	1.00	51.30	A16S
ATOM	116	C1*	A	A	10	163.253	107.612	3.713	1.00	51.30	A16S
ATOM	117	N9	A	A	10	162.841	107.101	2.411	1.00	55.56	A16S
ATOM	118	C4	A	A	10	163.083	105.845	1.923	1.00	55.56	A16S
ATOM	119	N3	A	A	10	163.742	104.849	2.537	1.00	55.56	A16S
ATOM	120	C2	A	A	10	163.760	103.762	1.769	1.00	55.56	A16S
ATOM	121	N1	A	A	10	163.238	103.575	0.550	1.00	55.56	A16S
ATOM	122	C6	A	A	10	162.590	104.605	-0.038	1.00	55.56	A16S
ATOM	123	N6	A	A	10	162.076	104.424	-1.255	1.00	55.56	A16S
ATOM	124	C5	A	A	10	162.497	105.809	0.673	1.00	55.56	A16S
ATOM	125	N7	A	A	10	161.904	107.024	0.373	1.00	55.56	A16S
ATOM	126	C8	A	A	10	162.138	107.757	1.432	1.00	55.56	A16S
ATOM	127	C2*	A	A	10	164.690	108.127	3.686	1.00	51.30	A16S
ATOM	128	O2*	A	A	10	165.270	107.996	4.968	1.00	51.30	A16S
ATOM	129	C3*	A	A	10	164.477	109.583	3.327	1.00	51.30	A16S
ATOM	130	O3*	A	A	10	165.556	110.362	3.783	1.00	51.30	A16S
ATOM	131	P	G	A	11	166.814	110.590	2.824	1.00	47.20	A16S
ATOM	132	O1P	G	A	11	167.698	111.589	3.493	1.00	50.65	A16S
ATOM	133	O2P	G	A	11	166.297	110.865	1.466	1.00	50.65	A16S
ATOM	134	O5*	G	A	11	167.533	109.169	2.821	1.00	47.20	A16S
ATOM	135	C5*	G	A	11	168.153	108.671	4.021	1.00	47.20	A16S
ATOM	136	C4*	G	A	11	168.794	107.330	3.777	1.00	47.20	A16S
ATOM	137	O4*	G	A	11	167.773	106.341	3.520	1.00	47.20	A16S
ATOM	138	C1*	G	A	11	168.247	105.403	2.571	1.00	47.20	A16S
ATOM	139	N9	G	A	11	167.405	105.498	1.383	1.00	50.65	A16S
ATOM	140	C4	G	A	11	167.225	104.524	0.431	1.00	50.65	A16S
ATOM	141	N3	G	A	11	167.810	103.308	0.421	1.00	50.65	A16S
ATOM	142	C2	G	A	11	167.445	102.592	-0.635	1.00	50.65	A16S
ATOM	143	N2	G	A	11	167.958	101.366	-0.810	1.00	50.65	A16S
ATOM	144	N1	G	A	11	166.563	103.026	-1.598	1.00	50.65	A16S
ATOM	145	C6	G	A	11	165.949	104.273	-1.617	1.00	50.65	A16S
ATOM	146	O6	G	A	11	165.181	104.571	-2.547	1.00	50.65	A16S
ATOM	147	C5	G	A	11	166.341	105.064	-0.485	1.00	50.65	A16S



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ATOM	148	N7	G	A	11	165.982	106.355	-0.118	1.00	50.65	A16S
ATOM	149	C8	G	A	11	166.638	106.569	0.992	1.00	50.65	A16S
ATOM	150	C2*	G	A	11	169.698	105.765	2.268	1.00	47.20	A16S
ATOM	151	O2*	G	A	11	170.555	105.113	3.181	1.00	47.20	A16S
ATOM	152	C3*	G	A	11	169.703	107.244	2.571	1.00	47.20	A16S
ATOM	153	O3*	G	A	11	171.002	107.677	2.855	1.00	47.20	A16S
ATOM	154	P	U	A	12	171.809	108.486	1.731	1.00	53.86	A16S
ATOM	155	O1P	U	A	12	173.052	108.969	2.379	1.00	55.82	A16S
ATOM	156	O2P	U	A	12	170.892	109.458	1.055	1.00	55.82	A16S
ATOM	157	O5*	U	A	12	172.196	107.365	0.678	1.00	53.86	A16S
ATOM	158	C5*	U	A	12	173.126	106.332	1.025	1.00	53.86	A16S
ATOM	159	C4*	U	A	12	173.236	105.333	-0.098	1.00	53.86	A16S
ATOM	160	O4*	U	A	12	171.985	104.610	-0.238	1.00	53.86	A16S
ATOM	161	C1*	U	A	12	171.752	104.321	-1.599	1.00	53.86	A16S
ATOM	162	N1	U	A	12	170.484	104.949	-1.995	1.00	55.82	A16S
ATOM	163	C6	U	A	12	170.025	106.088	-1.378	1.00	55.82	A16S
ATOM	164	C2	U	A	12	169.769	104.364	-3.024	1.00	55.82	A16S
ATOM	165	O2	U	A	12	170.112	103.327	-3.568	1.00	55.82	A16S
ATOM	166	N3	U	A	12	168.628	105.031	-3.388	1.00	55.82	A16S
ATOM	167	C4	U	A	12	168.126	106.185	-2.830	1.00	55.82	A16S
ATOM	168	O4	U	A	12	167.087	106.682	-3.287	1.00	55.82	A16S
ATOM	169	C5	U	A	12	168.902	106.706	-1.746	1.00	55.82	A16S
ATOM	170	C2*	U	A	12	172.957	104.833	-2.389	1.00	53.86	A16S
ATOM	171	O2*	U	A	12	173.892	103.780	-2.490	1.00	53.86	A16S
ATOM	172	C3*	U	A	12	173.494	105.920	-1.471	1.00	53.86	A16S
ATOM	173	O3*	U	A	12	174.878	106.179	-1.674	1.00	53.86	A16S
ATOM	174	P	U	A	13	175.321	107.479	-2.511	1.00	46.63	A16S
ATOM	175	O1P	U	A	13	176.459	108.166	-1.822	1.00	57.25	A16S
ATOM	176	O2P	U	A	13	174.098	108.248	-2.840	1.00	57.25	A16S
ATOM	177	O5*	U	A	13	175.891	106.877	-3.865	1.00	46.63	A16S
ATOM	178	C5*	U	A	13	175.031	106.203	-4.799	1.00	46.63	A16S
ATOM	179	C4*	U	A	13	175.839	105.703	-5.969	1.00	46.63	A16S
ATOM	180	O4*	U	A	13	174.928	105.177	-6.978	1.00	46.63	A16S
ATOM	181	C1*	U	A	13	175.172	105.830	-8.202	1.00	46.63	A16S
ATOM	182	N1	U	A	13	173.920	105.926	-8.966	1.00	57.25	A16S
ATOM	183	C6	U	A	13	173.138	107.041	-8.903	1.00	57.25	A16S
ATOM	184	C2	U	A	13	173.570	104.859	-9.774	1.00	57.25	A16S
ATOM	185	O2	U	A	13	174.224	103.830	-9.841	1.00	57.25	A16S
ATOM	186	N3	U	A	13	172.423	105.037	-10.505	1.00	57.25	A16S
ATOM	187	C4	U	A	13	171.605	106.151	-10.506	1.00	57.25	A16S
ATOM	188	O4	U	A	13	170.650	106.216	-11.288	1.00	57.25	A16S
ATOM	189	C5	U	A	13	172.025	107.188	-9.623	1.00	57.25	A16S
ATOM	190	C2*	U	A	13	175.820	107.169	-7.852	1.00	46.63	A16S
ATOM	191	O2*	U	A	13	176.597	107.660	-8.919	1.00	46.63	A16S
ATOM	192	C3*	U	A	13	176.666	106.796	-6.645	1.00	46.63	A16S
ATOM	193	O3*	U	A	13	177.932	106.301	-7.073	1.00	46.63	A16S
ATOM	194	P	U	A	14	179.286	106.876	-6.409	1.00	48.31	A16S
ATOM	195	O1P	U	A	14	180.420	106.186	-7.078	1.00	80.05	A16S
ATOM	196	O2P	U	A	14	179.157	106.805	-4.923	1.00	80.05	A16S
ATOM	197	O5*	U	A	14	179.339	108.411	-6.832	1.00	48.31	A16S
ATOM	198	C5*	U	A	14	179.573	108.770	-8.188	1.00	48.31	A16S
ATOM	199	C4*	U	A	14	179.777	110.254	-8.315	1.00	48.31	A16S
ATOM	200	O4*	U	A	14	178.516	110.951	-8.204	1.00	48.31	A16S
ATOM	201	C1*	U	A	14	178.721	112.196	-7.560	1.00	48.31	A16S
ATOM	202	N1	U	A	14	177.995	112.167	-6.280	1.00	80.05	A16S
ATOM	203	C6	U	A	14	177.777	110.983	-5.614	1.00	80.05	A16S
ATOM	204	C2	U	A	14	177.550	113.356	-5.761	1.00	80.05	A16S
ATOM	205	O2	U	A	14	177.715	114.426	-6.322	1.00	80.05	A16S
ATOM	206	N3	U	A	14	176.904	113.251	-4.553	1.00	80.05	A16S
ATOM	207	C4	U	A	14	176.661	112.096	-3.829	1.00	80.05	A16S
ATOM	208	O4	U	A	14	176.081	112.161	-2.736	1.00	80.05	A16S
ATOM	209	C5	U	A	14	177.145	110.910	-4.443	1.00	80.05	A16S
ATOM	210	C2*	U	A	14	180.232	112.359	-7.358	1.00	48.31	A16S
ATOM	211	O2*	U	A	14	180.823	113.023	-8.470	1.00	48.31	A16S
ATOM	212	C3*	U	A	14	180.687	110.911	-7.295	1.00	48.31	A16S
ATOM	213	O3*	U	A	14	182.047	110.815	-7.678	1.00	48.31	A16S
ATOM	214	P	G	A	15	183.172	110.629	-6.553	1.00	44.50	A16S
ATOM	215	O1P	G	A	15	184.454	110.313	-7.236	1.00	58.20	A16S
ATOM	216	O2P	G	A	15	182.607	109.660	-5.572	1.00	58.20	A16S
ATOM	217	O5*	G	A	15	183.306	112.082	-5.900	1.00	44.50	A16S
ATOM	218	C5*	G	A	15	183.955	112.253	-4.627	1.00	44.50	A16S
ATOM	219	C4*	G	A	15	183.988	113.708	-4.246	1.00	44.50	A16S
ATOM	220	O4*	G	A	15	184.861	114.424	-5.151	1.00	44.50	A16S
ATOM	221	C1*	G	A	15	184.306	115.695	-5.450	1.00	44.50	A16S
ATOM	222	N9	G	A	15	183.987	115.722	-6.879	1.00	58.20	A16S
ATOM	223	C4	G	A	15	183.409	116.752	-7.572	1.00	58.20	A16S
ATOM	224	N3	G	A	15	183.041	117.938	-7.059	1.00	58.20	A16S



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ATOM	225	C2	G	A	15	182.493	118.716	-7.970	1.00	58.20	A16S
ATOM	226	N2	G	A	15	182.076	119.949	-7.633	1.00	58.20	A16S
ATOM	227	N1	G	A	15	182.312	118.352	-9.282	1.00	58.20	A16S
ATOM	228	C6	G	A	15	182.680	117.133	-9.829	1.00	58.20	A16S
ATOM	229	O6	G	A	15	182.457	116.897	-11.024	1.00	58.20	A16S
ATOM	230	C5	G	A	15	183.279	116.296	-8.866	1.00	58.20	A16S
ATOM	231	N7	G	A	15	183.778	115.010	-8.988	1.00	58.20	A16S
ATOM	232	C8	G	A	15	184.189	114.710	-7.791	1.00	58.20	A16S
ATOM	233	C2*	G	A	15	183.072	115.871	-4.560	1.00	44.50	A16S
ATOM	234	O2*	G	A	15	183.465	116.530	-3.373	1.00	44.50	A16S
ATOM	235	C3*	G	A	15	182.654	114.424	-4.323	1.00	44.50	A16S
ATOM	236	O3*	G	A	15	181.907	114.237	-3.126	1.00	44.50	A16S
ATOM	237	P	A	A	16	180.403	113.664	-3.206	1.00	49.85	A16S
ATOM	238	O1P	A	A	16	180.001	113.311	-1.821	1.00	56.24	A16S
ATOM	239	O2P	A	A	16	180.298	112.622	-4.275	1.00	56.24	A16S
ATOM	240	O5*	A	A	16	179.556	114.947	-3.623	1.00	49.85	A16S
ATOM	241	C5*	A	A	16	179.394	116.011	-2.686	1.00	49.85	A16S
ATOM	242	C4*	A	A	16	179.048	117.302	-3.382	1.00	49.85	A16S
ATOM	243	O4*	A	A	16	180.059	117.639	-4.366	1.00	49.85	A16S
ATOM	244	C1*	A	A	16	179.454	118.301	-5.461	1.00	49.85	A16S
ATOM	245	N9	A	A	16	179.619	117.458	-6.644	1.00	56.24	A16S
ATOM	246	C4	A	A	16	179.236	117.777	-7.925	1.00	56.24	A16S
ATOM	247	N3	A	A	16	178.667	118.922	-8.347	1.00	56.24	A16S
ATOM	248	C2	A	A	16	178.424	118.867	-9.652	1.00	56.24	A16S
ATOM	249	N1	A	A	16	178.668	117.873	-10.518	1.00	56.24	A16S
ATOM	250	C6	A	A	16	179.233	116.740	-10.056	1.00	56.24	A16S
ATOM	251	N6	A	A	16	179.469	115.750	-10.912	1.00	56.24	A16S
ATOM	252	C5	A	A	16	179.537	116.671	-8.694	1.00	56.24	A16S
ATOM	253	N7	A	A	16	180.108	115.675	-7.917	1.00	56.24	A16S
ATOM	254	C8	A	A	16	180.143	116.193	-6.715	1.00	56.24	A16S
ATOM	255	C2*	A	A	16	177.968	118.468	-5.130	1.00	49.85	A16S
ATOM	256	O2*	A	A	16	177.735	119.742	-4.561	1.00	49.85	A16S
ATOM	257	C3*	A	A	16	177.744	117.323	-4.150	1.00	49.85	A16S
ATOM	258	O3*	A	A	16	176.658	117.573	-3.287	1.00	49.85	A16S
ATOM	259	P	U	A	17	175.228	116.958	-3.630	1.00	42.68	A16S
ATOM	260	O1P	U	A	17	174.267	117.482	-2.624	1.00	47.12	A16S
ATOM	261	O2P	U	A	17	175.400	115.495	-3.772	1.00	47.12	A16S
ATOM	262	O5*	U	A	17	174.902	117.609	-5.045	1.00	42.68	A16S
ATOM	263	C5*	U	A	17	174.800	119.025	-5.174	1.00	42.68	A16S
ATOM	264	C4*	U	A	17	174.156	119.387	-6.481	1.00	42.68	A16S
ATOM	265	O4*	U	A	17	175.099	119.250	-7.568	1.00	42.68	A16S
ATOM	266	C1*	U	A	17	174.406	118.894	-8.754	1.00	42.68	A16S
ATOM	267	N1	U	A	17	174.903	117.589	-9.235	1.00	47.12	A16S
ATOM	268	C6	U	A	17	175.540	116.723	-8.386	1.00	47.12	A16S
ATOM	269	C2	U	A	17	174.713	117.251	-10.580	1.00	47.12	A16S
ATOM	270	O2	U	A	17	174.131	117.964	-11.372	1.00	47.12	A16S
ATOM	271	N3	U	A	17	175.221	116.037	-10.953	1.00	47.12	A16S
ATOM	272	C4	U	A	17	175.865	115.135	-10.148	1.00	47.12	A16S
ATOM	273	O4	U	A	17	176.225	114.061	-10.613	1.00	47.12	A16S
ATOM	274	C5	U	A	17	176.011	115.541	-8.785	1.00	47.12	A16S
ATOM	275	C2*	U	A	17	172.920	118.855	-8.407	1.00	42.68	A16S
ATOM	276	O2*	U	A	17	172.383	120.139	-8.636	1.00	42.68	A16S
ATOM	277	C3*	U	A	17	172.965	118.559	-6.921	1.00	42.68	A16S
ATOM	278	O3*	U	A	17	171.760	118.934	-6.288	1.00	42.68	A16S
ATOM	279	P	C	A	18	170.575	117.852	-6.143	1.00	41.24	A16S
ATOM	280	O1P	C	A	18	169.579	118.468	-5.241	1.00	37.87	A16S
ATOM	281	O2P	C	A	18	171.129	116.502	-5.812	1.00	37.87	A16S
ATOM	282	O5*	C	A	18	169.942	117.830	-7.593	1.00	41.24	A16S
ATOM	283	C5*	C	A	18	169.357	119.015	-8.105	1.00	41.24	A16S
ATOM	284	C4*	C	A	18	168.922	118.805	-9.517	1.00	41.24	A16S
ATOM	285	O4*	C	A	18	170.079	118.776	-10.381	1.00	41.24	A16S
ATOM	286	C1*	C	A	18	169.886	117.819	-11.399	1.00	41.24	A16S
ATOM	287	N1	C	A	18	170.835	116.721	-11.160	1.00	37.87	A16S
ATOM	288	C6	C	A	18	171.349	116.497	-9.914	1.00	37.87	A16S
ATOM	289	C2	C	A	18	171.183	115.886	-12.226	1.00	37.87	A16S
ATOM	290	O2	C	A	18	170.764	116.160	-13.359	1.00	37.87	A16S
ATOM	291	N3	C	A	18	171.977	114.814	-11.996	1.00	37.87	A16S
ATOM	292	C4	C	A	18	172.450	114.593	-10.770	1.00	37.87	A16S
ATOM	293	N4	C	A	18	173.221	113.520	-10.577	1.00	37.87	A16S
ATOM	294	C5	C	A	18	172.152	115.461	-9.678	1.00	37.87	A16S
ATOM	295	C2*	C	A	18	168.445	117.325	-11.270	1.00	41.24	A16S
ATOM	296	O2*	C	A	18	167.590	118.176	-12.013	1.00	41.24	A16S
ATOM	297	C3*	C	A	18	168.213	117.494	-9.781	1.00	41.24	A16S
ATOM	298	O3*	C	A	18	166.850	117.564	-9.433	1.00	41.24	A16S
ATOM	299	P	C	A	19	166.070	116.227	-9.013	1.00	37.60	A16S
ATOM	300	O1P	C	A	19	164.682	116.679	-8.714	1.00	47.62	A16S
ATOM	301	O2P	C	A	19	166.841	115.476	-7.988	1.00	47.62	A16S



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ATOM	302	O5*	C	A	19	166.035	115.369	-10.353	1.00	37.60	A16S
ATOM	303	C5*	C	A	19	165.323	115.863	-11.483	1.00	37.60	A16S
ATOM	304	C4*	C	A	19	165.587	115.020	-12.695	1.00	37.60	A16S
ATOM	305	O4*	C	A	19	167.000	115.005	-12.999	1.00	37.60	A16S
ATOM	306	C1*	C	A	19	167.331	113.796	-13.649	1.00	37.60	A16S
ATOM	307	N1	C	A	19	168.350	113.089	-12.860	1.00	47.62	A16S
ATOM	308	C6	C	A	19	168.528	113.350	-11.534	1.00	47.62	A16S
ATOM	309	C2	C	A	19	169.128	112.126	-13.493	1.00	47.62	A16S
ATOM	310	O2	C	A	19	168.979	111.945	-14.703	1.00	47.62	A16S
ATOM	311	N3	C	A	19	170.028	111.420	-12.775	1.00	47.62	A16S
ATOM	312	C4	C	A	19	170.170	111.664	-11.476	1.00	47.62	A16S
ATOM	313	N4	C	A	19	171.031	110.923	-10.797	1.00	47.62	A16S
ATOM	314	C5	C	A	19	169.422	112.671	-10.814	1.00	47.62	A16S
ATOM	315	C2*	C	A	19	166.046	112.981	-13.770	1.00	37.60	A16S
ATOM	316	O2*	C	A	19	165.467	113.266	-15.031	1.00	37.60	A16S
ATOM	317	C3*	C	A	19	165.210	113.560	-12.637	1.00	37.60	A16S
ATOM	318	O3*	C	A	19	163.840	113.390	-12.905	1.00	37.60	A16S
ATOM	319	P	U	A	20	163.132	112.017	-12.508	1.00	41.09	A16S
ATOM	320	O1P	U	A	20	161.751	112.082	-13.042	1.00	43.86	A16S
ATOM	321	O2P	U	A	20	163.370	111.809	-11.055	1.00	43.86	A16S
ATOM	322	O5*	U	A	20	163.931	110.900	-13.309	1.00	41.09	A16S
ATOM	323	C5*	U	A	20	163.767	110.771	-14.720	1.00	41.09	A16S
ATOM	324	C4*	U	A	20	164.628	109.654	-15.249	1.00	41.09	A16S
ATOM	325	O4*	U	A	20	166.019	109.946	-14.977	1.00	41.09	A16S
ATOM	326	C1*	U	A	20	166.706	108.746	-14.678	1.00	41.09	A16S
ATOM	327	N1	U	A	20	167.233	108.859	-13.314	1.00	43.86	A16S
ATOM	328	C6	U	A	20	166.889	109.926	-12.519	1.00	43.86	A16S
ATOM	329	C2	U	A	20	168.082	107.867	-12.856	1.00	43.86	A16S
ATOM	330	O2	U	A	20	168.423	106.918	-13.536	1.00	43.86	A16S
ATOM	331	N3	U	A	20	168.521	108.038	-11.568	1.00	43.86	A16S
ATOM	332	C4	U	A	20	168.209	109.086	-10.718	1.00	43.86	A16S
ATOM	333	O4	U	A	20	168.687	109.113	-9.582	1.00	43.86	A16S
ATOM	334	C5	U	A	20	167.336	110.071	-11.277	1.00	43.86	A16S
ATOM	335	C2*	U	A	20	165.724	107.590	-14.854	1.00	41.09	A16S
ATOM	336	O2*	U	A	20	165.909	107.137	-16.174	1.00	41.09	A16S
ATOM	337	C3*	U	A	20	164.383	108.286	-14.643	1.00	41.09	A16S
ATOM	338	O3*	U	A	20	163.310	107.658	-15.339	1.00	41.09	A16S
ATOM	339	P	G	A	21	162.276	106.720	-14.542	1.00	38.25	A16S
ATOM	340	O1P	G	A	21	161.428	106.032	-15.554	1.00	56.02	A16S
ATOM	341	O2P	G	A	21	161.628	107.501	-13.477	1.00	56.02	A16S
ATOM	342	O5*	G	A	21	163.251	105.659	-13.876	1.00	38.25	A16S
ATOM	343	C5*	G	A	21	163.942	104.740	-14.718	1.00	38.25	A16S
ATOM	344	C4*	G	A	21	164.929	103.910	-13.941	1.00	38.25	A16S
ATOM	345	O4*	G	A	21	166.055	104.713	-13.522	1.00	38.25	A16S
ATOM	346	C1*	G	A	21	166.623	104.146	-12.365	1.00	38.25	A16S
ATOM	347	N9	G	A	21	166.542	105.138	-11.310	1.00	56.02	A16S
ATOM	348	C4	G	A	21	167.322	105.209	-10.186	1.00	56.02	A16S
ATOM	349	N3	G	A	21	168.341	104.382	-9.871	1.00	56.02	A16S
ATOM	350	C2	G	A	21	168.913	104.717	-8.726	1.00	56.02	A16S
ATOM	351	N2	G	A	21	169.973	104.034	-8.277	1.00	56.02	A16S
ATOM	352	N1	G	A	21	168.496	105.757	-7.934	1.00	56.02	A16S
ATOM	353	C6	G	A	21	167.433	106.613	-8.229	1.00	56.02	A16S
ATOM	354	O6	G	A	21	167.113	107.521	-7.426	1.00	56.02	A16S
ATOM	355	C5	G	A	21	166.837	106.285	-9.477	1.00	56.02	A16S
ATOM	356	N7	G	A	21	165.789	106.888	-10.156	1.00	56.02	A16S
ATOM	357	C8	G	A	21	165.652	106.176	-11.236	1.00	56.02	A16S
ATOM	358	C2*	G	A	21	165.816	102.891	-12.023	1.00	38.25	A16S
ATOM	359	O2*	G	A	21	166.459	101.770	-12.612	1.00	38.25	A16S
ATOM	360	C3*	G	A	21	164.477	103.183	-12.688	1.00	38.25	A16S
ATOM	361	O3*	G	A	21	163.782	101.978	-13.006	1.00	38.25	A16S
ATOM	362	P	G	A	22	162.681	101.387	-11.987	1.00	49.17	A16S
ATOM	363	O1P	G	A	22	161.721	100.553	-12.776	1.00	43.51	A16S
ATOM	364	O2P	G	A	22	162.158	102.458	-11.091	1.00	43.51	A16S
ATOM	365	O5*	G	A	22	163.518	100.370	-11.111	1.00	49.17	A16S
ATOM	366	C5*	G	A	22	164.084	99.233	-11.726	1.00	49.17	A16S
ATOM	367	C4*	G	A	22	165.230	98.740	-10.913	1.00	49.17	A16S
ATOM	368	O4*	G	A	22	166.209	99.793	-10.797	1.00	49.17	A16S
ATOM	369	C1*	G	A	22	166.905	99.642	-9.582	1.00	49.17	A16S
ATOM	370	N9	G	A	22	166.734	100.841	-8.786	1.00	43.51	A16S
ATOM	371	C4	G	A	22	167.582	101.243	-7.809	1.00	43.51	A16S
ATOM	372	N3	G	A	22	168.717	100.616	-7.459	1.00	43.51	A16S
ATOM	373	C2	G	A	22	169.317	101.218	-6.464	1.00	43.51	A16S
ATOM	374	N2	G	A	22	170.466	100.737	-6.006	1.00	43.51	A16S
ATOM	375	N1	G	A	22	168.836	102.342	-5.851	1.00	43.51	A16S
ATOM	376	C6	G	A	22	167.670	103.007	-6.204	1.00	43.51	A16S
ATOM	377	O6	G	A	22	167.331	104.024	-5.595	1.00	43.51	A16S
ATOM	378	C5	G	A	22	167.021	102.375	-7.276	1.00	43.51	A16S



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ATOM	379	N7	G	A	22	165.843	102.698	-7.932	1.00	43.51	A16S
ATOM	380	C8	G	A	22	165.714	101.757	-8.825	1.00	43.51	A16S
ATOM	381	C2*	G	A	22	166.306	98.453	-8.836	1.00	49.17	A16S
ATOM	382	O2*	G	A	22	167.081	97.301	-9.106	1.00	49.17	A16S
ATOM	383	C3*	G	A	22	164.932	98.363	-9.472	1.00	49.17	A16S
ATOM	384	O3*	G	A	22	164.409	97.052	-9.365	1.00	49.17	A16S
ATOM	385	P	C	A	23	163.530	96.661	-8.089	1.00	35.98	A16S
ATOM	386	O1P	C	A	23	163.099	95.237	-8.242	1.00	46.72	A16S
ATOM	387	O2P	C	A	23	162.509	97.733	-7.903	1.00	46.72	A16S
ATOM	388	O5*	C	A	23	164.583	96.729	-6.903	1.00	35.98	A16S
ATOM	389	C5*	C	A	23	165.685	95.823	-6.895	1.00	35.98	A16S
ATOM	390	C4*	C	A	23	166.615	96.128	-5.760	1.00	35.98	A16S
ATOM	391	O4*	C	A	23	167.228	97.418	-5.959	1.00	35.98	A16S
ATOM	392	C1*	C	A	23	167.408	98.050	-4.708	1.00	35.98	A16S
ATOM	393	N1	C	A	23	166.607	99.291	-4.690	1.00	46.72	A16S
ATOM	394	C6	C	A	23	165.616	99.497	-5.606	1.00	46.72	A16S
ATOM	395	C2	C	A	23	166.880	100.257	-3.722	1.00	46.72	A16S
ATOM	396	O2	C	A	23	167.778	100.046	-2.898	1.00	46.72	A16S
ATOM	397	N3	C	A	23	166.163	101.392	-3.705	1.00	46.72	A16S
ATOM	398	C4	C	A	23	165.204	101.588	-4.607	1.00	46.72	A16S
ATOM	399	N4	C	A	23	164.519	102.745	-4.560	1.00	46.72	A16S
ATOM	400	C5	C	A	23	164.899	100.619	-5.600	1.00	46.72	A16S
ATOM	401	C2*	C	A	23	166.974	97.057	-3.635	1.00	35.98	A16S
ATOM	402	O2*	C	A	23	168.113	96.293	-3.301	1.00	35.98	A16S
ATOM	403	C3*	C	A	23	165.971	96.216	-4.397	1.00	35.98	A16S
ATOM	404	O3*	C	A	23	165.831	94.932	-3.840	1.00	35.98	A16S
ATOM	405	P	U	A	24	164.622	94.651	-2.841	1.00	46.60	A16S
ATOM	406	O1P	U	A	24	164.660	93.227	-2.440	1.00	57.13	A16S
ATOM	407	O2P	U	A	24	163.401	95.200	-3.494	1.00	57.13	A16S
ATOM	408	O5*	U	A	24	165.005	95.552	-1.588	1.00	46.60	A16S
ATOM	409	C5*	U	A	24	166.236	95.332	-0.893	1.00	46.60	A16S
ATOM	410	C4*	U	A	24	166.384	96.311	0.244	1.00	46.60	A16S
ATOM	411	O4*	U	A	24	166.725	97.626	-0.271	1.00	46.60	A16S
ATOM	412	C1*	U	A	24	166.119	98.629	0.532	1.00	46.60	A16S
ATOM	413	N1	U	A	24	165.173	99.393	-0.299	1.00	57.13	A16S
ATOM	414	C6	U	A	24	164.689	98.895	-1.485	1.00	57.13	A16S
ATOM	415	C2	U	A	24	164.759	100.631	0.170	1.00	57.13	A16S
ATOM	416	O2	U	A	24	165.199	101.126	1.192	1.00	57.13	A16S
ATOM	417	N3	U	A	24	163.816	101.267	-0.606	1.00	57.13	A16S
ATOM	418	C4	U	A	24	163.262	100.808	-1.787	1.00	57.13	A16S
ATOM	419	O4	U	A	24	162.350	101.445	-2.326	1.00	57.13	A16S
ATOM	420	C5	U	A	24	163.774	99.541	-2.225	1.00	57.13	A16S
ATOM	421	C2*	U	A	24	165.400	97.921	1.683	1.00	46.60	A16S
ATOM	422	O2*	U	A	24	166.247	97.881	2.813	1.00	46.60	A16S
ATOM	423	C3*	U	A	24	165.136	96.547	1.077	1.00	46.60	A16S
ATOM	424	O3*	U	A	24	164.875	95.529	2.033	1.00	46.60	A16S
ATOM	425	P	C	A	25	163.354	95.258	2.481	1.00	51.50	A16S
ATOM	426	O1P	C	A	25	163.226	93.924	3.112	1.00	47.18	A16S
ATOM	427	O2P	C	A	25	162.476	95.597	1.338	1.00	47.18	A16S
ATOM	428	O5*	C	A	25	163.135	96.364	3.606	1.00	51.50	A16S
ATOM	429	C5*	C	A	25	164.067	96.488	4.693	1.00	51.50	A16S
ATOM	430	C4*	C	A	25	163.817	97.761	5.464	1.00	51.50	A16S
ATOM	431	O4*	C	A	25	164.157	98.903	4.639	1.00	51.50	A16S
ATOM	432	C1*	C	A	25	163.278	99.976	4.931	1.00	51.50	A16S
ATOM	433	N1	C	A	25	162.526	100.313	3.701	1.00	47.18	A16S
ATOM	434	C6	C	A	25	162.405	99.411	2.679	1.00	47.18	A16S
ATOM	435	C2	C	A	25	161.933	101.578	3.596	1.00	47.18	A16S
ATOM	436	O2	C	A	25	162.045	102.381	4.549	1.00	47.18	A16S
ATOM	437	N3	C	A	25	161.252	101.891	2.467	1.00	47.18	A16S
ATOM	438	C4	C	A	25	161.146	101.000	1.481	1.00	47.18	A16S
ATOM	439	N4	C	A	25	160.468	101.347	0.394	1.00	47.18	A16S
ATOM	440	C5	C	A	25	161.731	99.711	1.568	1.00	47.18	A16S
ATOM	441	C2*	C	A	25	162.369	99.532	6.079	1.00	51.50	A16S
ATOM	442	O2*	C	A	25	162.941	99.935	7.310	1.00	51.50	A16S
ATOM	443	C3*	C	A	25	162.387	98.021	5.908	1.00	51.50	A16S
ATOM	444	O3*	C	A	25	162.068	97.347	7.109	1.00	51.50	A16S
ATOM	445	P	A	A	26	160.557	96.876	7.375	1.00	57.71	A16S
ATOM	446	O1P	A	A	26	160.579	95.861	8.446	1.00	52.17	A16S
ATOM	447	O2P	A	A	26	159.898	96.551	6.094	1.00	52.17	A16S
ATOM	448	O5*	A	A	26	159.886	98.177	7.986	1.00	57.71	A16S
ATOM	449	C5*	A	A	26	160.443	98.784	9.155	1.00	57.71	A16S
ATOM	450	C4*	A	A	26	159.811	100.132	9.405	1.00	57.71	A16S
ATOM	451	O4*	A	A	26	160.144	101.041	8.331	1.00	57.71	A16S
ATOM	452	C1*	A	A	26	159.075	101.935	8.124	1.00	57.71	A16S
ATOM	453	N9	A	A	26	158.645	101.798	6.746	1.00	52.17	A16S
ATOM	454	C4	A	A	26	158.212	102.818	5.950	1.00	52.17	A16S
ATOM	455	N3	A	A	26	158.085	104.108	6.290	1.00	52.17	A16S



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ATOM	456	C2	A	A	26	157.648	104.818	5.254	1.00	52.17	A16S
ATOM	457	N1	A	A	26	157.352	104.411	4.011	1.00	52.17	A16S
ATOM	458	C6	A	A	26	157.501	103.102	3.710	1.00	52.17	A16S
ATOM	459	N6	A	A	26	157.221	102.689	2.477	1.00	52.17	A16S
ATOM	460	C5	A	A	26	157.948	102.249	4.722	1.00	52.17	A16S
ATOM	461	N7	A	A	26	158.197	100.886	4.750	1.00	52.17	A16S
ATOM	462	C8	A	A	26	158.604	100.670	5.973	1.00	52.17	A16S
ATOM	463	C2*	A	A	26	157.979	101.615	9.133	1.00	57.71	A16S
ATOM	464	O2*	A	A	26	158.175	102.495	10.216	1.00	57.71	A16S
ATOM	465	C3*	A	A	26	158.296	100.167	9.493	1.00	57.71	A16S
ATOM	466	O3*	A	A	26	157.898	99.863	10.821	1.00	57.71	A16S
ATOM	467	P	G	A	27	156.653	98.886	11.079	1.00	49.47	A16S
ATOM	468	O1P	G	A	27	156.303	99.107	12.508	1.00	48.86	A16S
ATOM	469	O2P	G	A	27	156.977	97.519	10.603	1.00	48.86	A16S
ATOM	470	O5*	G	A	27	155.491	99.469	10.155	1.00	49.47	A16S
ATOM	471	C5*	G	A	27	154.717	100.617	10.562	1.00	49.47	A16S
ATOM	472	C4*	G	A	27	153.359	100.576	9.906	1.00	49.47	A16S
ATOM	473	O4*	G	A	27	153.539	100.643	8.464	1.00	49.47	A16S
ATOM	474	C1*	G	A	27	152.581	99.817	7.819	1.00	49.47	A16S
ATOM	475	N9	G	A	27	153.281	98.750	7.098	1.00	48.86	A16S
ATOM	476	C4	G	A	27	152.760	97.931	6.109	1.00	48.86	A16S
ATOM	477	N3	G	A	27	151.519	98.008	5.577	1.00	48.86	A16S
ATOM	478	C2	G	A	27	151.300	97.055	4.679	1.00	48.86	A16S
ATOM	479	N2	G	A	27	150.113	96.993	4.040	1.00	48.86	A16S
ATOM	480	N1	G	A	27	152.225	96.096	4.339	1.00	48.86	A16S
ATOM	481	C6	G	A	27	153.504	95.997	4.878	1.00	48.86	A16S
ATOM	482	O6	G	A	27	154.252	95.083	4.521	1.00	48.86	A16S
ATOM	483	C5	G	A	27	153.756	97.023	5.826	1.00	48.86	A16S
ATOM	484	N7	G	A	27	154.893	97.290	6.574	1.00	48.86	A16S
ATOM	485	C8	G	A	27	154.570	98.324	7.304	1.00	48.86	A16S
ATOM	486	C2*	G	A	27	151.671	99.246	8.908	1.00	49.47	A16S
ATOM	487	O2*	G	A	27	150.559	100.085	9.088	1.00	49.47	A16S
ATOM	488	C3*	G	A	27	152.576	99.291	10.126	1.00	49.47	A16S
ATOM	489	O3*	G	A	27	151.831	99.272	11.333	1.00	49.47	A16S
ATOM	490	P	G	A	28	151.476	97.854	12.030	1.00	46.44	A16S
ATOM	491	O1P	G	A	28	150.843	98.202	13.319	1.00	48.20	A16S
ATOM	492	O2P	G	A	28	152.669	96.973	12.030	1.00	48.20	A16S
ATOM	493	O5*	G	A	28	150.358	97.207	11.091	1.00	46.44	A16S
ATOM	494	C5*	G	A	28	149.138	97.925	10.836	1.00	46.44	A16S
ATOM	495	C4*	G	A	28	148.303	97.240	9.780	1.00	46.44	A16S
ATOM	496	O4*	G	A	28	148.896	97.396	8.465	1.00	46.44	A16S
ATOM	497	C1*	G	A	28	148.601	96.255	7.671	1.00	46.44	A16S
ATOM	498	N9	G	A	28	149.846	95.535	7.418	1.00	48.20	A16S
ATOM	499	C4	G	A	28	150.024	94.467	6.565	1.00	48.20	A16S
ATOM	500	N3	G	A	28	149.092	93.935	5.749	1.00	48.20	A16S
ATOM	501	C2	G	A	28	149.571	92.918	5.052	1.00	48.20	A16S
ATOM	502	N2	G	A	28	148.799	92.303	4.153	1.00	48.20	A16S
ATOM	503	N1	G	A	28	150.846	92.438	5.178	1.00	48.20	A16S
ATOM	504	C6	G	A	28	151.814	92.962	6.026	1.00	48.20	A16S
ATOM	505	O6	G	A	28	152.930	92.441	6.085	1.00	48.20	A16S
ATOM	506	C5	G	A	28	151.332	94.072	6.743	1.00	48.20	A16S
ATOM	507	N7	G	A	28	151.976	94.891	7.656	1.00	48.20	A16S
ATOM	508	C8	G	A	28	151.061	95.749	8.022	1.00	48.20	A16S
ATOM	509	C2*	G	A	28	147.678	95.370	8.505	1.00	46.44	A16S
ATOM	510	O2*	G	A	28	146.332	95.747	8.285	1.00	46.44	A16S
ATOM	511	C3*	G	A	28	148.092	95.746	9.913	1.00	46.44	A16S
ATOM	512	O3*	G	A	28	147.071	95.405	10.813	1.00	46.44	A16S
ATOM	513	P	G	A	29	147.156	94.005	11.582	1.00	56.68	A16S
ATOM	514	O1P	G	A	29	145.965	93.910	12.471	1.00	58.20	A16S
ATOM	515	O2P	G	A	29	148.532	93.906	12.159	1.00	58.20	A16S
ATOM	516	O5*	G	A	29	147.023	92.912	10.437	1.00	56.68	A16S
ATOM	517	C5*	G	A	29	145.815	92.792	9.694	1.00	56.68	A16S
ATOM	518	C4*	G	A	29	145.930	91.684	8.680	1.00	56.68	A16S
ATOM	519	O4*	G	A	29	146.998	91.984	7.750	1.00	56.68	A16S
ATOM	520	C1*	G	A	29	147.561	90.777	7.271	1.00	56.68	A16S
ATOM	521	N9	G	A	29	148.990	90.765	7.562	1.00	58.20	A16S
ATOM	522	C4	G	A	29	149.916	89.926	6.994	1.00	58.20	A16S
ATOM	523	N3	G	A	29	149.669	89.013	6.039	1.00	58.20	A16S
ATOM	524	C2	G	A	29	150.751	88.342	5.703	1.00	58.20	A16S
ATOM	525	N2	G	A	29	150.677	87.418	4.737	1.00	58.20	A16S
ATOM	526	N1	G	A	29	151.981	88.529	6.275	1.00	58.20	A16S
ATOM	527	C6	G	A	29	152.268	89.460	7.262	1.00	58.20	A16S
ATOM	528	O6	G	A	29	153.427	89.541	7.722	1.00	58.20	A16S
ATOM	529	C5	G	A	29	151.104	90.215	7.618	1.00	58.20	A16S
ATOM	530	N7	G	A	29	150.937	91.244	8.537	1.00	58.20	A16S
ATOM	531	C8	G	A	29	149.669	91.541	8.463	1.00	58.20	A16S
ATOM	532	C2*	G	A	29	146.841	89.619	7.961	1.00	56.68	A16S



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ATOM	533	O2*	G	A	29	145.848	89.107	7.092	1.00	56.68	A16S
ATOM	534	C3*	G	A	29	146.267	90.298	9.199	1.00	56.68	A16S
ATOM	535	O3*	G	A	29	145.113	89.620	9.662	1.00	56.68	A16S
ATOM	536	P	U	A	30	145.268	88.419	10.712	1.00	69.09	A16S
ATOM	537	O1P	U	A	30	143.888	87.971	11.013	1.00	58.13	A16S
ATOM	538	O2P	U	A	30	146.160	88.869	11.819	1.00	58.13	A16S
ATOM	539	O5*	U	A	30	146.002	87.257	9.898	1.00	69.09	A16S
ATOM	540	C5*	U	A	30	145.292	86.442	8.926	1.00	69.09	A16S
ATOM	541	C4*	U	A	30	146.174	85.299	8.455	1.00	69.09	A16S
ATOM	542	O4*	U	A	30	147.397	85.880	7.973	1.00	69.09	A16S
ATOM	543	C1*	U	A	30	148.464	84.997	8.220	1.00	69.09	A16S
ATOM	544	N1	U	A	30	149.622	85.757	8.695	1.00	58.13	A16S
ATOM	545	C6	U	A	30	149.486	86.962	9.338	1.00	58.13	A16S
ATOM	546	C2	U	A	30	150.867	85.220	8.447	1.00	58.13	A16S
ATOM	547	O2	U	A	30	151.025	84.134	7.891	1.00	58.13	A16S
ATOM	548	N3	U	A	30	151.919	85.996	8.868	1.00	58.13	A16S
ATOM	549	C4	U	A	30	151.851	87.219	9.492	1.00	58.13	A16S
ATOM	550	O4	U	A	30	152.887	87.834	9.728	1.00	58.13	A16S
ATOM	551	C5	U	A	30	150.531	87.692	9.730	1.00	58.13	A16S
ATOM	552	C2*	U	A	30	147.992	83.851	9.109	1.00	69.09	A16S
ATOM	553	O2*	U	A	30	147.993	82.656	8.348	1.00	69.09	A16S
ATOM	554	C3*	U	A	30	146.605	84.316	9.545	1.00	69.09	A16S
ATOM	555	O3*	U	A	30	145.788	83.131	9.619	1.00	69.09	A16S
ATOM	556	P	G	A	31	144.842	82.682	8.377	1.00	56.21	A16S
ATOM	557	O1P	G	A	31	145.691	82.371	7.193	1.00	64.81	A16S
ATOM	558	O2P	G	A	31	143.706	83.639	8.240	1.00	64.81	A16S
ATOM	559	O5*	G	A	31	144.235	81.302	8.887	1.00	56.21	A16S
ATOM	560	C5*	G	A	31	143.627	81.221	10.186	1.00	56.21	A16S
ATOM	561	C4*	G	A	31	143.998	79.928	10.860	1.00	56.21	A16S
ATOM	562	O4*	G	A	31	143.634	78.846	9.968	1.00	56.21	A16S
ATOM	563	C1*	G	A	31	144.754	78.030	9.722	1.00	56.21	A16S
ATOM	564	N9	G	A	31	144.694	77.638	8.321	1.00	64.81	A16S
ATOM	565	C4	G	A	31	144.473	76.380	7.832	1.00	64.81	A16S
ATOM	566	N3	G	A	31	144.289	75.269	8.565	1.00	64.81	A16S
ATOM	567	C2	G	A	31	144.087	74.207	7.805	1.00	64.81	A16S
ATOM	568	N2	G	A	31	143.884	73.004	8.369	1.00	64.81	A16S
ATOM	569	N1	G	A	31	144.073	74.241	6.435	1.00	64.81	A16S
ATOM	570	C6	G	A	31	144.278	75.375	5.664	1.00	64.81	A16S
ATOM	571	O6	G	A	31	144.279	75.291	4.433	1.00	64.81	A16S
ATOM	572	C5	G	A	31	144.479	76.514	6.463	1.00	64.81	A16S
ATOM	573	N7	G	A	31	144.700	77.830	6.097	1.00	64.81	A16S
ATOM	574	C8	G	A	31	144.826	78.460	7.231	1.00	64.81	A16S
ATOM	575	C2*	G	A	31	145.987	78.854	10.089	1.00	56.21	A16S
ATOM	576	O2*	G	A	31	147.008	78.000	10.548	1.00	56.21	A16S
ATOM	577	C3*	G	A	31	145.464	79.729	11.220	1.00	56.21	A16S
ATOM	578	O3*	G	A	31	145.538	78.975	12.426	1.00	56.21	A16S
ATOM	579	P	A	A	32	146.300	79.573	13.711	1.00	56.19	A16S
ATOM	580	O1P	A	A	32	146.630	78.425	14.565	1.00	56.19	A16S
ATOM	581	O2P	A	A	32	145.489	80.686	14.277	1.00	56.19	A16S
ATOM	582	O5*	A	A	32	147.666	80.147	13.128	1.00	56.19	A16S
ATOM	583	C5*	A	A	32	148.932	79.664	13.591	1.00	56.19	A16S
ATOM	584	C4*	A	A	32	149.698	79.032	12.451	1.00	56.19	A16S
ATOM	585	O4*	A	A	32	149.858	79.996	11.377	1.00	56.19	A16S
ATOM	586	C1*	A	A	32	151.167	79.905	10.846	1.00	56.19	A16S
ATOM	587	N9	A	A	32	151.852	81.170	11.133	1.00	56.19	A16S
ATOM	588	C4	A	A	32	153.126	81.558	10.770	1.00	56.19	A16S
ATOM	589	N3	A	A	32	154.035	80.855	10.074	1.00	56.19	A16S
ATOM	590	C2	A	A	32	155.155	81.562	9.918	1.00	56.19	A16S
ATOM	591	N1	A	A	32	155.445	82.801	10.336	1.00	56.19	A16S
ATOM	592	C6	A	A	32	154.506	83.483	11.020	1.00	56.19	A16S
ATOM	593	N6	A	A	32	154.776	84.729	11.414	1.00	56.19	A16S
ATOM	594	C5	A	A	32	153.285	82.841	11.268	1.00	56.19	A16S
ATOM	595	N7	A	A	32	152.145	83.250	11.935	1.00	56.19	A16S
ATOM	596	C8	A	A	32	151.329	82.228	11.828	1.00	56.19	A16S
ATOM	597	C2*	A	A	32	151.836	78.683	11.485	1.00	56.19	A16S
ATOM	598	O2*	A	A	32	151.591	77.544	10.675	1.00	56.19	A16S
ATOM	599	C3*	A	A	32	151.110	78.600	12.820	1.00	56.19	A16S
ATOM	600	O3*	A	A	32	151.114	77.277	13.358	1.00	56.19	A16S
ATOM	601	P	A	A	33	151.711	77.006	14.833	1.00	63.81	A16S
ATOM	602	O1P	A	A	33	151.057	75.778	15.357	1.00	53.46	A16S
ATOM	603	O2P	A	A	33	151.634	78.252	15.619	1.00	53.46	A16S
ATOM	604	O5*	A	A	33	153.259	76.701	14.586	1.00	63.81	A16S
ATOM	605	C5*	A	A	33	153.692	75.649	13.694	1.00	63.81	A16S
ATOM	606	C4*	A	A	33	155.058	75.976	13.141	1.00	63.81	A16S
ATOM	607	O4*	A	A	33	154.960	77.145	12.299	1.00	63.81	A16S
ATOM	608	C1*	A	A	33	156.084	77.983	12.496	1.00	63.81	A16S
ATOM	609	N9	A	A	33	155.607	79.275	12.995	1.00	53.46	A16S



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ATOM	610	C4	A	A	33	156.347	80.431	13.099	1.00	53.46	A16S
ATOM	611	N3	A	A	33	157.642	80.605	12.790	1.00	53.46	A16S
ATOM	612	C2	A	A	33	158.017	81.865	13.018	1.00	53.46	A16S
ATOM	613	N1	A	A	33	157.304	82.884	13.485	1.00	53.46	A16S
ATOM	614	C6	A	A	33	156.008	82.676	13.790	1.00	53.46	A16S
ATOM	615	N6	A	A	33	155.297	83.693	14.269	1.00	53.46	A16S
ATOM	616	C5	A	A	33	155.482	81.390	13.589	1.00	53.46	A16S
ATOM	617	N7	A	A	33	154.218	80.854	13.797	1.00	53.46	A16S
ATOM	618	C8	A	A	33	154.344	79.600	13.437	1.00	53.46	A16S
ATOM	619	C2*	A	A	33	157.033	77.276	13.457	1.00	63.81	A16S
ATOM	620	O2*	A	A	33	158.001	76.584	12.699	1.00	63.81	A16S
ATOM	621	C3*	A	A	33	156.076	76.353	14.199	1.00	63.81	A16S
ATOM	622	O3*	A	A	33	156.710	75.200	14.722	1.00	63.81	A16S
ATOM	623	P	C	A	34	157.223	75.205	16.243	1.00	48.77	A16S
ATOM	624	O1P	C	A	34	157.633	73.803	16.535	1.00	60.59	A16S
ATOM	625	O2P	C	A	34	156.192	75.860	17.090	1.00	60.59	A16S
ATOM	626	O5*	C	A	34	158.512	76.146	16.218	1.00	48.77	A16S
ATOM	627	C5*	C	A	34	159.736	75.670	15.654	1.00	48.77	A16S
ATOM	628	C4*	C	A	34	160.765	76.758	15.652	1.00	48.77	A16S
ATOM	629	O4*	C	A	34	160.296	77.838	14.812	1.00	48.77	A16S
ATOM	630	C1*	C	A	34	160.719	79.078	15.353	1.00	48.77	A16S
ATOM	631	N1	C	A	34	159.525	79.861	15.699	1.00	60.59	A16S
ATOM	632	C6	C	A	34	158.300	79.264	15.817	1.00	60.59	A16S
ATOM	633	C2	C	A	34	159.672	81.232	15.944	1.00	60.59	A16S
ATOM	634	O2	C	A	34	160.790	81.753	15.786	1.00	60.59	A16S
ATOM	635	N3	C	A	34	158.595	81.949	16.347	1.00	60.59	A16S
ATOM	636	C4	C	A	34	157.414	81.344	16.498	1.00	60.59	A16S
ATOM	637	N4	C	A	34	156.389	82.072	16.936	1.00	60.59	A16S
ATOM	638	C5	C	A	34	157.232	79.960	16.215	1.00	60.59	A16S
ATOM	639	C2*	C	A	34	161.546	78.786	16.608	1.00	48.77	A16S
ATOM	640	O2*	C	A	34	162.916	78.854	16.286	1.00	48.77	A16S
ATOM	641	C3*	C	A	34	161.036	77.402	16.994	1.00	48.77	A16S
ATOM	642	O3*	C	A	34	161.965	76.653	17.753	1.00	48.77	A16S
ATOM	643	P	G	A	35	161.865	76.664	19.361	1.00	55.16	A16S
ATOM	644	O1P	G	A	35	162.709	75.551	19.866	1.00	53.80	A16S
ATOM	645	O2P	G	A	35	160.435	76.718	19.743	1.00	53.80	A16S
ATOM	646	O5*	G	A	35	162.564	78.036	19.766	1.00	55.16	A16S
ATOM	647	C5*	G	A	35	163.944	78.243	19.450	1.00	55.16	A16S
ATOM	648	C4*	G	A	35	164.369	79.613	19.858	1.00	55.16	A16S
ATOM	649	O4*	G	A	35	163.676	80.585	19.049	1.00	55.16	A16S
ATOM	650	C1*	G	A	35	163.365	81.720	19.836	1.00	55.16	A16S
ATOM	651	N9	G	A	35	161.911	81.897	19.839	1.00	53.80	A16S
ATOM	652	C4	G	A	35	161.220	83.048	20.162	1.00	53.80	A16S
ATOM	653	N3	G	A	35	161.761	84.209	20.573	1.00	53.80	A16S
ATOM	654	C2	G	A	35	160.842	85.135	20.771	1.00	53.80	A16S
ATOM	655	N2	G	A	35	161.194	86.346	21.184	1.00	53.80	A16S
ATOM	656	N1	G	A	35	159.509	84.940	20.581	1.00	53.80	A16S
ATOM	657	C6	G	A	35	158.929	83.750	20.172	1.00	53.80	A16S
ATOM	658	O6	G	A	35	157.707	83.678	20.046	1.00	53.80	A16S
ATOM	659	C5	G	A	35	159.894	82.747	19.957	1.00	53.80	A16S
ATOM	660	N7	G	A	35	159.741	81.428	19.548	1.00	53.80	A16S
ATOM	661	C8	G	A	35	160.960	80.961	19.495	1.00	53.80	A16S
ATOM	662	C2*	G	A	35	163.956	81.487	21.223	1.00	55.16	A16S
ATOM	663	O2*	G	A	35	165.262	82.014	21.256	1.00	55.16	A16S
ATOM	664	C3*	G	A	35	164.011	79.977	21.277	1.00	55.16	A16S
ATOM	665	O3*	G	A	35	165.003	79.532	22.167	1.00	55.16	A16S
ATOM	666	P	C	A	36	164.572	78.973	23.608	1.00	70.76	A16S
ATOM	667	O1P	C	A	36	165.700	78.098	24.061	1.00	50.40	A16S
ATOM	668	O2P	C	A	36	163.202	78.399	23.497	1.00	50.40	A16S
ATOM	669	O5*	C	A	36	164.476	80.286	24.510	1.00	70.76	A16S
ATOM	670	C5*	C	A	36	165.650	81.057	24.833	1.00	70.76	A16S
ATOM	671	C4*	C	A	36	165.255	82.403	25.404	1.00	70.76	A16S
ATOM	672	O4*	C	A	36	164.674	83.229	24.356	1.00	70.76	A16S
ATOM	673	C1*	C	A	36	163.619	84.016	24.887	1.00	70.76	A16S
ATOM	674	N1	C	A	36	162.355	83.528	24.321	1.00	50.40	A16S
ATOM	675	C6	C	A	36	162.280	82.286	23.754	1.00	50.40	A16S
ATOM	676	C2	C	A	36	161.207	84.344	24.393	1.00	50.40	A16S
ATOM	677	O2	C	A	36	161.303	85.481	24.883	1.00	50.40	A16S
ATOM	678	N3	C	A	36	160.024	83.865	23.924	1.00	50.40	A16S
ATOM	679	C4	C	A	36	159.969	82.640	23.388	1.00	50.40	A16S
ATOM	680	N4	C	A	36	158.793	82.197	22.947	1.00	50.40	A16S
ATOM	681	C5	C	A	36	161.125	81.809	23.282	1.00	50.40	A16S
ATOM	682	C2*	C	A	36	163.610	83.792	26.393	1.00	70.76	A16S
ATOM	683	O2*	C	A	36	164.434	84.759	27.008	1.00	70.76	A16S
ATOM	684	C3*	C	A	36	164.189	82.387	26.490	1.00	70.76	A16S
ATOM	685	O3*	C	A	36	164.680	82.086	27.791	1.00	70.76	A16S
ATOM	686	P	U	A	37	163.706	81.354	28.848	1.00	62.62	A16S



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ATOM	687	O1P	U	A	37	164.416	81.359	30.154	1.00	57.09	A16S
ATOM	688	O2P	U	A	37	163.244	80.060	28.254	1.00	57.09	A16S
ATOM	689	O5*	U	A	37	162.435	82.318	28.958	1.00	62.62	A16S
ATOM	690	C5*	U	A	37	162.558	83.630	29.542	1.00	62.62	A16S
ATOM	691	C4*	U	A	37	161.210	84.309	29.660	1.00	62.62	A16S
ATOM	692	O4*	U	A	37	160.701	84.657	28.347	1.00	62.62	A16S
ATOM	693	C1*	U	A	37	159.277	84.628	28.366	1.00	62.62	A16S
ATOM	694	N1	U	A	37	158.792	83.545	27.489	1.00	57.09	A16S
ATOM	695	C6	U	A	37	159.603	82.496	27.118	1.00	57.09	A16S
ATOM	696	C2	U	A	37	157.461	83.591	27.078	1.00	57.09	A16S
ATOM	697	O2	U	A	37	156.712	84.524	27.341	1.00	57.09	A16S
ATOM	698	N3	U	A	37	157.040	82.502	26.350	1.00	57.09	A16S
ATOM	699	C4	U	A	37	157.792	81.402	25.981	1.00	57.09	A16S
ATOM	700	O4	U	A	37	157.239	80.440	25.431	1.00	57.09	A16S
ATOM	701	C5	U	A	37	159.160	81.454	26.398	1.00	57.09	A16S
ATOM	702	C2*	U	A	37	158.858	84.302	29.794	1.00	62.62	A16S
ATOM	703	O2*	U	A	37	158.647	85.490	30.530	1.00	62.62	A16S
ATOM	704	C3*	U	A	37	160.067	83.526	30.281	1.00	62.62	A16S
ATOM	705	O3*	U	A	37	160.077	83.435	31.687	1.00	62.62	A16S
ATOM	706	P	G	A	38	159.287	82.220	32.390	1.00	70.54	A16S
ATOM	707	O1P	G	A	38	159.532	82.324	33.852	1.00	81.09	A16S
ATOM	708	O2P	G	A	38	159.612	80.964	31.681	1.00	81.09	A16S
ATOM	709	O5*	G	A	38	157.752	82.525	32.091	1.00	70.54	A16S
ATOM	710	C5*	G	A	38	157.125	83.697	32.633	1.00	70.54	A16S
ATOM	711	C4*	G	A	38	155.688	83.779	32.195	1.00	70.54	A16S
ATOM	712	O4*	G	A	38	155.626	83.872	30.753	1.00	70.54	A16S
ATOM	713	C1*	G	A	38	154.422	83.279	30.294	1.00	70.54	A16S
ATOM	714	N9	G	A	38	154.748	82.156	29.426	1.00	81.09	A16S
ATOM	715	C4	G	A	38	153.879	81.521	28.579	1.00	81.09	A16S
ATOM	716	N3	G	A	38	152.600	81.873	28.351	1.00	81.09	A16S
ATOM	717	C2	G	A	38	152.008	81.048	27.508	1.00	81.09	A16S
ATOM	718	N2	G	A	38	150.735	81.259	27.152	1.00	81.09	A16S
ATOM	719	N1	G	A	38	152.619	79.957	26.946	1.00	81.09	A16S
ATOM	720	C6	G	A	38	153.936	79.581	27.166	1.00	81.09	A16S
ATOM	721	O6	G	A	38	154.391	78.583	26.606	1.00	81.09	A16S
ATOM	722	C5	G	A	38	154.586	80.463	28.056	1.00	81.09	A16S
ATOM	723	N7	G	A	38	155.889	80.461	28.529	1.00	81.09	A16S
ATOM	724	C8	G	A	38	155.943	81.489	29.331	1.00	81.09	A16S
ATOM	725	C2*	G	A	38	153.666	82.763	31.516	1.00	70.54	A16S
ATOM	726	O2*	G	A	38	152.707	83.722	31.923	1.00	70.54	A16S
ATOM	727	C3*	G	A	38	154.793	82.597	32.522	1.00	70.54	A16S
ATOM	728	O3*	G	A	38	154.288	82.650	33.839	1.00	70.54	A16S
ATOM	729	P	G	A	39	154.016	81.284	34.637	1.00	68.48	A16S
ATOM	730	O1P	G	A	39	155.078	81.209	35.682	1.00	71.51	A16S
ATOM	731	O2P	G	A	39	153.846	80.161	33.671	1.00	71.51	A16S
ATOM	732	O5*	G	A	39	152.622	81.539	35.355	1.00	68.48	A16S
ATOM	733	C5*	G	A	39	151.420	81.646	34.589	1.00	68.48	A16S
ATOM	734	C4*	G	A	39	150.357	82.355	35.384	1.00	68.48	A16S
ATOM	735	O4*	G	A	39	150.610	83.789	35.391	1.00	68.48	A16S
ATOM	736	C1*	G	A	39	149.374	84.489	35.413	1.00	68.48	A16S
ATOM	737	N9	G	A	39	149.266	85.378	34.256	1.00	71.51	A16S
ATOM	738	C4	G	A	39	148.244	86.280	34.056	1.00	71.51	A16S
ATOM	739	N3	G	A	39	147.215	86.512	34.906	1.00	71.51	A16S
ATOM	740	C2	G	A	39	146.380	87.426	34.441	1.00	71.51	A16S
ATOM	741	N2	G	A	39	145.309	87.769	35.170	1.00	71.51	A16S
ATOM	742	N1	G	A	39	146.535	88.066	33.233	1.00	71.51	A16S
ATOM	743	C6	G	A	39	147.579	87.848	32.341	1.00	71.51	A16S
ATOM	744	O6	G	A	39	147.615	88.478	31.290	1.00	71.51	A16S
ATOM	745	C5	G	A	39	148.496	86.860	32.831	1.00	71.51	A16S
ATOM	746	N7	G	A	39	149.664	86.348	32.278	1.00	71.51	A16S
ATOM	747	C8	G	A	39	150.091	85.480	33.160	1.00	71.51	A16S
ATOM	748	C2*	G	A	39	148.253	83.452	35.371	1.00	68.48	A16S
ATOM	749	O2*	G	A	39	147.737	83.226	36.665	1.00	68.48	A16S
ATOM	750	C3*	G	A	39	148.972	82.252	34.782	1.00	68.48	A16S
ATOM	751	O3*	G	A	39	148.332	81.025	35.067	1.00	68.48	A16S
ATOM	752	P	C	A	40	147.181	80.505	34.075	1.00	69.83	A16S
ATOM	753	O1P	C	A	40	146.791	79.120	34.465	1.00	70.02	A16S
ATOM	754	O2P	C	A	40	147.613	80.774	32.674	1.00	70.02	A16S
ATOM	755	O5*	C	A	40	145.969	81.481	34.419	1.00	69.83	A16S
ATOM	756	C5*	C	A	40	145.463	81.545	35.760	1.00	69.83	A16S
ATOM	757	C4*	C	A	40	144.228	82.388	35.814	1.00	69.83	A16S
ATOM	758	O4*	C	A	40	144.581	83.768	35.589	1.00	69.83	A16S
ATOM	759	C1*	C	A	40	143.548	84.409	34.865	1.00	69.83	A16S
ATOM	760	N1	C	A	40	144.104	84.900	33.597	1.00	70.02	A16S
ATOM	761	C6	C	A	40	145.372	84.578	33.213	1.00	70.02	A16S
ATOM	762	C2	C	A	40	143.307	85.699	32.785	1.00	70.02	A16S
ATOM	763	O2	C	A	40	142.161	85.966	33.154	1.00	70.02	A16S



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ATOM	764	N3	C	A	40	143.801	86.156	31.617	1.00	70.02	A16S
ATOM	765	C4	C	A	40	145.040	85.838	31.252	1.00	70.02	A16S
ATOM	766	N4	C	A	40	145.492	86.313	30.094	1.00	70.02	A16S
ATOM	767	C5	C	A	40	145.873	85.020	32.059	1.00	70.02	A16S
ATOM	768	C2*	C	A	40	142.436	83.386	34.641	1.00	69.83	A16S
ATOM	769	O2*	C	A	40	141.458	83.532	35.648	1.00	69.83	A16S
ATOM	770	C3*	C	A	40	143.200	82.079	34.750	1.00	69.83	A16S
ATOM	771	O3*	C	A	40	142.377	80.995	35.114	1.00	69.83	A16S
ATOM	772	P	G	A	41	141.775	80.050	33.965	1.00	62.15	A16S
ATOM	773	O1P	G	A	41	141.080	78.940	34.670	1.00	83.77	A16S
ATOM	774	O2P	G	A	41	142.849	79.737	32.978	1.00	83.77	A16S
ATOM	775	O5*	G	A	41	140.662	80.955	33.272	1.00	62.15	A16S
ATOM	776	C5*	G	A	41	139.514	81.363	34.030	1.00	62.15	A16S
ATOM	777	C4*	G	A	41	138.684	82.376	33.275	1.00	62.15	A16S
ATOM	778	O4*	G	A	41	139.442	83.588	33.027	1.00	62.15	A16S
ATOM	779	C1*	G	A	41	138.973	84.197	31.840	1.00	62.15	A16S
ATOM	780	N9	G	A	41	140.091	84.359	30.921	1.00	83.77	A16S
ATOM	781	C4	G	A	41	140.137	85.207	29.843	1.00	83.77	A16S
ATOM	782	N3	G	A	41	139.160	86.053	29.457	1.00	83.77	A16S
ATOM	783	C2	G	A	41	139.501	86.745	28.383	1.00	83.77	A16S
ATOM	784	N2	G	A	41	138.657	87.650	27.881	1.00	83.77	A16S
ATOM	785	N1	G	A	41	140.696	86.602	27.729	1.00	83.77	A16S
ATOM	786	C6	G	A	41	141.713	85.731	28.106	1.00	83.77	A16S
ATOM	787	O6	G	A	41	142.755	85.673	27.443	1.00	83.77	A16S
ATOM	788	C5	G	A	41	141.368	84.997	29.266	1.00	83.77	A16S
ATOM	789	N7	G	A	41	142.088	84.044	29.971	1.00	83.77	A16S
ATOM	790	C8	G	A	41	141.292	83.695	30.944	1.00	83.77	A16S
ATOM	791	C2*	G	A	41	137.862	83.314	31.265	1.00	62.15	A16S
ATOM	792	O2*	G	A	41	136.611	83.819	31.682	1.00	62.15	A16S
ATOM	793	C3*	G	A	41	138.150	81.969	31.916	1.00	62.15	A16S
ATOM	794	O3*	G	A	41	136.957	81.221	32.049	1.00	62.15	A16S
ATOM	795	P	G	A	42	136.358	80.469	30.774	1.00	70.63	A16S
ATOM	796	O1P	G	A	42	135.207	79.624	31.191	1.00	68.88	A16S
ATOM	797	O2P	G	A	42	137.498	79.847	30.086	1.00	68.88	A16S
ATOM	798	O5*	G	A	42	135.822	81.652	29.855	1.00	70.63	A16S
ATOM	799	C5*	G	A	42	134.625	82.358	30.203	1.00	70.63	A16S
ATOM	800	C4*	G	A	42	134.246	83.330	29.112	1.00	70.63	A16S
ATOM	801	O4*	G	A	42	135.256	84.355	28.991	1.00	70.63	A16S
ATOM	802	C1*	G	A	42	135.370	84.742	27.635	1.00	70.63	A16S
ATOM	803	N9	G	A	42	136.717	84.439	27.184	1.00	68.88	A16S
ATOM	804	C4	G	A	42	137.320	84.967	26.078	1.00	68.88	A16S
ATOM	805	N3	G	A	42	136.762	85.845	25.214	1.00	68.88	A16S
ATOM	806	C2	G	A	42	137.605	86.195	24.258	1.00	68.88	A16S
ATOM	807	N2	G	A	42	137.227	87.074	23.317	1.00	68.88	A16S
ATOM	808	N1	G	A	42	138.882	85.712	24.156	1.00	68.88	A16S
ATOM	809	C6	G	A	42	139.464	84.799	25.029	1.00	68.88	A16S
ATOM	810	O6	G	A	42	140.613	84.414	24.839	1.00	68.88	A16S
ATOM	811	C5	G	A	42	138.582	84.426	26.060	1.00	68.88	A16S
ATOM	812	N7	G	A	42	138.762	83.555	27.126	1.00	68.88	A16S
ATOM	813	C8	G	A	42	137.628	83.591	27.764	1.00	68.88	A16S
ATOM	814	C2*	G	A	42	134.344	83.961	26.827	1.00	70.63	A16S
ATOM	815	O2*	G	A	42	133.187	84.758	26.700	1.00	70.63	A16S
ATOM	816	C3*	G	A	42	134.129	82.750	27.716	1.00	70.63	A16S
ATOM	817	O3*	G	A	42	132.852	82.214	27.513	1.00	70.63	A16S
ATOM	818	P	C	A	43	132.687	80.939	26.574	1.00	59.16	A16S
ATOM	819	O1P	C	A	43	131.256	80.508	26.676	1.00	67.97	A16S
ATOM	820	O2P	C	A	43	133.791	79.985	26.910	1.00	67.97	A16S
ATOM	821	O5*	C	A	43	132.948	81.503	25.110	1.00	59.16	A16S
ATOM	822	C5*	C	A	43	131.958	82.309	24.472	1.00	59.16	A16S
ATOM	823	C4*	C	A	43	132.535	83.001	23.271	1.00	59.16	A16S
ATOM	824	O4*	C	A	43	133.712	83.736	23.667	1.00	59.16	A16S
ATOM	825	C1*	C	A	43	134.588	83.828	22.567	1.00	59.16	A16S
ATOM	826	N1	C	A	43	135.892	83.304	22.961	1.00	67.97	A16S
ATOM	827	C6	C	A	43	136.047	82.562	24.097	1.00	67.97	A16S
ATOM	828	C2	C	A	43	136.978	83.559	22.131	1.00	67.97	A16S
ATOM	829	O2	C	A	43	136.808	84.276	21.126	1.00	67.97	A16S
ATOM	830	N3	C	A	43	138.177	83.029	22.438	1.00	67.97	A16S
ATOM	831	C4	C	A	43	138.313	82.287	23.535	1.00	67.97	A16S
ATOM	832	N4	C	A	43	139.512	81.773	23.793	1.00	67.97	A16S
ATOM	833	C5	C	A	43	137.227	82.038	24.416	1.00	67.97	A16S
ATOM	834	C2*	C	A	43	133.987	83.034	21.405	1.00	59.16	A16S
ATOM	835	O2*	C	A	43	133.357	83.942	20.531	1.00	59.16	A16S
ATOM	836	C3*	C	A	43	132.994	82.129	22.118	1.00	59.16	A16S
ATOM	837	O3*	C	A	43	131.894	81.858	21.274	1.00	59.16	A16S
ATOM	838	P	G	A	44	131.859	80.508	20.417	1.00	71.75	A16S
ATOM	839	O1P	G	A	44	130.673	80.646	19.525	1.00	70.88	A16S
ATOM	840	O2P	G	A	44	131.950	79.348	21.334	1.00	70.88	A16S



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ATOM	841	O5*	G	A	44	133.194	80.560	19.539	1.00	71.75	A16S
ATOM	842	C5*	G	A	44	133.214	81.312	18.318	1.00	71.75	A16S
ATOM	843	C4*	G	A	44	134.623	81.502	17.788	1.00	71.75	A16S
ATOM	844	O4*	G	A	44	135.536	81.878	18.849	1.00	71.75	A16S
ATOM	845	C1*	G	A	44	136.860	81.704	18.379	1.00	71.75	A16S
ATOM	846	N9	G	A	44	137.671	81.017	19.381	1.00	70.88	A16S
ATOM	847	C4	G	A	44	139.023	80.797	19.288	1.00	70.88	A16S
ATOM	848	N3	G	A	44	139.820	81.220	18.293	1.00	70.88	A16S
ATOM	849	C2	G	A	44	141.065	80.821	18.455	1.00	70.88	A16S
ATOM	850	N2	G	A	44	141.987	81.158	17.550	1.00	70.88	A16S
ATOM	851	N1	G	A	44	141.497	80.066	19.510	1.00	70.88	A16S
ATOM	852	C6	G	A	44	140.697	79.617	20.545	1.00	70.88	A16S
ATOM	853	O6	G	A	44	141.188	78.928	21.438	1.00	70.88	A16S
ATOM	854	C5	G	A	44	139.351	80.046	20.388	1.00	70.88	A16S
ATOM	855	N7	G	A	44	138.235	79.828	21.183	1.00	70.88	A16S
ATOM	856	C8	G	A	44	137.264	80.432	20.552	1.00	70.88	A16S
ATOM	857	C2*	G	A	44	136.781	80.893	17.084	1.00	71.75	A16S
ATOM	858	O2*	G	A	44	136.935	81.775	15.996	1.00	71.75	A16S
ATOM	859	C3*	G	A	44	135.359	80.354	17.116	1.00	71.75	A16S
ATOM	860	O3*	G	A	44	134.954	80.155	15.765	1.00	71.75	A16S
ATOM	861	P	U	A	45	135.228	78.734	15.048	1.00	53.47	A16S
ATOM	862	O1P	U	A	45	134.765	78.879	13.639	1.00	78.19	A16S
ATOM	863	O2P	U	A	45	134.670	77.649	15.892	1.00	78.19	A16S
ATOM	864	O5*	U	A	45	136.815	78.573	15.046	1.00	53.47	A16S
ATOM	865	C5*	U	A	45	137.617	79.283	14.082	1.00	53.47	A16S
ATOM	866	C4*	U	A	45	139.085	78.961	14.260	1.00	53.47	A16S
ATOM	867	O4*	U	A	45	139.515	79.361	15.580	1.00	53.47	A16S
ATOM	868	C1*	U	A	45	140.469	78.444	16.063	1.00	53.47	A16S
ATOM	869	N1	U	A	45	139.936	77.863	17.296	1.00	78.19	A16S
ATOM	870	C6	U	A	45	138.591	77.884	17.569	1.00	78.19	A16S
ATOM	871	C2	U	A	45	140.829	77.287	18.154	1.00	78.19	A16S
ATOM	872	O2	U	A	45	142.025	77.274	17.945	1.00	78.19	A16S
ATOM	873	N3	U	A	45	140.273	76.723	19.268	1.00	78.19	A16S
ATOM	874	C4	U	A	45	138.932	76.689	19.598	1.00	78.19	A16S
ATOM	875	O4	U	A	45	138.571	76.089	20.616	1.00	78.19	A16S
ATOM	876	C5	U	A	45	138.073	77.334	18.659	1.00	78.19	A16S
ATOM	877	C2*	U	A	45	140.722	77.390	14.983	1.00	53.47	A16S
ATOM	878	O2*	U	A	45	141.906	77.700	14.289	1.00	53.47	A16S
ATOM	879	C3*	U	A	45	139.463	77.499	14.138	1.00	53.47	A16S
ATOM	880	O3*	U	A	45	139.717	77.195	12.783	1.00	53.47	A16S
ATOM	881	P	G	A	46	139.652	75.678	12.295	1.00	52.99	A16S
ATOM	882	O1P	G	A	46	139.796	75.684	10.816	1.00	62.66	A16S
ATOM	883	O2P	G	A	46	138.449	75.056	12.903	1.00	62.66	A16S
ATOM	884	O5*	G	A	46	140.977	75.062	12.938	1.00	52.99	A16S
ATOM	885	C5*	G	A	46	142.268	75.433	12.416	1.00	52.99	A16S
ATOM	886	C4*	G	A	46	143.379	74.754	13.178	1.00	52.99	A16S
ATOM	887	O4*	G	A	46	143.445	75.296	14.517	1.00	52.99	A16S
ATOM	888	C1*	G	A	46	143.834	74.277	15.425	1.00	52.99	A16S
ATOM	889	N9	G	A	46	142.730	74.052	16.347	1.00	62.66	A16S
ATOM	890	C4	G	A	46	142.815	73.531	17.608	1.00	62.66	A16S
ATOM	891	N3	G	A	46	143.949	73.187	18.244	1.00	62.66	A16S
ATOM	892	C2	G	A	46	143.710	72.688	19.441	1.00	62.66	A16S
ATOM	893	N2	G	A	46	144.733	72.331	20.221	1.00	62.66	A16S
ATOM	894	N1	G	A	46	142.454	72.510	19.964	1.00	62.66	A16S
ATOM	895	C6	G	A	46	141.266	72.834	19.316	1.00	62.66	A16S
ATOM	896	O6	G	A	46	140.166	72.582	19.856	1.00	62.66	A16S
ATOM	897	C5	G	A	46	141.515	73.415	18.043	1.00	62.66	A16S
ATOM	898	N7	G	A	46	140.632	73.900	17.089	1.00	62.66	A16S
ATOM	899	C8	G	A	46	141.398	74.273	16.104	1.00	62.66	A16S
ATOM	900	C2*	G	A	46	144.102	73.011	14.612	1.00	52.99	A16S
ATOM	901	O2*	G	A	46	145.472	72.920	14.290	1.00	52.99	A16S
ATOM	902	C3*	G	A	46	143.245	73.257	13.385	1.00	52.99	A16S
ATOM	903	O3*	G	A	46	143.682	72.502	12.278	1.00	52.99	A16S
ATOM	904	P	C	A	47	142.775	71.283	11.766	1.00	56.38	A16S
ATOM	905	O1P	C	A	47	141.582	71.829	11.065	1.00	76.96	A16S
ATOM	906	O2P	C	A	47	142.592	70.364	12.907	1.00	76.96	A16S
ATOM	907	O5*	C	A	47	143.679	70.584	10.668	1.00	56.38	A16S
ATOM	908	C5*	C	A	47	144.983	70.113	10.996	1.00	56.38	A16S
ATOM	909	C4*	C	A	47	145.828	70.061	9.759	1.00	56.38	A16S
ATOM	910	O4*	C	A	47	147.146	69.590	10.120	1.00	56.38	A16S
ATOM	911	C1*	C	A	47	147.460	68.449	9.357	1.00	56.38	A16S
ATOM	912	N1	C	A	47	148.345	67.594	10.155	1.00	76.96	A16S
ATOM	913	C6	C	A	47	148.221	67.542	11.516	1.00	76.96	A16S
ATOM	914	C2	C	A	47	149.358	66.868	9.505	1.00	76.96	A16S
ATOM	915	O2	C	A	47	149.404	66.865	8.264	1.00	76.96	A16S
ATOM	916	N3	C	A	47	150.256	66.187	10.251	1.00	76.96	A16S
ATOM	917	C4	C	A	47	150.159	66.196	11.586	1.00	76.96	A16S



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ATOM	918	N4	C	A	47	151.105	65.569	12.292	1.00	76.96	A16S
ATOM	919	C5	C	A	47	149.097	66.865	12.262	1.00	76.96	A16S
ATOM	920	C2*	C	A	47	146.124	67.862	8.908	1.00	56.38	A16S
ATOM	921	O2*	C	A	47	146.308	67.085	7.744	1.00	56.38	A16S
ATOM	922	C3*	C	A	47	145.324	69.137	8.657	1.00	56.38	A16S
ATOM	923	O3*	C	A	47	145.774	69.722	7.440	1.00	56.38	A16S
ATOM	924	P	C	A	48	144.794	69.854	6.184	1.00	67.67	A16S
ATOM	925	O1P	C	A	48	143.579	70.522	6.701	1.00	85.22	A16S
ATOM	926	O2P	C	A	48	144.674	68.564	5.435	1.00	85.22	A16S
ATOM	927	O5*	C	A	48	145.579	70.878	5.253	1.00	67.67	A16S
ATOM	928	C5*	C	A	48	145.974	72.166	5.760	1.00	67.67	A16S
ATOM	929	C4*	C	A	48	147.045	72.796	4.888	1.00	67.67	A16S
ATOM	930	O4*	C	A	48	147.119	74.199	5.206	1.00	67.67	A16S
ATOM	931	C1*	C	A	48	148.437	74.657	5.040	1.00	67.67	A16S
ATOM	932	N1	C	A	48	148.699	75.657	6.087	1.00	85.22	A16S
ATOM	933	C6	C	A	48	149.047	75.289	7.356	1.00	85.22	A16S
ATOM	934	C2	C	A	48	148.556	77.022	5.756	1.00	85.22	A16S
ATOM	935	O2	C	A	48	148.274	77.338	4.583	1.00	85.22	A16S
ATOM	936	N3	C	A	48	148.736	77.959	6.717	1.00	85.22	A16S
ATOM	937	C4	C	A	48	149.065	77.588	7.955	1.00	85.22	A16S
ATOM	938	N4	C	A	48	149.233	78.553	8.871	1.00	85.22	A16S
ATOM	939	C5	C	A	48	149.239	76.212	8.312	1.00	85.22	A16S
ATOM	940	C2*	C	A	48	149.389	73.463	4.911	1.00	67.67	A16S
ATOM	941	O2*	C	A	48	150.131	73.542	3.717	1.00	67.67	A16S
ATOM	942	C3*	C	A	48	148.455	72.255	5.077	1.00	67.67	A16S
ATOM	943	O3*	C	A	48	148.696	71.122	4.211	1.00	67.67	A16S
ATOM	944	P	U	A	49	148.569	71.255	2.591	1.00	65.06	A16S
ATOM	945	O1P	U	A	49	147.539	70.264	2.142	1.00	81.63	A16S
ATOM	946	O2P	U	A	49	148.433	72.676	2.178	1.00	81.63	A16S
ATOM	947	O5*	U	A	49	149.971	70.726	2.057	1.00	65.06	A16S
ATOM	948	C5*	U	A	49	150.153	69.330	1.838	1.00	65.06	A16S
ATOM	949	C4*	U	A	49	151.610	68.955	1.884	1.00	65.06	A16S
ATOM	950	O4*	U	A	49	152.237	69.437	3.102	1.00	65.06	A16S
ATOM	951	C1*	U	A	49	152.739	68.349	3.847	1.00	65.06	A16S
ATOM	952	N1	U	A	49	152.525	68.628	5.272	1.00	81.63	A16S
ATOM	953	C6	U	A	49	151.343	69.157	5.726	1.00	81.63	A16S
ATOM	954	C2	U	A	49	153.552	68.340	6.142	1.00	81.63	A16S
ATOM	955	O2	U	A	49	154.619	67.878	5.779	1.00	81.63	A16S
ATOM	956	N3	U	A	49	153.287	68.614	7.460	1.00	81.63	A16S
ATOM	957	C4	U	A	49	152.122	69.141	7.981	1.00	81.63	A16S
ATOM	958	O4	U	A	49	152.027	69.327	9.196	1.00	81.63	A16S
ATOM	959	C5	U	A	49	151.114	69.417	7.012	1.00	81.63	A16S
ATOM	960	C2*	U	A	49	151.985	67.117	3.359	1.00	65.06	A16S
ATOM	961	O2*	U	A	49	152.703	65.925	3.593	1.00	65.06	A16S
ATOM	962	C3*	U	A	49	151.775	67.448	1.885	1.00	65.06	A16S
ATOM	963	O3*	U	A	49	152.869	67.088	1.063	1.00	65.06	A16S
ATOM	964	P	A	A	50	152.620	66.109	-0.177	1.00	58.19	A16S
ATOM	965	O1P	A	A	50	151.819	66.813	-1.209	1.00	78.09	A16S
ATOM	966	O2P	A	A	50	153.936	65.529	-0.530	1.00	78.09	A16S
ATOM	967	O5*	A	A	50	151.714	64.969	0.444	1.00	58.19	A16S
ATOM	968	C5*	A	A	50	150.812	64.211	-0.365	1.00	58.19	A16S
ATOM	969	C4*	A	A	50	150.302	63.050	0.438	1.00	58.19	A16S
ATOM	970	O4*	A	A	50	151.391	62.119	0.675	1.00	58.19	A16S
ATOM	971	C1*	A	A	50	151.621	62.011	2.064	1.00	58.19	A16S
ATOM	972	N9	A	A	50	153.048	61.825	2.281	1.00	78.09	A16S
ATOM	973	C4	A	A	50	153.611	60.785	2.969	1.00	78.09	A16S
ATOM	974	N3	A	A	50	152.973	59.772	3.576	1.00	78.09	A16S
ATOM	975	C2	A	A	50	153.845	58.953	4.152	1.00	78.09	A16S
ATOM	976	N1	A	A	50	155.181	59.024	4.176	1.00	78.09	A16S
ATOM	977	C6	A	A	50	155.785	60.052	3.541	1.00	78.09	A16S
ATOM	978	N6	A	A	50	157.116	60.115	3.537	1.00	78.09	A16S
ATOM	979	C5	A	A	50	154.972	60.992	2.911	1.00	78.09	A16S
ATOM	980	N7	A	A	50	155.263	62.146	2.204	1.00	78.09	A16S
ATOM	981	C8	A	A	50	154.088	62.604	1.855	1.00	78.09	A16S
ATOM	982	C2*	A	A	50	151.030	63.267	2.698	1.00	58.19	A16S
ATOM	983	O2*	A	A	50	150.681	63.043	4.046	1.00	58.19	A16S
ATOM	984	C3*	A	A	50	149.810	63.478	1.816	1.00	58.19	A16S
ATOM	985	O3*	A	A	50	148.818	62.549	2.222	1.00	58.19	A16S
ATOM	986	P	A	A	51	147.413	63.068	2.782	1.00	67.78	A16S
ATOM	987	O1P	A	A	51	147.137	62.313	4.061	1.00	62.23	A16S
ATOM	988	O2P	A	A	51	147.517	64.560	2.816	1.00	62.23	A16S
ATOM	989	O5*	A	A	51	146.390	62.630	1.632	1.00	67.78	A16S
ATOM	990	C5*	A	A	51	146.534	63.173	0.317	1.00	67.78	A16S
ATOM	991	C4*	A	A	51	145.887	62.288	-0.706	1.00	67.78	A16S
ATOM	992	O4*	A	A	51	144.457	62.379	-0.595	1.00	67.78	A16S
ATOM	993	C1*	A	A	51	143.879	62.170	-1.866	1.00	67.78	A16S
ATOM	994	N9	A	A	51	142.663	62.978	-1.985	1.00	62.23	A16S



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ATOM	995	C4	A	A	51	141.656	62.797	-2.907	1.00	62.23	A16S
ATOM	996	N3	A	A	51	141.601	61.885	-3.888	1.00	62.23	A16S
ATOM	997	C2	A	A	51	140.468	61.994	-4.566	1.00	62.23	A16S
ATOM	998	N1	A	A	51	139.460	62.843	-4.390	1.00	62.23	A16S
ATOM	999	C6	A	A	51	139.545	63.744	-3.395	1.00	62.23	A16S
ATOM	1000	N6	A	A	51	138.533	64.585	-3.216	1.00	62.23	A16S
ATOM	1001	C5	A	A	51	140.695	63.736	-2.605	1.00	62.23	A16S
ATOM	1002	N7	A	A	51	141.087	64.510	-1.526	1.00	62.23	A16S
ATOM	1003	C8	A	A	51	142.262	64.029	-1.201	1.00	62.23	A16S
ATOM	1004	C2*	A	A	51	144.950	62.368	-2.942	1.00	67.78	A16S
ATOM	1005	O2*	A	A	51	145.099	61.213	-3.736	1.00	67.78	A16S
ATOM	1006	C3*	A	A	51	146.182	62.750	-2.122	1.00	67.78	A16S
ATOM	1007	O3*	A	A	51	147.444	62.217	-2.591	1.00	67.78	A16S
ATOM	1008	P	G	A	52	147.833	60.649	-2.357	1.00	56.52	A16S
ATOM	1009	O1P	G	A	52	146.621	59.783	-2.368	1.00	73.62	A16S
ATOM	1010	O2P	G	A	52	148.939	60.345	-3.293	1.00	73.62	A16S
ATOM	1011	O5*	G	A	52	148.431	60.614	-0.879	1.00	56.52	A16S
ATOM	1012	C5*	G	A	52	147.924	59.675	0.080	1.00	56.52	A16S
ATOM	1013	C4*	G	A	52	148.956	58.613	0.378	1.00	56.52	A16S
ATOM	1014	O4*	G	A	52	149.979	59.166	1.253	1.00	56.52	A16S
ATOM	1015	C1*	G	A	52	150.384	58.188	2.195	1.00	56.52	A16S
ATOM	1016	N9	G	A	52	150.064	58.674	3.533	1.00	73.62	A16S
ATOM	1017	C4	G	A	52	150.420	58.083	4.721	1.00	73.62	A16S
ATOM	1018	N3	G	A	52	151.141	56.951	4.858	1.00	73.62	A16S
ATOM	1019	C2	G	A	52	151.310	56.627	6.129	1.00	73.62	A16S
ATOM	1020	N2	G	A	52	152.000	55.522	6.452	1.00	73.62	A16S
ATOM	1021	N1	G	A	52	150.814	57.361	7.175	1.00	73.62	A16S
ATOM	1022	C6	G	A	52	150.074	58.527	7.052	1.00	73.62	A16S
ATOM	1023	O6	G	A	52	149.684	59.110	8.054	1.00	73.62	A16S
ATOM	1024	C5	G	A	52	149.879	58.881	5.705	1.00	73.62	A16S
ATOM	1025	N7	G	A	52	149.200	59.957	5.152	1.00	73.62	A16S
ATOM	1026	C8	G	A	52	149.340	59.796	3.864	1.00	73.62	A16S
ATOM	1027	C2*	G	A	52	149.644	56.891	1.866	1.00	56.52	A16S
ATOM	1028	O2*	G	A	52	150.453	56.100	1.024	1.00	56.52	A16S
ATOM	1029	C3*	G	A	52	148.413	57.410	1.137	1.00	56.52	A16S
ATOM	1030	O3*	G	A	52	147.841	56.438	0.252	1.00	56.52	A16S
ATOM	1031	P	A	A	53	146.664	55.466	0.785	1.00	52.58	A16S
ATOM	1032	O1P	A	A	53	146.402	54.436	-0.260	1.00	66.72	A16S
ATOM	1033	O2P	A	A	53	145.508	56.301	1.301	1.00	66.72	A16S
ATOM	1034	O5*	A	A	53	147.376	54.716	1.998	1.00	52.58	A16S
ATOM	1035	C5*	A	A	53	148.500	53.850	1.753	1.00	52.58	A16S
ATOM	1036	C4*	A	A	53	148.864	53.090	3.001	1.00	52.58	A16S
ATOM	1037	O4*	A	A	53	149.549	53.954	3.942	1.00	52.58	A16S
ATOM	1038	C1*	A	A	53	149.178	53.604	5.263	1.00	52.58	A16S
ATOM	1039	N9	A	A	53	148.543	54.772	5.870	1.00	66.72	A16S
ATOM	1040	C4	A	A	53	148.357	55.007	7.209	1.00	66.72	A16S
ATOM	1041	N3	A	A	53	148.723	54.222	8.230	1.00	66.72	A16S
ATOM	1042	C2	A	A	53	148.386	54.776	9.386	1.00	66.72	A16S
ATOM	1043	N1	A	A	53	147.767	55.933	9.617	1.00	66.72	A16S
ATOM	1044	C6	A	A	53	147.410	56.693	8.567	1.00	66.72	A16S
ATOM	1045	N6	A	A	53	146.782	57.841	8.798	1.00	66.72	A16S
ATOM	1046	C5	A	A	53	147.717	56.224	7.293	1.00	66.72	A16S
ATOM	1047	N7	A	A	53	147.502	56.753	6.034	1.00	66.72	A16S
ATOM	1048	C8	A	A	53	148.008	55.857	5.226	1.00	66.72	A16S
ATOM	1049	C2*	A	A	53	148.236	52.397	5.182	1.00	52.58	A16S
ATOM	1050	O2*	A	A	53	148.945	51.191	5.365	1.00	52.58	A16S
ATOM	1051	C3*	A	A	53	147.686	52.523	3.768	1.00	52.58	A16S
ATOM	1052	O3*	A	A	53	147.246	51.283	3.230	1.00	52.58	A16S
ATOM	1053	P	C	A	54	145.835	50.682	3.696	1.00	49.18	A16S
ATOM	1054	O1P	C	A	54	145.789	49.278	3.205	1.00	65.04	A16S
ATOM	1055	O2P	C	A	54	144.744	51.614	3.330	1.00	65.04	A16S
ATOM	1056	O5*	C	A	54	145.996	50.702	5.277	1.00	49.18	A16S
ATOM	1057	C5*	C	A	54	144.875	50.758	6.150	1.00	49.18	A16S
ATOM	1058	C4*	C	A	54	145.368	50.800	7.574	1.00	49.18	A16S
ATOM	1059	O4*	C	A	54	146.135	52.013	7.774	1.00	49.18	A16S
ATOM	1060	C1*	C	A	54	145.973	52.457	9.111	1.00	49.18	A16S
ATOM	1061	N1	C	A	54	145.382	53.794	9.100	1.00	65.04	A16S
ATOM	1062	C6	C	A	54	144.913	54.357	7.951	1.00	65.04	A16S
ATOM	1063	C2	C	A	54	145.276	54.465	10.308	1.00	65.04	A16S
ATOM	1064	O2	C	A	54	145.762	53.943	11.329	1.00	65.04	A16S
ATOM	1065	N3	C	A	54	144.658	55.655	10.344	1.00	65.04	A16S
ATOM	1066	C4	C	A	54	144.165	56.178	9.228	1.00	65.04	A16S
ATOM	1067	N4	C	A	54	143.521	57.337	9.320	1.00	65.04	A16S
ATOM	1068	C5	C	A	54	144.300	55.533	7.970	1.00	65.04	A16S
ATOM	1069	C2*	C	A	54	145.036	51.487	9.838	1.00	49.18	A16S
ATOM	1070	O2*	C	A	54	145.788	50.652	10.689	1.00	49.18	A16S
ATOM	1071	C3*	C	A	54	144.314	50.811	8.672	1.00	49.18	A16S



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ATOM	1072	O3*	C	A	54	143.885	49.487	8.971	1.00	49.18	A16S
ATOM	1073	P	A	A	55	142.835	49.240	10.152	1.00	51.21	A16S
ATOM	1074	O1P	A	A	55	142.096	47.976	9.867	1.00	79.23	A16S
ATOM	1075	O2P	A	A	55	142.080	50.506	10.307	1.00	79.23	A16S
ATOM	1076	O5*	A	A	55	143.746	49.054	11.455	1.00	51.21	A16S
ATOM	1077	C5*	A	A	55	144.647	47.925	11.593	1.00	51.21	A16S
ATOM	1078	C4*	A	A	55	144.851	47.575	13.055	1.00	51.21	A16S
ATOM	1079	O4*	A	A	55	145.641	48.583	13.724	1.00	51.21	A16S
ATOM	1080	C1*	A	A	55	145.258	48.657	15.088	1.00	51.21	A16S
ATOM	1081	N9	A	A	55	145.004	50.058	15.421	1.00	79.23	A16S
ATOM	1082	C4	A	A	55	144.518	50.550	16.607	1.00	79.23	A16S
ATOM	1083	N3	A	A	55	144.199	49.856	17.706	1.00	79.23	A16S
ATOM	1084	C2	A	A	55	143.745	50.669	18.657	1.00	79.23	A16S
ATOM	1085	N1	A	A	55	143.577	51.991	18.631	1.00	79.23	A16S
ATOM	1086	C6	A	A	55	143.897	52.656	17.507	1.00	79.23	A16S
ATOM	1087	N6	A	A	55	143.709	53.975	17.473	1.00	79.23	A16S
ATOM	1088	C5	A	A	55	144.405	51.912	16.432	1.00	79.23	A16S
ATOM	1089	N7	A	A	55	144.833	52.278	15.168	1.00	79.23	A16S
ATOM	1090	C8	A	A	55	145.182	51.146	14.613	1.00	79.23	A16S
ATOM	1091	C2*	A	A	55	144.056	47.727	15.303	1.00	51.21	A16S
ATOM	1092	O2*	A	A	55	144.440	46.551	15.974	1.00	51.21	A16S
ATOM	1093	C3*	A	A	55	143.587	47.462	13.880	1.00	51.21	A16S
ATOM	1094	O3*	A	A	55	143.084	46.154	13.767	1.00	51.21	A16S
ATOM	1095	P	U	A	56	141.506	45.914	13.787	1.00	62.31	A16S
ATOM	1096	O1P	U	A	56	141.306	44.448	13.863	1.00	86.15	A16S
ATOM	1097	O2P	U	A	56	140.885	46.684	12.667	1.00	86.15	A16S
ATOM	1098	O5*	U	A	56	141.065	46.569	15.169	1.00	62.31	A16S
ATOM	1099	C5*	U	A	56	141.435	45.960	16.415	1.00	62.31	A16S
ATOM	1100	C4*	U	A	56	140.960	46.800	17.571	1.00	62.31	A16S
ATOM	1101	O4*	U	A	56	141.809	47.961	17.723	1.00	62.31	A16S
ATOM	1102	C1*	U	A	56	141.028	49.054	18.175	1.00	62.31	A16S
ATOM	1103	N1	U	A	56	141.090	50.128	17.171	1.00	86.15	A16S
ATOM	1104	C6	U	A	56	141.557	49.909	15.896	1.00	86.15	A16S
ATOM	1105	C2	U	A	56	140.657	51.379	17.558	1.00	86.15	A16S
ATOM	1106	O2	U	A	56	140.218	51.609	18.673	1.00	86.15	A16S
ATOM	1107	N3	U	A	56	140.749	52.350	16.594	1.00	86.15	A16S
ATOM	1108	C4	U	A	56	141.207	52.201	15.307	1.00	86.15	A16S
ATOM	1109	O4	U	A	56	141.190	53.167	14.544	1.00	86.15	A16S
ATOM	1110	C5	U	A	56	141.629	50.876	14.978	1.00	86.15	A16S
ATOM	1111	C2*	U	A	56	139.599	48.558	18.385	1.00	62.31	A16S
ATOM	1112	O2*	U	A	56	139.422	48.172	19.734	1.00	62.31	A16S
ATOM	1113	C3*	U	A	56	139.555	47.367	17.448	1.00	62.31	A16S
ATOM	1114	O3*	U	A	56	138.566	46.451	17.848	1.00	62.31	A16S
ATOM	1115	P	G	A	57	137.055	46.683	17.381	1.00	74.06	A16S
ATOM	1116	O1P	G	A	57	136.235	45.551	17.888	1.00	85.93	A16S
ATOM	1117	O2P	G	A	57	137.071	46.977	15.928	1.00	85.93	A16S
ATOM	1118	O5*	G	A	57	136.631	47.999	18.164	1.00	74.06	A16S
ATOM	1119	C5*	G	A	57	136.422	47.973	19.580	1.00	74.06	A16S
ATOM	1120	C4*	G	A	57	135.751	49.247	20.028	1.00	74.06	A16S
ATOM	1121	O4*	G	A	57	136.675	50.361	19.904	1.00	74.06	A16S
ATOM	1122	C1*	G	A	57	135.961	51.535	19.541	1.00	74.06	A16S
ATOM	1123	N9	G	A	57	136.466	52.016	18.254	1.00	85.93	A16S
ATOM	1124	C4	G	A	57	136.555	53.332	17.854	1.00	85.93	A16S
ATOM	1125	N3	G	A	57	136.191	54.410	18.582	1.00	85.93	A16S
ATOM	1126	C2	G	A	57	136.413	55.540	17.936	1.00	85.93	A16S
ATOM	1127	N2	G	A	57	136.120	56.706	18.524	1.00	85.93	A16S
ATOM	1128	N1	G	A	57	136.941	55.607	16.671	1.00	85.93	A16S
ATOM	1129	C6	G	A	57	137.312	54.512	15.901	1.00	85.93	A16S
ATOM	1130	O6	G	A	57	137.764	54.683	14.773	1.00	85.93	A16S
ATOM	1131	C5	G	A	57	137.090	53.294	16.584	1.00	85.93	A16S
ATOM	1132	N7	G	A	57	137.324	51.984	16.186	1.00	85.93	A16S
ATOM	1133	C8	G	A	57	136.940	51.262	17.205	1.00	85.93	A16S
ATOM	1134	C2*	G	A	57	134.477	51.171	19.478	1.00	74.06	A16S
ATOM	1135	O2*	G	A	57	133.840	51.463	20.711	1.00	74.06	A16S
ATOM	1136	C3*	G	A	57	134.544	49.678	19.211	1.00	74.06	A16S
ATOM	1137	O3*	G	A	57	133.345	49.037	19.579	1.00	74.06	A16S
ATOM	1138	P	C	A	58	132.191	48.873	18.484	1.00	72.54	A16S
ATOM	1139	O1P	C	A	58	131.068	48.101	19.086	1.00	73.14	A16S
ATOM	1140	O2P	C	A	58	132.848	48.386	17.235	1.00	73.14	A16S
ATOM	1141	O5*	C	A	58	131.665	50.358	18.261	1.00	72.54	A16S
ATOM	1142	C5*	C	A	58	130.948	51.027	19.306	1.00	72.54	A16S
ATOM	1143	C4*	C	A	58	130.807	52.494	19.002	1.00	72.54	A16S
ATOM	1144	O4*	C	A	58	132.118	53.105	18.913	1.00	72.54	A16S
ATOM	1145	C1*	C	A	58	132.096	54.135	17.938	1.00	72.54	A16S
ATOM	1146	N1	C	A	58	133.003	53.752	16.834	1.00	73.14	A16S
ATOM	1147	C6	C	A	58	133.290	52.437	16.588	1.00	73.14	A16S
ATOM	1148	C2	C	A	58	133.549	54.752	16.023	1.00	73.14	A16S



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ATOM	1149	O2	C	A	58	133.290	55.940	16.274	1.00	73.14	A16S
ATOM	1150	N3	C	A	58	134.343	54.397	14.985	1.00	73.14	A16S
ATOM	1151	C4	C	A	58	134.598	53.110	14.749	1.00	73.14	A16S
ATOM	1152	N4	C	A	58	135.378	52.804	13.718	1.00	73.14	A16S
ATOM	1153	C5	C	A	58	134.069	52.077	15.565	1.00	73.14	A16S
ATOM	1154	C2*	C	A	58	130.651	54.262	17.449	1.00	72.54	A16S
ATOM	1155	O2*	C	A	58	129.951	55.191	18.258	1.00	72.54	A16S
ATOM	1156	C3*	C	A	58	130.124	52.860	17.695	1.00	72.54	A16S
ATOM	1157	O3*	C	A	58	128.718	52.884	17.827	1.00	72.54	A16S
ATOM	1158	P	A	A	59	127.801	52.688	16.529	1.00	75.08	A16S
ATOM	1159	O1P	A	A	59	126.391	52.775	17.012	1.00	98.54	A16S
ATOM	1160	O2P	A	A	59	128.257	51.472	15.821	1.00	98.54	A16S
ATOM	1161	O5*	A	A	59	128.140	53.943	15.603	1.00	75.08	A16S
ATOM	1162	C5*	A	A	59	127.809	55.273	16.031	1.00	75.08	A16S
ATOM	1163	C4*	A	A	59	128.254	56.306	15.014	1.00	75.08	A16S
ATOM	1164	O4*	A	A	59	129.686	56.208	14.803	1.00	75.08	A16S
ATOM	1165	C1*	A	A	59	130.004	56.647	13.494	1.00	75.08	A16S
ATOM	1166	N9	A	A	59	130.718	55.581	12.787	1.00	98.54	A16S
ATOM	1167	C4	A	A	59	131.071	55.622	11.459	1.00	98.54	A16S
ATOM	1168	N3	A	A	59	130.843	56.619	10.588	1.00	98.54	A16S
ATOM	1169	C2	A	A	59	131.309	56.310	9.382	1.00	98.54	A16S
ATOM	1170	N1	A	A	59	131.933	55.205	8.976	1.00	98.54	A16S
ATOM	1171	C6	A	A	59	132.156	54.223	9.877	1.00	98.54	A16S
ATOM	1172	N6	A	A	59	132.789	53.123	9.468	1.00	98.54	A16S
ATOM	1173	C5	A	A	59	131.704	54.427	11.198	1.00	98.54	A16S
ATOM	1174	N7	A	A	59	131.762	53.642	12.345	1.00	98.54	A16S
ATOM	1175	C8	A	A	59	131.165	54.371	13.255	1.00	98.54	A16S
ATOM	1176	C2*	A	A	59	128.695	57.037	12.806	1.00	75.08	A16S
ATOM	1177	O2*	A	A	59	128.518	58.431	12.932	1.00	75.08	A16S
ATOM	1178	C3*	A	A	59	127.668	56.254	13.612	1.00	75.08	A16S
ATOM	1179	O3*	A	A	59	126.397	56.885	13.536	1.00	75.08	A16S
ATOM	1180	P	A	A	60	125.534	56.763	12.185	1.00	48.97	A16S
ATOM	1181	O1P	A	A	60	126.431	57.130	11.065	1.00	73.23	A16S
ATOM	1182	O2P	A	A	60	124.215	57.439	12.336	1.00	73.23	A16S
ATOM	1183	O5*	A	A	60	125.249	55.214	12.043	1.00	48.97	A16S
ATOM	1184	C5*	A	A	60	124.384	54.555	12.955	1.00	48.97	A16S
ATOM	1185	C4*	A	A	60	123.343	53.794	12.196	1.00	48.97	A16S
ATOM	1186	O4*	A	A	60	122.417	54.727	11.599	1.00	48.97	A16S
ATOM	1187	C1*	A	A	60	122.111	54.315	10.285	1.00	48.97	A16S
ATOM	1188	N9	A	A	60	121.791	55.514	9.524	1.00	73.23	A16S
ATOM	1189	C4	A	A	60	120.589	55.768	8.917	1.00	73.23	A16S
ATOM	1190	N3	A	A	60	119.509	54.973	8.894	1.00	73.23	A16S
ATOM	1191	C2	A	A	60	118.518	55.551	8.228	1.00	73.23	A16S
ATOM	1192	N1	A	A	60	118.488	56.738	7.620	1.00	73.23	A16S
ATOM	1193	C6	A	A	60	119.593	57.511	7.652	1.00	73.23	A16S
ATOM	1194	N6	A	A	60	119.559	58.691	7.030	1.00	73.23	A16S
ATOM	1195	C5	A	A	60	120.713	57.016	8.340	1.00	73.23	A16S
ATOM	1196	N7	A	A	60	121.976	57.540	8.576	1.00	73.23	A16S
ATOM	1197	C8	A	A	60	122.577	56.610	9.278	1.00	73.23	A16S
ATOM	1198	C2*	A	A	60	123.322	53.545	9.764	1.00	48.97	A16S
ATOM	1199	O2*	A	A	60	122.895	52.593	8.816	1.00	48.97	A16S
ATOM	1200	C3*	A	A	60	123.867	52.941	11.054	1.00	48.97	A16S
ATOM	1201	O3*	A	A	60	124.246	51.579	11.280	1.00	48.97	A16S
ATOM	1202	P	G	A	61	123.160	50.491	11.773	1.00	60.83	A16S
ATOM	1203	O1P	G	A	61	123.934	49.310	12.238	1.00	45.73	A16S
ATOM	1204	O2P	G	A	61	122.070	50.313	10.761	1.00	45.73	A16S
ATOM	1205	O5*	G	A	61	122.548	51.116	13.098	1.00	60.83	A16S
ATOM	1206	C5*	G	A	61	121.276	50.677	13.585	1.00	60.83	A16S
ATOM	1207	C4*	G	A	61	120.265	51.761	13.373	1.00	60.83	A16S
ATOM	1208	O4*	G	A	61	120.198	52.071	11.963	1.00	60.83	A16S
ATOM	1209	C1*	G	A	61	118.875	52.436	11.618	1.00	60.83	A16S
ATOM	1210	N9	G	A	61	118.397	51.503	10.603	1.00	45.73	A16S
ATOM	1211	C4	G	A	61	117.233	51.608	9.884	1.00	45.73	A16S
ATOM	1212	N3	G	A	61	116.318	52.591	9.997	1.00	45.73	A16S
ATOM	1213	C2	G	A	61	115.311	52.420	9.159	1.00	45.73	A16S
ATOM	1214	N2	G	A	61	114.306	53.302	9.138	1.00	45.73	A16S
ATOM	1215	N1	G	A	61	115.213	51.370	8.283	1.00	45.73	A16S
ATOM	1216	C6	G	A	61	116.138	50.344	8.161	1.00	45.73	A16S
ATOM	1217	O6	G	A	61	115.945	49.431	7.352	1.00	45.73	A16S
ATOM	1218	C5	G	A	61	117.221	50.514	9.046	1.00	45.73	A16S
ATOM	1219	N7	G	A	61	118.353	49.735	9.234	1.00	45.73	A16S
ATOM	1220	C8	G	A	61	119.020	50.357	10.167	1.00	45.73	A16S
ATOM	1221	C2*	G	A	61	118.048	52.408	12.899	1.00	60.83	A16S
ATOM	1222	O2*	G	A	61	118.057	53.694	13.486	1.00	60.83	A16S
ATOM	1223	C3*	G	A	61	118.842	51.425	13.738	1.00	60.83	A16S
ATOM	1224	O3*	G	A	61	118.625	51.593	15.113	1.00	60.83	A16S
ATOM	1225	P	U	A	62	117.719	50.524	15.888	1.00	54.88	A16S



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ATOM	1226	O1P	U	A	62	117.919	49.180	15.266	1.00	46.61	A16S
ATOM	1227	O2P	U	A	62	117.994	50.710	17.331	1.00	46.61	A16S
ATOM	1228	O5*	U	A	62	116.228	50.947	15.541	1.00	54.88	A16S
ATOM	1229	C5*	U	A	62	115.822	52.317	15.540	1.00	54.88	A16S
ATOM	1230	C4*	U	A	62	114.527	52.444	14.790	1.00	54.88	A16S
ATOM	1231	O4*	U	A	62	114.759	52.245	13.380	1.00	54.88	A16S
ATOM	1232	C1*	U	A	62	113.710	51.489	12.815	1.00	54.88	A16S
ATOM	1233	N1	U	A	62	114.314	50.355	12.107	1.00	46.61	A16S
ATOM	1234	C6	U	A	62	115.472	49.770	12.565	1.00	46.61	A16S
ATOM	1235	C2	U	A	62	113.690	49.905	10.966	1.00	46.61	A16S
ATOM	1236	O2	U	A	62	112.664	50.392	10.539	1.00	46.61	A16S
ATOM	1237	N3	U	A	62	114.316	48.858	10.342	1.00	46.61	A16S
ATOM	1238	C4	U	A	62	115.482	48.232	10.737	1.00	46.61	A16S
ATOM	1239	O4	U	A	62	115.970	47.351	10.024	1.00	46.61	A16S
ATOM	1240	C5	U	A	62	116.061	48.753	11.938	1.00	46.61	A16S
ATOM	1241	C2*	U	A	62	112.717	51.129	13.923	1.00	54.88	A16S
ATOM	1242	O2*	U	A	62	111.562	51.924	13.815	1.00	54.88	A16S
ATOM	1243	C3*	U	A	62	113.551	51.362	15.184	1.00	54.88	A16S
ATOM	1244	O3*	U	A	62	112.840	51.805	16.331	1.00	54.88	A16S
ATOM	1245	P	C	A	63	111.882	50.790	17.108	1.00	47.94	A16S
ATOM	1246	O1P	C	A	63	112.495	49.437	16.990	1.00	55.38	A16S
ATOM	1247	O2P	C	A	63	111.581	51.345	18.456	1.00	55.38	A16S
ATOM	1248	O5*	C	A	63	110.563	50.848	16.227	1.00	47.94	A16S
ATOM	1249	C5*	C	A	63	109.712	49.736	16.168	1.00	47.94	A16S
ATOM	1250	C4*	C	A	63	108.694	49.910	15.087	1.00	47.94	A16S
ATOM	1251	O4*	C	A	63	109.345	50.196	13.828	1.00	47.94	A16S
ATOM	1252	C1*	C	A	63	108.767	49.398	12.802	1.00	47.94	A16S
ATOM	1253	N1	C	A	63	109.817	48.487	12.285	1.00	55.38	A16S
ATOM	1254	C6	C	A	63	110.967	48.269	13.001	1.00	55.38	A16S
ATOM	1255	C2	C	A	63	109.623	47.840	11.043	1.00	55.38	A16S
ATOM	1256	O2	C	A	63	108.579	48.050	10.407	1.00	55.38	A16S
ATOM	1257	N3	C	A	63	110.584	47.005	10.576	1.00	55.38	A16S
ATOM	1258	C4	C	A	63	111.699	46.805	11.289	1.00	55.38	A16S
ATOM	1259	N4	C	A	63	112.618	45.979	10.795	1.00	55.38	A16S
ATOM	1260	C5	C	A	63	111.922	47.447	12.546	1.00	55.38	A16S
ATOM	1261	C2*	C	A	63	107.570	48.652	13.405	1.00	47.94	A16S
ATOM	1262	O2*	C	A	63	106.362	49.348	13.157	1.00	47.94	A16S
ATOM	1263	C3*	C	A	63	107.967	48.599	14.876	1.00	47.94	A16S
ATOM	1264	O3*	C	A	63	106.909	48.488	15.808	1.00	47.94	A16S
ATOM	1265	P	G	A	64	107.164	47.770	17.228	1.00	81.38	A16S
ATOM	1266	O1P	G	A	64	106.450	48.586	18.241	1.00	66.40	A16S
ATOM	1267	O2P	G	A	64	108.597	47.448	17.445	1.00	66.40	A16S
ATOM	1268	O5*	G	A	64	106.339	46.422	17.055	1.00	81.38	A16S
ATOM	1269	C5*	G	A	64	104.979	46.467	16.568	1.00	81.38	A16S
ATOM	1270	C4*	G	A	64	104.376	45.092	16.583	1.00	81.38	A16S
ATOM	1271	O4*	G	A	64	105.184	44.257	15.735	1.00	81.38	A16S
ATOM	1272	C1*	G	A	64	105.142	42.943	16.222	1.00	81.38	A16S
ATOM	1273	N9	G	A	64	106.488	42.404	16.301	1.00	66.40	A16S
ATOM	1274	C4	G	A	64	106.892	41.253	15.688	1.00	66.40	A16S
ATOM	1275	N3	G	A	64	106.118	40.466	14.908	1.00	66.40	A16S
ATOM	1276	C2	G	A	64	106.767	39.410	14.473	1.00	66.40	A16S
ATOM	1277	N2	G	A	64	106.132	38.521	13.693	1.00	66.40	A16S
ATOM	1278	N1	G	A	64	108.082	39.149	14.773	1.00	66.40	A16S
ATOM	1279	C6	G	A	64	108.898	39.950	15.570	1.00	66.40	A16S
ATOM	1280	O6	G	A	64	110.072	39.622	15.776	1.00	66.40	A16S
ATOM	1281	C5	G	A	64	108.205	41.086	16.049	1.00	66.40	A16S
ATOM	1282	N7	G	A	64	108.628	42.128	16.867	1.00	66.40	A16S
ATOM	1283	C8	G	A	64	107.574	42.889	16.987	1.00	66.40	A16S
ATOM	1284	C2*	G	A	64	104.385	42.916	17.543	1.00	81.38	A16S
ATOM	1285	O2*	G	A	64	103.085	42.407	17.298	1.00	81.38	A16S
ATOM	1286	C3*	G	A	64	104.364	44.383	17.938	1.00	81.38	A16S
ATOM	1287	O3*	G	A	64	103.189	44.518	18.763	1.00	81.38	A16S
ATOM	1288	P	U	A	65	101.910	45.409	18.312	1.00	66.49	A16S
ATOM	1289	O1P	U	A	65	100.717	44.555	18.566	1.00	89.86	A16S
ATOM	1290	O2P	U	A	65	102.031	46.728	18.986	1.00	89.86	A16S
ATOM	1291	O5*	U	A	65	102.002	45.641	16.741	1.00	66.49	A16S
ATOM	1292	C5*	U	A	65	100.969	45.177	15.863	1.00	66.49	A16S
ATOM	1293	C4*	U	A	65	100.590	46.255	14.876	1.00	66.49	A16S
ATOM	1294	O4*	U	A	65	99.529	47.105	15.388	1.00	66.49	A16S
ATOM	1295	C1*	U	A	65	99.851	48.449	15.122	1.00	66.49	A16S
ATOM	1296	N1	U	A	65	99.188	49.319	16.103	1.00	89.86	A16S
ATOM	1297	C6	U	A	65	99.481	49.256	17.447	1.00	89.86	A16S
ATOM	1298	C2	U	A	65	98.255	50.221	15.618	1.00	89.86	A16S
ATOM	1299	O2	U	A	65	97.954	50.294	14.434	1.00	89.86	A16S
ATOM	1300	N3	U	A	65	97.685	51.031	16.570	1.00	89.86	A16S
ATOM	1301	C4	U	A	65	97.943	51.029	17.928	1.00	89.86	A16S
ATOM	1302	O4	U	A	65	97.379	51.850	18.655	1.00	89.86	A16S



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ATOM	1303	C5	U	A	65	98.906	50.059	18.351	1.00	89.86	A16S
ATOM	1304	C2*	U	A	65	101.374	48.499	15.117	1.00	66.49	A16S
ATOM	1305	O2*	U	A	65	101.815	49.644	14.417	1.00	66.49	A16S
ATOM	1306	C3*	U	A	65	101.706	47.186	14.411	1.00	66.49	A16S
ATOM	1307	O3*	U	A	65	101.584	47.376	13.008	1.00	66.49	A16S
ATOM	1308	P	G	A	66	102.675	46.731	12.024	1.00	67.49	A16S
ATOM	1309	O1P	G	A	66	103.748	46.108	12.859	1.00	57.46	A16S
ATOM	1310	O2P	G	A	66	103.028	47.765	11.012	1.00	57.46	A16S
ATOM	1311	O5*	G	A	66	101.887	45.571	11.275	1.00	67.49	A16S
ATOM	1312	C5*	G	A	66	100.745	45.867	10.456	1.00	67.49	A16S
ATOM	1313	C4*	G	A	66	100.816	45.079	9.179	1.00	67.49	A16S
ATOM	1314	O4*	G	A	66	101.936	45.557	8.397	1.00	67.49	A16S
ATOM	1315	C1*	G	A	66	102.600	44.470	7.780	1.00	67.49	A16S
ATOM	1316	N9	G	A	66	103.938	44.384	8.359	1.00	57.46	A16S
ATOM	1317	C4	G	A	66	104.882	43.409	8.121	1.00	57.46	A16S
ATOM	1318	N3	G	A	66	104.746	42.364	7.283	1.00	57.46	A16S
ATOM	1319	C2	G	A	66	105.799	41.574	7.314	1.00	57.46	A16S
ATOM	1320	N2	G	A	66	105.823	40.473	6.558	1.00	57.46	A16S
ATOM	1321	N1	G	A	66	106.906	41.800	8.092	1.00	57.46	A16S
ATOM	1322	C6	G	A	66	107.073	42.879	8.953	1.00	57.46	A16S
ATOM	1323	O6	G	A	66	108.119	43.001	9.607	1.00	57.46	A16S
ATOM	1324	C5	G	A	66	105.947	43.724	8.942	1.00	57.46	A16S
ATOM	1325	N7	G	A	66	105.693	44.883	9.663	1.00	57.46	A16S
ATOM	1326	C8	G	A	66	104.497	45.244	9.280	1.00	57.46	A16S
ATOM	1327	C2*	G	A	66	101.775	43.218	8.073	1.00	67.49	A16S
ATOM	1328	O2*	G	A	66	100.869	42.999	7.012	1.00	67.49	A16S
ATOM	1329	C3*	G	A	66	101.089	43.604	9.377	1.00	67.49	A16S
ATOM	1330	O3*	G	A	66	99.897	42.883	9.642	1.00	67.49	A16S
ATOM	1331	P	C	A	67	99.947	41.592	10.601	1.00	71.02	A16S
ATOM	1332	O1P	C	A	67	98.587	40.990	10.512	1.00	41.56	A16S
ATOM	1333	O2P	C	A	67	100.497	41.973	11.926	1.00	41.56	A16S
ATOM	1334	O5*	C	A	67	100.971	40.601	9.883	1.00	71.02	A16S
ATOM	1335	C5*	C	A	67	100.594	39.937	8.664	1.00	71.02	A16S
ATOM	1336	C4*	C	A	67	101.548	38.809	8.344	1.00	71.02	A16S
ATOM	1337	O4*	C	A	67	102.853	39.339	8.011	1.00	71.02	A16S
ATOM	1338	C1*	C	A	67	103.840	38.370	8.305	1.00	71.02	A16S
ATOM	1339	N1	C	A	67	104.820	38.942	9.235	1.00	41.56	A16S
ATOM	1340	C6	C	A	67	104.518	40.021	10.006	1.00	41.56	A16S
ATOM	1341	C2	C	A	67	106.085	38.346	9.322	1.00	41.56	A16S
ATOM	1342	O2	C	A	67	106.334	37.368	8.608	1.00	41.56	A16S
ATOM	1343	N3	C	A	67	106.999	38.844	10.181	1.00	41.56	A16S
ATOM	1344	C4	C	A	67	106.687	39.890	10.938	1.00	41.56	A16S
ATOM	1345	N4	C	A	67	107.603	40.335	11.790	1.00	41.56	A16S
ATOM	1346	C5	C	A	67	105.415	40.524	10.863	1.00	41.56	A16S
ATOM	1347	C2*	C	A	67	103.141	37.152	8.905	1.00	71.02	A16S
ATOM	1348	O2*	C	A	67	102.927	36.209	7.874	1.00	71.02	A16S
ATOM	1349	C3*	C	A	67	101.836	37.756	9.408	1.00	71.02	A16S
ATOM	1350	O3*	C	A	67	100.821	36.753	9.490	1.00	71.02	A16S
ATOM	1351	P	G	A	68	100.604	35.941	10.868	1.00	66.16	A16S
ATOM	1352	O1P	G	A	68	99.226	35.397	10.815	1.00	53.26	A16S
ATOM	1353	O2P	G	A	68	101.035	36.741	12.044	1.00	53.26	A16S
ATOM	1354	O5*	G	A	68	101.634	34.738	10.768	1.00	66.16	A16S
ATOM	1355	C5*	G	A	68	101.594	33.837	9.666	1.00	66.16	A16S
ATOM	1356	C4*	G	A	68	102.878	33.067	9.596	1.00	66.16	A16S
ATOM	1357	O4*	G	A	68	103.968	33.963	9.278	1.00	66.16	A16S
ATOM	1358	C1*	G	A	68	105.168	33.463	9.839	1.00	66.16	A16S
ATOM	1359	N9	G	A	68	105.765	34.460	10.721	1.00	53.26	A16S
ATOM	1360	C4	G	A	68	107.092	34.524	11.062	1.00	53.26	A16S
ATOM	1361	N3	G	A	68	108.061	33.711	10.605	1.00	53.26	A16S
ATOM	1362	C2	G	A	68	109.236	33.992	11.135	1.00	53.26	A16S
ATOM	1363	N2	G	A	68	110.317	33.275	10.780	1.00	53.26	A16S
ATOM	1364	N1	G	A	68	109.443	34.990	12.051	1.00	53.26	A16S
ATOM	1365	C6	G	A	68	108.459	35.839	12.540	1.00	53.26	A16S
ATOM	1366	O6	G	A	68	108.754	36.696	13.382	1.00	53.26	A16S
ATOM	1367	C5	G	A	68	107.192	35.555	11.964	1.00	53.26	A16S
ATOM	1368	N7	G	A	68	105.958	36.155	12.160	1.00	53.26	A16S
ATOM	1369	C8	G	A	68	105.142	35.476	11.397	1.00	53.26	A16S
ATOM	1370	C2*	G	A	68	104.818	32.201	10.616	1.00	66.16	A16S
ATOM	1371	O2*	G	A	68	105.080	31.081	9.790	1.00	66.16	A16S
ATOM	1372	C3*	G	A	68	103.334	32.409	10.881	1.00	66.16	A16S
ATOM	1373	O3*	G	A	68	102.659	31.193	11.123	1.00	66.16	A16S
ATOM	1374	P	G	A	69	103.040	30.317	12.416	1.00	66.33	A16S
ATOM	1375	O1P	G	A	69	102.154	29.122	12.349	1.00	68.23	A16S
ATOM	1376	O2P	G	A	69	103.049	31.158	13.639	1.00	68.23	A16S
ATOM	1377	O5*	G	A	69	104.540	29.861	12.134	1.00	66.33	A16S
ATOM	1378	C5*	G	A	69	105.434	29.539	13.210	1.00	66.33	A16S
ATOM	1379	C4*	G	A	69	106.854	29.460	12.703	1.00	66.33	A16S



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ATOM	1380	O4*	G	A	69	107.271	30.778	12.265	1.00	66.33	A16S
ATOM	1381	C1*	G	A	69	108.637	30.980	12.588	1.00	66.33	A16S
ATOM	1382	N9	G	A	69	108.734	32.100	13.515	1.00	68.23	A16S
ATOM	1383	C4	G	A	69	109.892	32.604	14.050	1.00	68.23	A16S
ATOM	1384	N3	G	A	69	111.145	32.176	13.775	1.00	68.23	A16S
ATOM	1385	C2	G	A	69	112.055	32.839	14.474	1.00	68.23	A16S
ATOM	1386	N2	G	A	69	113.357	32.541	14.326	1.00	68.23	A16S
ATOM	1387	N1	G	A	69	111.752	33.841	15.369	1.00	68.23	A16S
ATOM	1388	C6	G	A	69	110.466	34.293	15.660	1.00	68.23	A16S
ATOM	1389	O6	G	A	69	110.296	35.195	16.489	1.00	68.23	A16S
ATOM	1390	C5	G	A	69	109.490	33.597	14.916	1.00	68.23	A16S
ATOM	1391	N7	G	A	69	108.111	33.737	14.900	1.00	68.23	A16S
ATOM	1392	C8	G	A	69	107.705	32.835	14.050	1.00	68.23	A16S
ATOM	1393	C2*	G	A	69	109.167	29.699	13.229	1.00	66.33	A16S
ATOM	1394	O2*	G	A	69	109.849	28.936	12.253	1.00	66.33	A16S
ATOM	1395	C3*	G	A	69	107.880	29.072	13.754	1.00	66.33	A16S
ATOM	1396	O3*	G	A	69	107.957	27.664	13.926	1.00	66.33	A16S
ATOM	1397	P	G	A	70	108.356	27.059	15.365	1.00	77.00	A16S
ATOM	1398	O1P	G	A	70	108.109	25.607	15.235	1.00	73.06	A16S
ATOM	1399	O2P	G	A	70	107.701	27.827	16.468	1.00	73.06	A16S
ATOM	1400	O5*	G	A	70	109.927	27.303	15.470	1.00	77.00	A16S
ATOM	1401	C5*	G	A	70	110.830	26.707	14.519	1.00	77.00	A16S
ATOM	1402	C4*	G	A	70	112.255	27.020	14.890	1.00	77.00	A16S
ATOM	1403	O4*	G	A	70	112.529	28.426	14.669	1.00	77.00	A16S
ATOM	1404	C1*	G	A	70	113.385	28.914	15.691	1.00	77.00	A16S
ATOM	1405	N9	G	A	70	112.661	29.944	16.432	1.00	73.06	A16S
ATOM	1406	C4	G	A	70	113.193	30.839	17.330	1.00	73.06	A16S
ATOM	1407	N3	G	A	70	114.487	30.907	17.717	1.00	73.06	A16S
ATOM	1408	C2	G	A	70	114.695	31.891	18.583	1.00	73.06	A16S
ATOM	1409	N2	G	A	70	115.930	32.111	19.076	1.00	73.06	A16S
ATOM	1410	N1	G	A	70	113.709	32.737	19.032	1.00	73.06	A16S
ATOM	1411	C6	G	A	70	112.369	32.683	18.647	1.00	73.06	A16S
ATOM	1412	O6	G	A	70	111.556	33.502	19.110	1.00	73.06	A16S
ATOM	1413	C5	G	A	70	112.134	31.631	17.724	1.00	73.06	A16S
ATOM	1414	N7	G	A	70	110.958	31.227	17.109	1.00	73.06	A16S
ATOM	1415	C8	G	A	70	111.316	30.223	16.358	1.00	73.06	A16S
ATOM	1416	C2*	G	A	70	113.758	27.730	16.578	1.00	77.00	A16S
ATOM	1417	O2*	G	A	70	114.959	27.139	16.130	1.00	77.00	A16S
ATOM	1418	C3*	G	A	70	112.574	26.811	16.353	1.00	77.00	A16S
ATOM	1419	O3*	G	A	70	112.869	25.475	16.656	1.00	77.00	A16S
ATOM	1420	P	C	A	73	112.370	24.872	18.052	1.00	67.49	A16S
ATOM	1421	O1P	C	A	73	112.614	23.409	17.953	1.00	79.18	A16S
ATOM	1422	O2P	C	A	73	110.987	25.377	18.329	1.00	79.18	A16S
ATOM	1423	O5*	C	A	73	113.362	25.513	19.124	1.00	67.49	A16S
ATOM	1424	C5*	C	A	73	114.775	25.309	19.028	1.00	67.49	A16S
ATOM	1425	C4*	C	A	73	115.503	26.306	19.895	1.00	67.49	A16S
ATOM	1426	O4*	C	A	73	115.211	27.654	19.439	1.00	67.49	A16S
ATOM	1427	C1*	C	A	73	115.129	28.534	20.551	1.00	67.49	A16S
ATOM	1428	N1	C	A	73	113.765	29.107	20.594	1.00	79.18	A16S
ATOM	1429	C6	C	A	73	112.737	28.539	19.889	1.00	79.18	A16S
ATOM	1430	C2	C	A	73	113.536	30.252	21.367	1.00	79.18	A16S
ATOM	1431	O2	C	A	73	114.475	30.739	22.006	1.00	79.18	A16S
ATOM	1432	N3	C	A	73	112.300	30.794	21.400	1.00	79.18	A16S
ATOM	1433	C4	C	A	73	111.309	30.237	20.701	1.00	79.18	A16S
ATOM	1434	N4	C	A	73	110.107	30.813	20.754	1.00	79.18	A16S
ATOM	1435	C5	C	A	73	111.508	29.066	19.914	1.00	79.18	A16S
ATOM	1436	C2*	C	A	73	115.477	27.730	21.801	1.00	67.49	A16S
ATOM	1437	O2*	C	A	73	116.854	27.887	22.092	1.00	67.49	A16S
ATOM	1438	C3*	C	A	73	115.104	26.320	21.357	1.00	67.49	A16S
ATOM	1439	O3*	C	A	73	115.761	25.310	22.089	1.00	67.49	A16S
ATOM	1440	P	C	A	74	114.981	24.587	23.285	1.00	96.85	A16S
ATOM	1441	O1P	C	A	74	115.841	23.457	23.686	1.00	59.12	A16S
ATOM	1442	O2P	C	A	74	113.567	24.333	22.889	1.00	59.12	A16S
ATOM	1443	O5*	C	A	74	114.997	25.675	24.442	1.00	96.85	A16S
ATOM	1444	C5*	C	A	74	116.222	26.006	25.103	1.00	96.85	A16S
ATOM	1445	C4*	C	A	74	115.977	27.025	26.185	1.00	96.85	A16S
ATOM	1446	O4*	C	A	74	115.660	28.314	25.598	1.00	96.85	A16S
ATOM	1447	C1*	C	A	74	114.757	29.010	26.440	1.00	96.85	A16S
ATOM	1448	N1	C	A	74	113.504	29.237	25.704	1.00	59.12	A16S
ATOM	1449	C6	C	A	74	113.174	28.464	24.625	1.00	59.12	A16S
ATOM	1450	C2	C	A	74	112.636	30.264	26.131	1.00	59.12	A16S
ATOM	1451	O2	C	A	74	112.954	30.958	27.111	1.00	59.12	A16S
ATOM	1452	N3	C	A	74	111.476	30.470	25.467	1.00	59.12	A16S
ATOM	1453	C4	C	A	74	111.161	29.703	24.422	1.00	59.12	A16S
ATOM	1454	N4	C	A	74	109.993	29.929	23.808	1.00	59.12	A16S
ATOM	1455	C5	C	A	74	112.026	28.661	23.960	1.00	59.12	A16S
ATOM	1456	C2*	C	A	74	114.519	28.142	27.670	1.00	96.85	A16S



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ATOM	1457	O2*	C	A	74	115.436	28.520	28.676	1.00	96.85	A16S
ATOM	1458	C3*	C	A	74	114.818	26.753	27.127	1.00	96.85	A16S
ATOM	1459	O3*	C	A	74	115.152	25.850	28.162	1.00	96.85	A16S
ATOM	1460	P	G	A	75	113.988	25.016	28.888	1.00	93.46	A16S
ATOM	1461	O1P	G	A	75	114.722	24.354	30.001	1.00	63.61	A16S
ATOM	1462	O2P	G	A	75	113.235	24.195	27.903	1.00	63.61	A16S
ATOM	1463	O5*	G	A	75	112.989	26.122	29.471	1.00	93.46	A16S
ATOM	1464	C5*	G	A	75	113.417	26.955	30.558	1.00	93.46	A16S
ATOM	1465	C4*	G	A	75	112.314	27.868	31.056	1.00	93.46	A16S
ATOM	1466	O4*	G	A	75	112.038	28.949	30.132	1.00	93.46	A16S
ATOM	1467	C1*	G	A	75	110.783	29.521	30.459	1.00	93.46	A16S
ATOM	1468	N9	G	A	75	109.907	29.517	29.294	1.00	63.61	A16S
ATOM	1469	C4	G	A	75	108.808	30.321	29.125	1.00	63.61	A16S
ATOM	1470	N3	G	A	75	108.400	31.285	29.975	1.00	63.61	A16S
ATOM	1471	C2	G	A	75	107.284	31.858	29.570	1.00	63.61	A16S
ATOM	1472	N2	G	A	75	106.739	32.844	30.308	1.00	63.61	A16S
ATOM	1473	N1	G	A	75	106.618	31.509	28.415	1.00	63.61	A16S
ATOM	1474	C6	G	A	75	107.021	30.518	27.524	1.00	63.61	A16S
ATOM	1475	O6	G	A	75	106.338	30.273	26.511	1.00	63.61	A16S
ATOM	1476	C5	G	A	75	108.223	29.900	27.951	1.00	63.61	A16S
ATOM	1477	N7	G	A	75	108.961	28.875	27.373	1.00	63.61	A16S
ATOM	1478	C8	G	A	75	109.958	28.691	28.196	1.00	63.61	A16S
ATOM	1479	C2*	G	A	75	110.156	28.648	31.544	1.00	93.46	A16S
ATOM	1480	O2*	G	A	75	110.389	29.273	32.788	1.00	93.46	A16S
ATOM	1481	C3*	G	A	75	110.934	27.343	31.396	1.00	93.46	A16S
ATOM	1482	O3*	G	A	75	110.900	26.627	32.620	1.00	93.46	A16S
ATOM	1483	P	C	A	76	109.583	25.783	33.015	1.00	82.83	A16S
ATOM	1484	O1P	C	A	76	109.959	25.025	34.235	1.00	49.92	A16S
ATOM	1485	O2P	C	A	76	109.032	25.053	31.834	1.00	49.92	A16S
ATOM	1486	O5*	C	A	76	108.519	26.898	33.409	1.00	82.83	A16S
ATOM	1487	C5*	C	A	76	108.700	27.692	34.588	1.00	82.83	A16S
ATOM	1488	C4*	C	A	76	107.589	28.699	34.716	1.00	82.83	A16S
ATOM	1489	O4*	C	A	76	107.640	29.618	33.594	1.00	82.83	A16S
ATOM	1490	C1*	C	A	76	106.326	30.010	33.243	1.00	82.83	A16S
ATOM	1491	N1	C	A	76	106.031	29.545	31.884	1.00	49.92	A16S
ATOM	1492	C6	C	A	76	106.766	28.557	31.294	1.00	49.92	A16S
ATOM	1493	C2	C	A	76	104.944	30.110	31.219	1.00	49.92	A16S
ATOM	1494	O2	C	A	76	104.333	31.044	31.766	1.00	49.92	A16S
ATOM	1495	N3	C	A	76	104.585	29.632	30.009	1.00	49.92	A16S
ATOM	1496	C4	C	A	76	105.277	28.634	29.460	1.00	49.92	A16S
ATOM	1497	N4	C	A	76	104.862	28.156	28.285	1.00	49.92	A16S
ATOM	1498	C5	C	A	76	106.424	28.071	30.097	1.00	49.92	A16S
ATOM	1499	C2*	C	A	76	105.362	29.331	34.212	1.00	82.83	A16S
ATOM	1500	O2*	C	A	76	105.019	30.234	35.241	1.00	82.83	A16S
ATOM	1501	C3*	C	A	76	106.184	28.133	34.663	1.00	82.83	A16S
ATOM	1502	O3*	C	A	76	105.751	27.599	35.895	1.00	82.83	A16S
ATOM	1503	P	G	A	77	104.580	26.505	35.897	1.00	60.26	A16S
ATOM	1504	O1P	G	A	77	104.395	26.031	37.292	1.00	61.87	A16S
ATOM	1505	O2P	G	A	77	104.849	25.516	34.817	1.00	61.87	A16S
ATOM	1506	O5*	G	A	77	103.301	27.343	35.466	1.00	60.26	A16S
ATOM	1507	C5*	G	A	77	102.792	28.378	36.307	1.00	60.26	A16S
ATOM	1508	C4*	G	A	77	101.531	28.946	35.720	1.00	60.26	A16S
ATOM	1509	O4*	G	A	77	101.840	29.651	34.492	1.00	60.26	A16S
ATOM	1510	C1*	G	A	77	100.781	29.474	33.555	1.00	60.26	A16S
ATOM	1511	N9	G	A	77	101.291	28.734	32.403	1.00	61.87	A16S
ATOM	1512	C4	G	A	77	100.673	28.589	31.183	1.00	61.87	A16S
ATOM	1513	N3	G	A	77	99.527	29.184	30.796	1.00	61.87	A16S
ATOM	1514	C2	G	A	77	99.156	28.804	29.584	1.00	61.87	A16S
ATOM	1515	N2	G	A	77	98.063	29.322	29.034	1.00	61.87	A16S
ATOM	1516	N1	G	A	77	99.835	27.892	28.820	1.00	61.87	A16S
ATOM	1517	C6	G	A	77	101.011	27.253	29.204	1.00	61.87	A16S
ATOM	1518	O6	G	A	77	101.525	26.404	28.460	1.00	61.87	A16S
ATOM	1519	C5	G	A	77	101.447	27.688	30.490	1.00	61.87	A16S
ATOM	1520	N7	G	A	77	102.569	27.334	31.226	1.00	61.87	A16S
ATOM	1521	C8	G	A	77	102.440	27.986	32.347	1.00	61.87	A16S
ATOM	1522	C2*	G	A	77	99.695	28.651	34.249	1.00	60.26	A16S
ATOM	1523	O2*	G	A	77	98.718	29.504	34.810	1.00	60.26	A16S
ATOM	1524	C3*	G	A	77	100.502	27.917	35.305	1.00	60.26	A16S
ATOM	1525	O3*	G	A	77	99.706	27.474	36.375	1.00	60.26	A16S
ATOM	1526	P	G	A	78	98.953	26.067	36.247	1.00	55.41	A16S
ATOM	1527	O1P	G	A	78	98.203	25.874	37.516	1.00	61.96	A16S
ATOM	1528	O2P	G	A	78	99.939	25.035	35.806	1.00	61.96	A16S
ATOM	1529	O5*	G	A	78	97.900	26.315	35.085	1.00	55.41	A16S
ATOM	1530	C5*	G	A	78	96.861	27.259	35.283	1.00	55.41	A16S
ATOM	1531	C4*	G	A	78	95.922	27.257	34.120	1.00	55.41	A16S
ATOM	1532	O4*	G	A	78	96.612	27.698	32.929	1.00	55.41	A16S
ATOM	1533	C1*	G	A	78	96.042	27.073	31.797	1.00	55.41	A16S



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ATOM	1534	N9	G	A	78	97.087	26.356	31.071	1.00	61.96	A16S
ATOM	1535	C4	G	A	78	96.994	25.883	29.782	1.00	61.96	A16S
ATOM	1536	N3	G	A	78	95.941	26.039	28.957	1.00	61.96	A16S
ATOM	1537	C2	G	A	78	96.131	25.452	27.791	1.00	61.96	A16S
ATOM	1538	N2	G	A	78	95.176	25.522	26.853	1.00	61.96	A16S
ATOM	1539	N1	G	A	78	97.263	24.756	27.460	1.00	61.96	A16S
ATOM	1540	C6	G	A	78	98.358	24.576	28.293	1.00	61.96	A16S
ATOM	1541	O6	G	A	78	99.322	23.913	27.902	1.00	61.96	A16S
ATOM	1542	C5	G	A	78	98.173	25.218	29.549	1.00	61.96	A16S
ATOM	1543	N7	G	A	78	99.011	25.298	30.656	1.00	61.96	A16S
ATOM	1544	C8	G	A	78	98.328	25.988	31.530	1.00	61.96	A16S
ATOM	1545	C2*	G	A	78	94.930	26.144	32.294	1.00	55.41	A16S
ATOM	1546	O2* G	A	78	93.684	26.803	32.182	1.00	55.41	A16S	
ATOM	1547	C3* G	A	78	95.335	25.916	33.745	1.00	55.41	A16S	
ATOM	1548	O3* G	A	78	94.236	25.589	34.591	1.00	55.41	A16S	
ATOM	1549	P G	A	79	93.524	24.151	34.452	1.00	64.73	A16S	
ATOM	1550	O1P G	A	79	94.603	23.121	34.499	1.00	58.41	A16S	
ATOM	1551	O2P G	A	79	92.384	24.069	35.413	1.00	58.41	A16S	
ATOM	1552	O5* G	A	79	92.915	24.215	32.979	1.00	64.73	A16S	
ATOM	1553	C5* G	A	79	92.631	23.025	32.232	1.00	64.73	A16S	
ATOM	1554	C4* G	A	79	92.314	23.381	30.802	1.00	64.73	A16S	
ATOM	1555	O4* G	A	79	93.484	23.943	30.155	1.00	64.73	A16S	
ATOM	1556	C1* G	A	79	93.518	23.536	28.795	1.00	64.73	A16S	
ATOM	1557	N9 G	A	79	94.742	22.777	28.569	1.00	58.41	A16S	
ATOM	1558	C4 G	A	79	95.054	22.086	27.424	1.00	58.41	A16S	
ATOM	1559	N3 G	A	79	94.284	22.004	26.318	1.00	58.41	A16S	
ATOM	1560	C2 G	A	79	94.834	21.247	25.392	1.00	58.41	A16S	
ATOM	1561	N2 G	A	79	94.189	21.047	24.229	1.00	58.41	A16S	
ATOM	1562	N1 G	A	79	96.049	20.629	25.538	1.00	58.41	A16S	
ATOM	1563	C6 G	A	79	96.853	20.701	26.667	1.00	58.41	A16S	
ATOM	1564	O6 G	A	79	97.918	20.092	26.700	1.00	58.41	A16S	
ATOM	1565	C5 G	A	79	96.276	21.506	27.666	1.00	58.41	A16S	
ATOM	1566	N7 G	A	79	96.736	21.836	28.936	1.00	58.41	A16S	
ATOM	1567	C8 G	A	79	95.795	22.591	29.434	1.00	58.41	A16S	
ATOM	1568	C2* G	A	79	92.285	22.670	28.526	1.00	64.73	A16S	
ATOM	1569	O2* G	A	79	91.278	23.413	27.860	1.00	64.73	A16S	
ATOM	1570	C3* G	A	79	91.939	22.200	29.933	1.00	64.73	A16S	
ATOM	1571	O3* G	A	79	90.584	21.883	30.099	1.00	64.73	A16S	
ATOM	1572	P G	A	80	90.173	20.372	30.355	1.00	66.79	A16S	
ATOM	1573	O1P G	A	80	88.729	20.396	30.663	1.00	62.22	A16S	
ATOM	1574	O2P G	A	80	91.125	19.761	31.316	1.00	62.22	A16S	
ATOM	1575	O5*-G	A	80	90.393	19.694	28.935	1.00	66.79	A16S	
ATOM	1576	C5* G	A	80	89.415	19.854	27.910	1.00	66.79	A16S	
ATOM	1577	C4* G	A	80	89.769	19.015	26.716	1.00	66.79	A16S	
ATOM	1578	O4* G	A	80	91.005	19.516	26.139	1.00	66.79	A16S	
ATOM	1579	C1* G	A	80	91.720	18.445	25.551	1.00	66.79	A16S	
ATOM	1580	N9 G	A	80	93.027	18.361	26.192	1.00	62.22	A16S	
ATOM	1581	C4 G	A	80	94.132	17.686	25.724	1.00	62.22	A16S	
ATOM	1582	N3 G	A	80	94.219	17.014	24.557	1.00	62.22	A16S	
ATOM	1583	C2 G	A	80	95.410	16.465	24.395	1.00	62.22	A16S	
ATOM	1584	N2 G	A	80	95.679	15.785	23.280	1.00	62.22	A16S	
ATOM	1585	N1 G	A	80	96.426	16.550	25.314	1.00	62.22	A16S	
ATOM	1586	C6 G	A	80	96.353	17.232	26.523	1.00	62.22	A16S	
ATOM	1587	O6 G	A	80	97.324	17.244	27.289	1.00	62.22	A16S	
ATOM	1588	C5 G	A	80	95.093	17.843	26.698	1.00	62.22	A16S	
ATOM	1589	N7 G	A	80	94.616	18.622	27.739	1.00	62.22	A16S	
ATOM	1590	C8 G	A	80	93.390	18.910	27.395	1.00	62.22	A16S	
ATOM	1591	C2* G	A	80	90.894	17.167	25.748	1.00	66.79	A16S	
ATOM	1592	O2* G	A	80	90.140	16.924	24.574	1.00	66.79	A16S	
ATOM	1593	C3* G	A	80	90.025	17.531	26.953	1.00	66.79	A16S	
ATOM	1594	O3* G	A	80	88.814	16.762	27.056	1.00	66.79	A16S	
ATOM	1595	P U	A	81	88.868	15.199	27.460	1.00	160.29	A16S	
ATOM	1596	O1P U	A	81	89.452	14.474	26.309	1.00	189.93	A16S	
ATOM	1597	O2P U	A	81	87.518	14.831	27.941	1.00	189.93	A16S	
ATOM	1598	O5* U	A	81	89.864	15.061	28.705	1.00	160.29	A16S	
ATOM	1599	C5* U	A	81	91.235	15.541	28.656	1.00	160.29	A16S	
ATOM	1600	C4* U	A	81	92.228	14.398	28.465	1.00	160.29	A16S	
ATOM	1601	O4* U	A	81	93.541	14.979	28.235	1.00	160.29	A16S	
ATOM	1602	C1* U	A	81	94.544	14.168	28.828	1.00	160.29	A16S	
ATOM	1603	N1 U	A	81	95.307	14.985	29.789	1.00	189.93	A16S	
ATOM	1604	C6 U	A	81	94.671	15.876	30.634	1.00	189.93	A16S	
ATOM	1605	C2 U	A	81	96.695	14.838	29.821	1.00	189.93	A16S	
ATOM	1606	O2 U	A	81	97.310	14.053	29.105	1.00	189.93	A16S	
ATOM	1607	N3 U	A	81	97.337	15.648	30.727	1.00	189.93	A16S	
ATOM	1608	C4 U	A	81	96.759	16.565	31.586	1.00	189.93	A16S	
ATOM	1609	O4 U	A	81	97.481	17.255	32.308	1.00	189.93	A16S	
ATOM	1610	C5 U	A	81	95.331	16.647	31.504	1.00	189.93	A16S	



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ATOM	1611	C2*	U	A	81	93.865	12.943	29.447	1.00160.29	A16S
ATOM	1612	O2*	U	A	81	93.978	11.837	28.569	1.00160.29	A16S
ATOM	1613	C3*	U	A	81	92.427	13.428	29.632	1.00160.29	A16S
ATOM	1614	O3*	U	A	81	91.547	12.310	29.545	1.00160.29	A16S
ATOM	1615	P	U	A	82	90.769	11.792	30.853	1.00 97.43	A16S
ATOM	1616	O1P	U	A	82	90.331	10.393	30.564	1.00 75.18	A16S
ATOM	1617	O2P	U	A	82	89.746	12.836	31.186	1.00 75.18	A16S
ATOM	1618	O5*	U	A	82	91.873	11.729	32.007	1.00 97.43	A16S
ATOM	1619	C5*	U	A	82	91.545	12.110	33.365	1.00 97.43	A16S
ATOM	1620	C4*	U	A	82	92.205	11.183	34.364	1.00 97.43	A16S
ATOM	1621	O4*	U	A	82	91.602	9.860	34.330	1.00 97.43	A16S
ATOM	1622	C1*	U	A	82	92.591	8.872	34.604	1.00 97.43	A16S
ATOM	1623	N1	U	A	82	92.651	7.913	33.480	1.00 75.18	A16S
ATOM	1624	C6	U	A	82	91.860	8.063	32.359	1.00 75.18	A16S
ATOM	1625	C2	U	A	82	93.543	6.848	33.574	1.00 75.18	A16S
ATOM	1626	O2	U	A	82	94.247	6.648	34.556	1.00 75.18	A16S
ATOM	1627	N3	U	A	82	93.577	6.023	32.477	1.00 75.18	A16S
ATOM	1628	C4	U	A	82	92.826	6.130	31.332	1.00 75.18	A16S
ATOM	1629	O4	U	A	82	92.984	5.314	30.428	1.00 75.18	A16S
ATOM	1630	C5	U	A	82	91.917	7.229	31.314	1.00 75.18	A16S
ATOM	1631	C2*	U	A	82	93.915	9.601	34.850	1.00 97.43	A16S
ATOM	1632	O2*	U	A	82	94.132	9.727	36.238	1.00 97.43	A16S
ATOM	1633	C3*	U	A	82	93.682	10.933	34.144	1.00 97.43	A16S
ATOM	1634	O3*	U	A	82	94.477	11.991	34.648	1.00 97.43	A16S
ATOM	1635	P	U	A	83	95.678	12.554	33.751	1.00 78.70	A16S
ATOM	1636	O1P	U	A	83	96.381	13.632	34.493	1.00 71.21	A16S
ATOM	1637	O2P	U	A	83	95.129	12.830	32.405	1.00 71.21	A16S
ATOM	1638	O5*	U	A	83	96.663	11.317	33.657	1.00 78.70	A16S
ATOM	1639	C5*	U	A	83	97.306	10.845	34.831	1.00 78.70	A16S
ATOM	1640	C4*	U	A	83	98.082	9.601	34.530	1.00 78.70	A16S
ATOM	1641	O4*	U	A	83	97.169	8.537	34.175	1.00 78.70	A16S
ATOM	1642	C1*	U	A	83	97.795	7.667	33.249	1.00 78.70	A16S
ATOM	1643	N1	U	A	83	96.988	7.609	32.021	1.00 71.21	A16S
ATOM	1644	C6	U	A	83	95.870	8.393	31.840	1.00 71.21	A16S
ATOM	1645	C2	U	A	83	97.404	6.730	31.043	1.00 71.21	A16S
ATOM	1646	O2	U	A	83	98.390	6.014	31.174	1.00 71.21	A16S
ATOM	1647	N3	U	A	83	96.629	6.717	29.908	1.00 71.21	A16S
ATOM	1648	C4	U	A	83	95.507	7.478	29.657	1.00 71.21	A16S
ATOM	1649	O4	U	A	83	94.964	7.409	28.551	1.00 71.21	A16S
ATOM	1650	C5	U	A	83	95.134	8.357	30.723	1.00 71.21	A16S
ATOM	1651	C2*	U	A	83	99.199	8.205	32.984	1.00 78.70	A16S
ATOM	1652	O2*	U	A	83	100.110	7.515	33.823	1.00 78.70	A16S
ATOM	1653	C3*	U	A	83	99.034	9.673	33.351	1.00 78.70	A16S
ATOM	1654	O3*	U	A	83	100.259	10.312	33.678	1.00 78.70	A16S
ATOM	1655	P	U	A	84	100.907	11.343	32.631	1.00 89.53	A16S
ATOM	1656	O1P	U	A	84	102.127	11.917	33.268	1.00 71.06	A16S
ATOM	1657	O2P	U	A	84	99.821	12.254	32.155	1.00 71.06	A16S
ATOM	1658	O5*	U	A	84	101.330	10.412	31.405	1.00 89.53	A16S
ATOM	1659	C5*	U	A	84	102.313	9.367	31.581	1.00 89.53	A16S
ATOM	1660	C4*	U	A	84	102.407	8.496	30.345	1.00 89.53	A16S
ATOM	1661	O4*	U	A	84	101.157	7.789	30.147	1.00 89.53	A16S
ATOM	1662	C1*	U	A	84	100.903	7.656	28.766	1.00 89.53	A16S
ATOM	1663	N1	U	A	84	99.683	8.406	28.431	1.00 71.06	A16S
ATOM	1664	C6	U	A	84	99.136	9.371	29.268	1.00 71.06	A16S
ATOM	1665	C2	U	A	84	99.091	8.106	27.225	1.00 71.06	A16S
ATOM	1666	O2	U	A	84	99.574	7.310	26.446	1.00 71.06	A16S
ATOM	1667	N3	U	A	84	97.928	8.785	26.954	1.00 71.06	A16S
ATOM	1668	C4	U	A	84	97.319	9.742	27.734	1.00 71.06	A16S
ATOM	1669	O4	U	A	84	96.265	10.254	27.341	1.00 71.06	A16S
ATOM	1670	C5	U	A	84	98.008	10.037	28.966	1.00 71.06	A16S
ATOM	1671	C2*	U	A	84	102.110	8.203	28.019	1.00 89.53	A16S
ATOM	1672	O2*	U	A	84	102.982	7.120	27.778	1.00 89.53	A16S
ATOM	1673	C3*	U	A	84	102.652	9.209	29.025	1.00 89.53	A16S
ATOM	1674	O3*	U	A	84	104.026	9.534	28.823	1.00 89.53	A16S
ATOM	1675	P	A	A	88	104.422	10.980	28.223	1.00 84.38	A16S
ATOM	1676	O1P	A	A	88	105.891	11.150	28.394	1.00 89.17	A16S
ATOM	1677	O2P	A	A	88	103.496	12.010	28.772	1.00 89.17	A16S
ATOM	1678	O5*	A	A	88	104.111	10.845	26.667	1.00 84.38	A16S
ATOM	1679	C5*	A	A	88	104.843	9.919	25.856	1.00 84.38	A16S
ATOM	1680	C4*	A	A	88	104.105	9.656	24.569	1.00 84.38	A16S
ATOM	1681	O4*	A	A	88	102.826	9.039	24.866	1.00 84.38	A16S
ATOM	1682	C1*	A	A	88	101.859	9.470	23.929	1.00 84.38	A16S
ATOM	1683	N9	A	A	88	100.839	10.229	24.648	1.00 89.17	A16S
ATOM	1684	C4	A	A	88	99.591	10.565	24.176	1.00 89.17	A16S
ATOM	1685	N3	A	A	88	99.039	10.209	23.003	1.00 89.17	A16S
ATOM	1686	C2	A	A	88	97.829	10.752	22.870	1.00 89.17	A16S
ATOM	1687	N1	A	A	88	97.161	11.562	23.706	1.00 89.17	A16S



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ATOM	1688	C6	A	A	88	97.746	11.912	24.872	1.00	89.17	A16S
ATOM	1689	N6	A	A	88	97.091	12.749	25.691	1.00	89.17	A16S
ATOM	1690	C5	A	A	88	99.028	11.380	25.146	1.00	89.17	A16S
ATOM	1691	N7	A	A	88	99.885	11.512	26.231	1.00	89.17	A16S
ATOM	1692	C8	A	A	88	100.936	10.803	25.891	1.00	89.17	A16S
ATOM	1693	C2*	A	A	88	102.572	10.369	22.916	1.00	84.38	A16S
ATOM	1694	O2*	A	A	88	102.956	9.603	21.789	1.00	84.38	A16S
ATOM	1695	C3*	A	A	88	103.756	10.877	23.733	1.00	84.38	A16S
ATOM	1696	O3*	A	A	88	104.855	11.309	22.926	1.00	84.38	A16S
ATOM	1697	P	C	A	89	105.200	12.882	22.815	1.00	71.87	A16S
ATOM	1698	O1P	C	A	89	106.393	13.019	21.948	1.00	94.05	A16S
ATOM	1699	O2P	C	A	89	105.205	13.497	24.170	1.00	94.05	A16S
ATOM	1700	O5*	C	A	89	103.972	13.471	21.992	1.00	71.87	A16S
ATOM	1701	C5*	C	A	89	103.574	12.872	20.746	1.00	71.87	A16S
ATOM	1702	C4*	C	A	89	102.135	13.203	20.441	1.00	71.87	A16S
ATOM	1703	O4*	C	A	89	101.289	12.719	21.517	1.00	71.87	A16S
ATOM	1704	C1*	C	A	89	100.195	13.605	21.709	1.00	71.87	A16S
ATOM	1705	N1	C	A	89	100.227	14.125	23.098	1.00	94.05	A16S
ATOM	1706	C6	C	A	89	101.221	13.756	23.964	1.00	94.05	A16S
ATOM	1707	C2	C	A	89	99.199	14.998	23.531	1.00	94.05	A16S
ATOM	1708	O2	C	A	89	98.326	15.359	22.719	1.00	94.05	A16S
ATOM	1709	N3	C	A	89	99.192	15.423	24.821	1.00	94.05	A16S
ATOM	1710	C4	C	A	89	100.155	15.024	25.662	1.00	94.05	A16S
ATOM	1711	N4	C	A	89	100.091	15.434	26.937	1.00	94.05	A16S
ATOM	1712	C5	C	A	89	101.224	14.176	25.239	1.00	94.05	A16S
ATOM	1713	C2*	C	A	89	100.302	14.686	20.639	1.00	71.87	A16S
ATOM	1714	O2*	C	A	89	99.529	14.270	19.523	1.00	71.87	A16S
ATOM	1715	C3*	C	A	89	101.797	14.678	20.355	1.00	71.87	A16S
ATOM	1716	O3*	C	A	89	102.122	15.226	19.094	1.00	71.87	A16S
ATOM	1717	P	U	A	90	102.698	16.722	19.018	1.00	58.54	A16S
ATOM	1718	O1P	U	A	90	103.114	16.946	17.612	1.00	72.99	A16S
ATOM	1719	O2P	U	A	90	103.684	16.907	20.120	1.00	72.99	A16S
ATOM	1720	O5*	U	A	90	101.427	17.634	19.313	1.00	58.54	A16S
ATOM	1721	C5*	U	A	90	100.260	17.528	18.487	1.00	58.54	A16S
ATOM	1722	C4*	U	A	90	99.067	18.154	19.164	1.00	58.54	A16S
ATOM	1723	O4*	U	A	90	98.815	17.491	20.424	1.00	58.54	A16S
ATOM	1724	C1*	U	A	90	98.272	18.416	21.346	1.00	58.54	A16S
ATOM	1725	N1	U	A	90	99.116	18.441	22.552	1.00	72.99	A16S
ATOM	1726	C6	U	A	90	100.456	18.139	22.502	1.00	72.99	A16S
ATOM	1727	C2	U	A	90	98.513	18.786	23.746	1.00	72.99	A16S
ATOM	1728	O2	U	A	90	97.327	19.056	23.837	1.00	72.99	A16S
ATOM	1729	N3	U	A	90	99.349	18.805	24.831	1.00	72.99	A16S
ATOM	1730	C4	U	A	90	100.693	18.522	24.848	1.00	72.99	A16S
ATOM	1731	O4	U	A	90	101.322	18.631	25.904	1.00	72.99	A16S
ATOM	1732	C5	U	A	90	101.241	18.165	23.579	1.00	72.99	A16S
ATOM	1733	C2*	U	A	90	98.160	19.769	20.641	1.00	58.54	A16S
ATOM	1734	O2*	U	A	90	96.854	19.905	20.122	1.00	58.54	A16S
ATOM	1735	C3*	U	A	90	99.179	19.624	19.521	1.00	58.54	A16S
ATOM	1736	O3*	U	A	90	98.809	20.414	18.411	1.00	58.54	A16S
ATOM	1737	P	C	A	91	99.101	21.988	18.423	1.00	55.76	A16S
ATOM	1738	O1P	C	A	91	98.889	22.405	17.018	1.00	55.55	A16S
ATOM	1739	O2P	C	A	91	100.405	22.265	19.084	1.00	55.55	A16S
ATOM	1740	O5*	C	A	91	97.923	22.593	19.310	1.00	55.76	A16S
ATOM	1741	C5*	C	A	91	96.575	22.657	18.793	1.00	55.76	A16S
ATOM	1742	C4*	C	A	91	95.668	23.402	19.749	1.00	55.76	A16S
ATOM	1743	O4*	C	A	91	95.489	22.629	20.961	1.00	55.76	A16S
ATOM	1744	C1*	C	A	91	95.458	23.491	22.079	1.00	55.76	A16S
ATOM	1745	N1	C	A	91	96.642	23.214	22.899	1.00	55.55	A16S
ATOM	1746	C6	C	A	91	97.708	22.538	22.379	1.00	55.55	A16S
ATOM	1747	C2	C	A	91	96.671	23.671	24.222	1.00	55.55	A16S
ATOM	1748	O2	C	A	91	95.677	24.254	24.676	1.00	55.55	A16S
ATOM	1749	N3	C	A	91	97.777	23.466	24.967	1.00	55.55	A16S
ATOM	1750	C4	C	A	91	98.827	22.831	24.435	1.00	55.55	A16S
ATOM	1751	N4	C	A	91	99.925	22.688	25.184	1.00	55.55	A16S
ATOM	1752	C5	C	A	91	98.807	22.324	23.103	1.00	55.55	A16S
ATOM	1753	C2*	C	A	91	95.498	24.923	21.557	1.00	55.76	A16S
ATOM	1754	O2*	C	A	91	94.185	25.425	21.401	1.00	55.76	A16S
ATOM	1755	C3*	C	A	91	96.201	24.736	20.227	1.00	55.76	A16S
ATOM	1756	O3*	C	A	91	95.913	25.794	19.337	1.00	55.76	A16S
ATOM	1757	P	C	A	92	96.815	27.116	19.399	1.00	63.17	A16S
ATOM	1758	O1P	C	A	92	96.509	27.962	18.207	1.00	55.21	A16S
ATOM	1759	O2P	C	A	92	98.195	26.659	19.652	1.00	55.21	A16S
ATOM	1760	O5*	C	A	92	96.344	27.850	20.731	1.00	63.17	A16S
ATOM	1761	C5*	C	A	92	94.988	28.307	20.880	1.00	63.17	A16S
ATOM	1762	C4*	C	A	92	94.812	29.001	22.205	1.00	63.17	A16S
ATOM	1763	O4*	C	A	92	94.907	28.042	23.287	1.00	63.17	A16S
ATOM	1764	C1*	C	A	92	95.522	28.656	24.404	1.00	63.17	A16S



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ATOM	1765	N1	C	A	92	96.794	27.968	24.679	1.00	55.21	A16S
ATOM	1766	C6	C	A	92	97.358	27.140	23.752	1.00	55.21	A16S
ATOM	1767	C2	C	A	92	97.424	28.175	25.920	1.00	55.21	A16S
ATOM	1768	O2	C	A	92	96.922	28.950	26.724	1.00	55.21	A16S
ATOM	1769	N3	C	A	92	98.570	27.531	26.200	1.00	55.21	A16S
ATOM	1770	C4	C	A	92	99.104	26.712	25.297	1.00	55.21	A16S
ATOM	1771	N4	C	A	92	100.229	26.080	25.625	1.00	55.21	A16S
ATOM	1772	C5	C	A	92	98.503	26.500	24.014	1.00	55.21	A16S
ATOM	1773	C2*	C	A	92	95.764	30.119	24.047	1.00	63.17	A16S
ATOM	1774	O2*	C	A	92	94.647	30.901	24.419	1.00	63.17	A16S
ATOM	1775	C3*	C	A	92	95.863	30.040	22.541	1.00	63.17	A16S
ATOM	1776	O3*	C	A	92	95.605	31.293	21.964	1.00	63.17	A16S
ATOM	1777	P	G	A	93	96.785	32.382	21.904	1.00	60.11	A16S
ATOM	1778	O1P	G	A	93	96.194	33.565	21.239	1.00	67.01	A16S
ATOM	1779	O2P	G	A	93	98.016	31.767	21.357	1.00	67.01	A16S
ATOM	1780	O5*	G	A	93	97.085	32.736	23.423	1.00	60.11	A16S
ATOM	1781	C5*	G	A	93	96.101	33.399	24.214	1.00	60.11	A16S
ATOM	1782	C4*	G	A	93	96.636	33.651	25.590	1.00	60.11	A16S
ATOM	1783	O4*	G	A	93	96.922	32.391	26.243	1.00	60.11	A16S
ATOM	1784	C1*	G	A	93	98.021	32.553	27.124	1.00	60.11	A16S
ATOM	1785	N9	G	A	93	99.062	31.592	26.778	1.00	67.01	A16S
ATOM	1786	C4	G	A	93	100.158	31.287	27.544	1.00	67.01	A16S
ATOM	1787	N3	G	A	93	100.446	31.808	28.750	1.00	67.01	A16S
ATOM	1788	C2	G	A	93	101.567	31.322	29.241	1.00	67.01	A16S
ATOM	1789	N2	G	A	93	101.993	31.726	30.439	1.00	67.01	A16S
ATOM	1790	N1	G	A	93	102.352	30.406	28.595	1.00	67.01	A16S
ATOM	1791	C6	G	A	93	102.082	29.865	27.344	1.00	67.01	A16S
ATOM	1792	O6	G	A	93	102.872	29.063	26.833	1.00	67.01	A16S
ATOM	1793	C5	G	A	93	100.870	30.364	26.815	1.00	67.01	A16S
ATOM	1794	N7	G	A	93	100.226	30.079	25.619	1.00	67.01	A16S
ATOM	1795	C8	G	A	93	99.159	30.831	25.639	1.00	67.01	A16S
ATOM	1796	C2*	G	A	93	98.518	33.990	26.992	1.00	60.11	A16S
ATOM	1797	O2*	G	A	93	97.999	34.740	28.067	1.00	60.11	A16S
ATOM	1798	C3*	G	A	93	97.954	34.384	25.634	1.00	60.11	A16S
ATOM	1799	O3*	G	A	93	97.781	35.768	25.487	1.00	60.11	A16S
ATOM	1800	P	U	A	95	98.946	36.625	24.804	1.00	73.85	A16S
ATOM	1801	O1P	U	A	95	98.429	38.010	24.730	1.00	71.27	A16S
ATOM	1802	O2P	U	A	95	99.379	35.943	23.554	1.00	71.27	A16S
ATOM	1803	O5*	U	A	95	100.116	36.566	25.886	1.00	73.85	A16S
ATOM	1804	C5*	U	A	95	99.908	37.121	27.198	1.00	73.85	A16S
ATOM	1805	C4*	U	A	95	101.042	36.760	28.122	1.00	73.85	A16S
ATOM	1806	O4*	U	A	95	101.079	35.324	28.299	1.00	73.85	A16S
ATOM	1807	C1*	U	A	95	102.424	34.895	28.432	1.00	73.85	A16S
ATOM	1808	N1	U	A	95	102.731	33.980	27.326	1.00	71.27	A16S
ATOM	1809	C6	U	A	95	101.938	33.912	26.200	1.00	71.27	A16S
ATOM	1810	C2	U	A	95	103.860	33.189	27.452	1.00	71.27	A16S
ATOM	1811	O2	U	A	95	104.583	33.224	28.435	1.00	71.27	A16S
ATOM	1812	N3	U	A	95	104.110	32.360	26.384	1.00	71.27	A16S
ATOM	1813	C4	U	A	95	103.358	32.243	25.225	1.00	71.27	A16S
ATOM	1814	O4	U	A	95	103.703	31.436	24.354	1.00	71.27	A16S
ATOM	1815	C5	U	A	95	102.206	33.096	25.174	1.00	71.27	A16S
ATOM	1816	C2*	U	A	95	103.319	36.132	28.389	1.00	73.85	A16S
ATOM	1817	O2*	U	A	95	103.627	36.570	29.696	1.00	73.85	A16S
ATOM	1818	C3*	U	A	95	102.436	37.110	27.631	1.00	73.85	A16S
ATOM	1819	O3*	U	A	95	102.795	38.464	27.866	1.00	73.85	A16S
ATOM	1820	P	G	A	96	103.936	39.143	26.960	1.00	83.20	A16S
ATOM	1821	O1P	G	A	96	103.826	40.609	27.193	1.00	71.44	A16S
ATOM	1822	O2P	G	A	96	103.861	38.613	25.573	1.00	71.44	A16S
ATOM	1823	O5*	G	A	96	105.279	38.604	27.616	1.00	83.20	A16S
ATOM	1824	C5*	G	A	96	105.588	38.970	28.955	1.00	83.20	A16S
ATOM	1825	C4*	G	A	96	106.888	38.365	29.385	1.00	83.20	A16S
ATOM	1826	O4*	G	A	96	106.749	36.928	29.480	1.00	83.20	A16S
ATOM	1827	C1*	G	A	96	108.007	36.326	29.251	1.00	83.20	A16S
ATOM	1828	N9	G	A	96	107.902	35.399	28.132	1.00	71.44	A16S
ATOM	1829	C4	G	A	96	108.835	34.447	27.815	1.00	71.44	A16S
ATOM	1830	N3	G	A	96	109.984	34.214	28.491	1.00	71.44	A16S
ATOM	1831	C2	G	A	96	110.692	33.245	27.943	1.00	71.44	A16S
ATOM	1832	N2	G	A	96	111.865	32.894	28.492	1.00	71.44	A16S
ATOM	1833	N1	G	A	96	110.301	32.554	26.817	1.00	71.44	A16S
ATOM	1834	C6	G	A	96	109.121	32.778	26.105	1.00	71.44	A16S
ATOM	1835	O6	G	A	96	108.864	32.102	25.100	1.00	71.44	A16S
ATOM	1836	C5	G	A	96	108.352	33.820	26.685	1.00	71.44	A16S
ATOM	1837	N7	G	A	96	107.129	34.365	26.301	1.00	71.44	A16S
ATOM	1838	C8	G	A	96	106.899	35.297	27.190	1.00	71.44	A16S
ATOM	1839	C2*	G	A	96	109.006	37.436	28.940	1.00	83.20	A16S
ATOM	1840	O2*	G	A	96	109.713	37.767	30.117	1.00	83.20	A16S
ATOM	1841	C3*	G	A	96	108.083	38.553	28.474	1.00	83.20	A16S



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ATOM	1842	O3*	G	A	96	108.689	39.830	28.588	1.00	83.20	A16S
ATOM	1843	P	G	A	97	109.588	40.379	27.370	1.00	85.37	A16S
ATOM	1844	O1P	G	A	97	110.086	41.722	27.766	1.00	77.40	A16S
ATOM	1845	O2P	G	A	97	108.824	40.223	26.103	1.00	77.40	A16S
ATOM	1846	O5*	G	A	97	110.815	39.362	27.327	1.00	85.37	A16S
ATOM	1847	C5*	G	A	97	111.667	39.199	28.475	1.00	85.37	A16S
ATOM	1848	C4*	G	A	97	112.756	38.191	28.197	1.00	85.37	A16S
ATOM	1849	O4*	G	A	97	112.214	36.847	28.131	1.00	85.37	A16S
ATOM	1850	C1*	G	A	97	112.974	36.074	27.214	1.00	85.37	A16S
ATOM	1851	N9	G	A	97	112.104	35.653	26.118	1.00	77.40	A16S
ATOM	1852	C4	G	A	97	112.371	34.656	25.209	1.00	77.40	A16S
ATOM	1853	N3	G	A	97	113.482	33.896	25.178	1.00	77.40	A16S
ATOM	1854	C2	G	A	97	113.457	33.031	24.184	1.00	77.40	A16S
ATOM	1855	N2	G	A	97	114.495	32.208	24.011	1.00	77.40	A16S
ATOM	1856	N1	G	A	97	112.417	32.915	23.289	1.00	77.40	A16S
ATOM	1857	C6	G	A	97	111.262	33.690	23.301	1.00	77.40	A16S
ATOM	1858	O6	G	A	97	110.384	33.513	22.442	1.00	77.40	A16S
ATOM	1859	C5	G	A	97	111.281	34.627	24.363	1.00	77.40	A16S
ATOM	1860	N7	G	A	97	110.348	35.587	24.730	1.00	77.40	A16S
ATOM	1861	C8	G	A	97	110.877	36.170	25.774	1.00	77.40	A16S
ATOM	1862	C2*	G	A	97	114.100	36.962	26.695	1.00	85.37	A16S
ATOM	1863	O2*	G	A	97	115.252	36.766	27.488	1.00	85.37	A16S
ATOM	1864	C3*	G	A	97	113.500	38.344	26.886	1.00	85.37	A16S
ATOM	1865	O3*	G	A	97	114.474	39.360	26.919	1.00	85.37	A16S
ATOM	1866	P	U	A	98	114.779	40.188	25.580	1.00	77.30	A16S
ATOM	1867	O1P	U	A	98	115.741	41.245	25.989	1.00	58.53	A16S
ATOM	1868	O2P	U	A	98	113.511	40.571	24.877	1.00	58.53	A16S
ATOM	1869	O5*	U	A	98	115.541	39.125	24.683	1.00	77.30	A16S
ATOM	1870	C5*	U	A	98	116.824	38.650	25.084	1.00	77.30	A16S
ATOM	1871	C4*	U	A	98	117.271	37.547	24.175	1.00	77.30	A16S
ATOM	1872	O4*	U	A	98	116.344	36.438	24.287	1.00	77.30	A16S
ATOM	1873	C1*	U	A	98	116.222	35.790	23.036	1.00	77.30	A16S
ATOM	1874	N1	U	A	98	114.841	35.940	22.556	1.00	58.53	A16S
ATOM	1875	C6	U	A	98	114.019	36.935	23.025	1.00	58.53	A16S
ATOM	1876	C2	U	A	98	114.399	35.047	21.583	1.00	58.53	A16S
ATOM	1877	O2	U	A	98	115.095	34.142	21.140	1.00	58.53	A16S
ATOM	1878	N3	U	A	98	113.115	35.255	21.140	1.00	58.53	A16S
ATOM	1879	C4	U	A	98	112.242	36.237	21.558	1.00	58.53	A16S
ATOM	1880	O4	U	A	98	111.094	36.273	21.085	1.00	58.53	A16S
ATOM	1881	C5	U	A	98	112.773	37.114	22.572	1.00	58.53	A16S
ATOM	1882	C2*	U	A	98	117.180	36.487	22.077	1.00	77.30	A16S
ATOM	1883	O2*	U	A	98	118.437	35.843	22.115	1.00	77.30	A16S
ATOM	1884	C3*	U	A	98	117.259	37.868	22.694	1.00	77.30	A16S
ATOM	1885	O3*	U	A	98	118.392	38.582	22.243	1.00	77.30	A16S
ATOM	1886	P	C	A	99	118.301	39.382	20.854	1.00	72.81	A16S
ATOM	1887	O1P	C	A	99	119.600	40.082	20.663	1.00	83.28	A16S
ATOM	1888	O2P	C	A	99	117.033	40.165	20.848	1.00	83.28	A16S
ATOM	1889	O5*	C	A	99	118.187	38.219	19.770	1.00	72.81	A16S
ATOM	1890	C5*	C	A	99	119.260	37.268	19.613	1.00	72.81	A16S
ATOM	1891	C4*	C	A	99	119.038	36.401	18.398	1.00	72.81	A16S
ATOM	1892	O4*	C	A	99	117.965	35.459	18.633	1.00	72.81	A16S
ATOM	1893	C1*	C	A	99	117.268	35.230	17.422	1.00	72.81	A16S
ATOM	1894	N1	C	A	99	115.858	35.609	17.612	1.00	83.28	A16S
ATOM	1895	C6	C	A	99	115.514	36.597	18.498	1.00	83.28	A16S
ATOM	1896	C2	C	A	99	114.860	34.952	16.852	1.00	83.28	A16S
ATOM	1897	O2	C	A	99	115.191	34.041	16.066	1.00	83.28	A16S
ATOM	1898	N3	C	A	99	113.568	35.330	16.998	1.00	83.28	A16S
ATOM	1899	C4	C	A	99	113.250	36.308	17.858	1.00	83.28	A16S
ATOM	1900	N4	C	A	99	111.962	36.660	17.963	1.00	83.28	A16S
ATOM	1901	C5	C	A	99	114.238	36.974	18.650	1.00	83.28	A16S
ATOM	1902	C2*	C	A	99	117.934	36.064	16.323	1.00	72.81	A16S
ATOM	1903	O2*	C	A	99	118.796	35.250	15.554	1.00	72.81	A16S
ATOM	1904	C3*	C	A	99	118.649	37.138	17.131	1.00	72.81	A16S
ATOM	1905	O3*	C	A	99	119.797	37.645	16.470	1.00	72.81	A16S
ATOM	1906	P	A	A	101	119.790	39.146	15.901	1.00	77.31	A16S
ATOM	1907	O1P	A	A	101	121.206	39.506	15.651	1.00	64.25	A16S
ATOM	1908	O2P	A	A	101	118.976	39.992	16.811	1.00	64.25	A16S
ATOM	1909	O5*	A	A	101	119.036	39.021	14.496	1.00	77.31	A16S
ATOM	1910	C5*	A	A	101	119.784	38.833	13.265	1.00	77.31	A16S
ATOM	1911	C4*	A	A	101	119.187	37.713	12.448	1.00	77.31	A16S
ATOM	1912	O4*	A	A	101	118.468	36.851	13.363	1.00	77.31	A16S
ATOM	1913	C1*	A	A	101	117.341	36.305	12.714	1.00	77.31	A16S
ATOM	1914	N9	A	A	101	116.140	36.694	13.445	1.00	64.25	A16S
ATOM	1915	C4	A	A	101	114.880	36.246	13.141	1.00	64.25	A16S
ATOM	1916	N3	A	A	101	114.544	35.373	12.177	1.00	64.25	A16S
ATOM	1917	C2	A	A	101	113.230	35.186	12.155	1.00	64.25	A16S
ATOM	1918	N1	A	A	101	112.283	35.745	12.914	1.00	64.25	A16S



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ATOM	1919	C6	A	A 101	112.656	36.634	13.860	1.00	64.25	A16S
ATOM	1920	N6	A	A 101	111.705	37.229	14.584	1.00	64.25	A16S
ATOM	1921	C5	A	A 101	114.029	36.892	14.010	1.00	64.25	A16S
ATOM	1922	N7	A	A 101	114.742	37.709	14.878	1.00	64.25	A16S
ATOM	1923	C8	A	A 101	115.989	37.554	14.502	1.00	64.25	A16S
ATOM	1924	C2*	A	A 101	117.320	36.818	11.274	1.00	77.31	A16S
ATOM	1925	O2*	A	A 101	117.878	35.824	10.443	1.00	77.31	A16S
ATOM	1926	C3*	A	A 101	118.164	38.085	11.376	1.00	77.31	A16S
ATOM	1927	O3*	A	A 101	118.797	38.396	10.127	1.00	77.31	A16S
ATOM	1928	P	G	A 102	117.970	39.145	8.951	1.00	57.57	A16S
ATOM	1929	O1P	G	A 102	118.948	39.345	7.850	1.00	52.88	A16S
ATOM	1930	O2P	G	A 102	117.207	40.308	9.470	1.00	52.88	A16S
ATOM	1931	O5*	G	A 102	116.874	38.090	8.489	1.00	57.57	A16S
ATOM	1932	C5*	G	A 102	117.254	36.821	7.947	1.00	57.57	A16S
ATOM	1933	C4*	G	A 102	116.030	36.065	7.509	1.00	57.57	A16S
ATOM	1934	O4*	G	A 102	115.247	35.645	8.653	1.00	57.57	A16S
ATOM	1935	C1*	G	A 102	113.862	35.764	8.354	1.00	57.57	A16S
ATOM	1936	N9	G	A 102	113.287	36.722	9.291	1.00	52.88	A16S
ATOM	1937	C4	G	A 102	111.954	36.951	9.537	1.00	52.88	A16S
ATOM	1938	N3	G	A 102	110.921	36.320	8.953	1.00	52.88	A16S
ATOM	1939	C2	G	A 102	109.756	36.774	9.386	1.00	52.88	A16S
ATOM	1940	N2	G	A 102	108.622	36.262	8.901	1.00	52.88	A16S
ATOM	1941	N1	G	A 102	109.617	37.763	10.328	1.00	52.88	A16S
ATOM	1942	C6	G	A 102	110.675	38.419	10.953	1.00	52.88	A16S
ATOM	1943	O6	G	A 102	110.453	39.288	11.813	1.00	52.88	A16S
ATOM	1944	C5	G	A 102	111.925	37.951	10.483	1.00	52.88	A16S
ATOM	1945	N7	G	A 102	113.209	38.343	10.824	1.00	52.88	A16S
ATOM	1946	C8	G	A 102	113.983	37.588	10.098	1.00	52.88	A16S
ATOM	1947	C2*	G	A 102	113.738	36.245	6.906	1.00	57.57	A16S
ATOM	1948	O2*	G	A 102	113.520	35.158	6.038	1.00	57.57	A16S
ATOM	1949	C3*	G	A 102	115.085	36.911	6.693	1.00	57.57	A16S
ATOM	1950	O3*	G	A 102	115.499	36.941	5.355	1.00	57.57	A16S
ATOM	1951	P	C	A 103	115.430	38.317	4.558	1.00	69.10	A16S
ATOM	1952	O1P	C	A 103	116.257	38.183	3.330	1.00	60.64	A16S
ATOM	1953	O2P	C	A 103	115.737	39.389	5.557	1.00	60.64	A16S
ATOM	1954	O5*	C	A 103	113.909	38.364	4.107	1.00	69.10	A16S
ATOM	1955	C5*	C	A 103	113.372	37.260	3.388	1.00	69.10	A16S
ATOM	1956	C4*	C	A 103	111.875	37.226	3.508	1.00	69.10	A16S
ATOM	1957	O4*	C	A 103	111.465	37.007	4.878	1.00	69.10	A16S
ATOM	1958	C1*	C	A 103	110.197	37.607	5.083	1.00	69.10	A16S
ATOM	1959	N1	C	A 103	110.285	38.564	6.196	1.00	60.64	A16S
ATOM	1960	C6	C	A 103	111.475	38.826	6.815	1.00	60.64	A16S
ATOM	1961	C2	C	A 103	109.114	39.216	6.613	1.00	60.64	A16S
ATOM	1962	O2	C	A 103	108.049	38.972	6.030	1.00	60.64	A16S
ATOM	1963	N3	C	A 103	109.171	40.095	7.633	1.00	60.64	A16S
ATOM	1964	C4	C	A 103	110.333	40.346	8.230	1.00	60.64	A16S
ATOM	1965	N4	C	A 103	110.336	41.225	9.231	1.00	60.64	A16S
ATOM	1966	C5	C	A 103	111.546	39.705	7.826	1.00	60.64	A16S
ATOM	1967	C2*	C	A 103	109.793	38.299	3.780	1.00	69.10	A16S
ATOM	1968	O2*	C	A 103	108.963	37.450	3.006	1.00	69.10	A16S
ATOM	1969	C3*	C	A 103	111.138	38.487	3.112	1.00	69.10	A16S
ATOM	1970	O3*	C	A 103	110.989	38.590	1.717	1.00	69.10	A16S
ATOM	1971	P	G	A 104	111.230	40.007	1.025	1.00	72.82	A16S
ATOM	1972	O1P	G	A 104	110.863	39.862	-0.410	1.00	42.27	A16S
ATOM	1973	O2P	G	A 104	112.619	40.416	1.403	1.00	42.27	A16S
ATOM	1974	O5*	G	A 104	110.174	40.965	1.751	1.00	72.82	A16S
ATOM	1975	C5*	G	A 104	108.767	40.875	1.442	1.00	72.82	A16S
ATOM	1976	C4*	G	A 104	107.970	41.899	2.222	1.00	72.82	A16S
ATOM	1977	O4*	G	A 104	108.072	41.638	3.642	1.00	72.82	A16S
ATOM	1978	C1*	G	A 104	107.950	42.855	4.363	1.00	72.82	A16S
ATOM	1979	N9	G	A 104	109.135	43.007	5.200	1.00	42.27	A16S
ATOM	1980	C4	G	A 104	109.346	43.919	6.215	1.00	42.27	A16S
ATOM	1981	N3	G	A 104	108.486	44.871	6.637	1.00	42.27	A16S
ATOM	1982	C2	G	A 104	109.002	45.589	7.649	1.00	42.27	A16S
ATOM	1983	N2	G	A 104	108.305	46.584	8.208	1.00	42.27	A16S
ATOM	1984	N1	G	A 104	110.247	45.391	8.186	1.00	42.27	A16S
ATOM	1985	C6	G	A 104	111.151	44.427	7.755	1.00	42.27	A16S
ATOM	1986	O6	G	A 104	112.276	44.347	8.281	1.00	42.27	A16S
ATOM	1987	C5	G	A 104	110.614	43.639	6.694	1.00	42.27	A16S
ATOM	1988	N7	G	A 104	111.177	42.575	6.007	1.00	42.27	A16S
ATOM	1989	C8	G	A 104	110.271	42.239	5.131	1.00	42.27	A16S
ATOM	1990	C2*	G	A 104	107.767	43.973	3.344	1.00	72.82	A16S
ATOM	1991	O2*	G	A 104	106.383	44.218	3.191	1.00	72.82	A16S
ATOM	1992	C3*	G	A 104	108.365	43.355	2.089	1.00	72.82	A16S
ATOM	1993	O3*	G	A 104	107.828	43.954	0.923	1.00	72.82	A16S
ATOM	1994	P	G	A 105	108.621	45.171	0.232	1.00	72.29	A16S
ATOM	1995	O1P	G	A 105	107.888	45.498	-1.015	1.00	50.12	A16S



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ATOM	1996	O2P	G	A	105	110.053	44.796	0.160	1.00	50.12	A16S
ATOM	1997	O5*	G	A	105	108.507	46.378	1.275	1.00	72.29	A16S
ATOM	1998	C5*	G	A	105	107.226	46.951	1.589	1.00	72.29	A16S
ATOM	1999	C4*	G	A	105	107.330	48.006	2.682	1.00	72.29	A16S
ATOM	2000	O4*	G	A	105	107.722	47.428	3.953	1.00	72.29	A16S
ATOM	2001	C1*	G	A	105	108.194	48.456	4.802	1.00	72.29	A16S
ATOM	2002	N9	G	A	105	109.449	48.050	5.427	1.00	50.12	A16S
ATOM	2003	C4	G	A	105	110.033	48.653	6.519	1.00	50.12	A16S
ATOM	2004	N3	G	A	105	109.540	49.715	7.195	1.00	50.12	A16S
ATOM	2005	C2	G	A	105	110.343	50.094	8.176	1.00	50.12	A16S
ATOM	2006	N2	G	A	105	110.018	51.163	8.922	1.00	50.12	A16S
ATOM	2007	N1	G	A	105	111.526	49.459	8.489	1.00	50.12	A16S
ATOM	2008	C6	G	A	105	112.045	48.354	7.820	1.00	50.12	A16S
ATOM	2009	O6	G	A	105	113.112	47.848	8.193	1.00	50.12	A16S
ATOM	2010	C5	G	A	105	111.202	47.954	6.744	1.00	50.12	A16S
ATOM	2011	N7	G	A	105	111.347	46.927	5.819	1.00	50.12	A16S
ATOM	2012	C8	G	A	105	110.284	47.022	5.060	1.00	50.12	A16S
ATOM	2013	C2*	G	A	105	108.330	49.726	3.965	1.00	72.29	A16S
ATOM	2014	O2*	G	A	105	107.228	50.556	4.288	1.00	72.29	A16S
ATOM	2015	C3*	G	A	105	108.287	49.178	2.534	1.00	72.29	A16S
ATOM	2016	O3*	G	A	105	107.791	50.164	1.628	1.00	72.29	A16S
ATOM	2017	P	C	A	106	108.823	51.035	0.745	1.00	57.95	A16S
ATOM	2018	O1P	C	A	106	107.967	51.758	-0.249	1.00	53.48	A16S
ATOM	2019	O2P	C	A	106	109.938	50.164	0.261	1.00	53.48	A16S
ATOM	2020	O5*	C	A	106	109.440	52.079	1.784	1.00	57.95	A16S
ATOM	2021	C5*	C	A	106	108.625	53.113	2.329	1.00	57.95	A16S
ATOM	2022	C4*	C	A	106	109.304	53.760	3.504	1.00	57.95	A16S
ATOM	2023	O4*	C	A	106	109.427	52.828	4.603	1.00	57.95	A16S
ATOM	2024	C1*	C	A	106	110.587	53.137	5.364	1.00	57.95	A16S
ATOM	2025	N1	C	A	106	111.518	52.003	5.286	1.00	53.48	A16S
ATOM	2026	C6	C	A	106	111.378	51.044	4.322	1.00	53.48	A16S
ATOM	2027	C2	C	A	106	112.582	51.949	6.188	1.00	53.48	A16S
ATOM	2028	O2	C	A	106	112.657	52.810	7.085	1.00	53.48	A16S
ATOM	2029	N3	C	A	106	113.503	50.970	6.054	1.00	53.48	A16S
ATOM	2030	C4	C	A	106	113.389	50.077	5.067	1.00	53.48	A16S
ATOM	2031	N4	C	A	106	114.364	49.176	4.912	1.00	53.48	A16S
ATOM	2032	C5	C	A	106	112.283	50.078	4.176	1.00	53.48	A16S
ATOM	2033	C2*	C	A	106	111.247	54.345	4.709	1.00	57.95	A16S
ATOM	2034	O2*	C	A	106	110.842	55.536	5.349	1.00	57.95	A16S
ATOM	2035	C3*	C	A	106	110.722	54.228	3.292	1.00	57.95	A16S
ATOM	2036	O3*	C	A	106	110.780	55.447	2.623	1.00	57.95	A16S
ATOM	2037	P <sub>1</sub>	G	A	107	112.003	55.724	1.643	1.00	46.16	A16S
ATOM	2038	O1P	G	A	107	111.627	56.967	0.914	1.00	46.96	A16S
ATOM	2039	O2P	G	A	107	112.263	54.452	0.888	1.00	46.96	A16S
ATOM	2040	O5*	G	A	107	113.201	56.017	2.646	1.00	46.16	A16S
ATOM	2041	C5*	G	A	107	113.107	57.095	3.574	1.00	46.16	A16S
ATOM	2042	C4*	G	A	107	114.239	57.041	4.570	1.00	46.16	A16S
ATOM	2043	O4*	G	A	107	114.024	55.975	5.528	1.00	46.16	A16S
ATOM	2044	C1*	G	A	107	115.278	55.454	5.941	1.00	46.16	A16S
ATOM	2045	N9	G	A	107	115.430	54.114	5.389	1.00	46.96	A16S
ATOM	2046	C4	G	A	107	116.413	53.225	5.725	1.00	46.96	A16S
ATOM	2047	N3	G	A	107	117.354	53.418	6.668	1.00	46.96	A16S
ATOM	2048	C2	G	A	107	118.217	52.425	6.718	1.00	46.96	A16S
ATOM	2049	N2	G	A	107	119.227	52.479	7.601	1.00	46.96	A16S
ATOM	2050	N1	G	A	107	118.155	51.311	5.906	1.00	46.96	A16S
ATOM	2051	C6	G	A	107	117.175	51.082	4.937	1.00	46.96	A16S
ATOM	2052	O6	G	A	107	117.194	50.039	4.266	1.00	46.96	A16S
ATOM	2053	C5	G	A	107	116.251	52.155	4.872	1.00	46.96	A16S
ATOM	2054	N7	G	A	107	115.153	52.347	4.045	1.00	46.96	A16S
ATOM	2055	C8	G	A	107	114.689	53.517	4.396	1.00	46.96	A16S
ATOM	2056	C2*	G	A	107	116.357	56.300	5.280	1.00	46.16	A16S
ATOM	2057	O2*	G	A	107	116.727	57.379	6.109	1.00	46.16	A16S
ATOM	2058	C3*	G	A	107	115.634	56.764	4.032	1.00	46.16	A16S
ATOM	2059	O3*	G	A	107	116.271	57.871	3.428	1.00	46.16	A16S
ATOM	2060	P	G	A	108	117.105	57.645	2.073	1.00	50.80	A16S
ATOM	2061	O1P	G	A	108	117.536	58.989	1.646	1.00	61.79	A16S
ATOM	2062	O2P	G	A	108	116.301	56.801	1.140	1.00	61.79	A16S
ATOM	2063	O5*	G	A	108	118.384	56.813	2.544	1.00	50.80	A16S
ATOM	2064	C5*	G	A	108	118.947	57.021	3.845	1.00	50.80	A16S
ATOM	2065	C4*	G	A	108	119.971	55.959	4.181	1.00	50.80	A16S
ATOM	2066	O4*	G	A	108	119.400	54.616	4.101	1.00	50.80	A16S
ATOM	2067	C1*	G	A	108	120.463	53.669	4.102	1.00	50.80	A16S
ATOM	2068	N9	G	A	108	120.363	52.654	3.038	1.00	61.79	A16S
ATOM	2069	C4	G	A	108	119.494	52.539	1.972	1.00	61.79	A16S
ATOM	2070	N3	G	A	108	118.451	53.346	1.698	1.00	61.79	A16S
ATOM	2071	C2	G	A	108	117.824	52.981	0.586	1.00	61.79	A16S
ATOM	2072	N2	G	A	108	116.746	53.683	0.163	1.00	61.79	A16S



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ATOM	2073	N1	G	A 108	118.209	51.908	-0.196	1.00	61.79	A16S
ATOM	2074	C6	G	A 108	119.299	51.077	0.067	1.00	61.79	A16S
ATOM	2075	O6	G	A 108	119.599	50.160	-0.717	1.00	61.79	A16S
ATOM	2076	C5	G	A 108	119.949	51.443	1.250	1.00	61.79	A16S
ATOM	2077	N7	G	A 108	121.046	50.865	1.858	1.00	61.79	A16S
ATOM	2078	C8	G	A 108	121.250	51.600	2.913	1.00	61.79	A16S
ATOM	2079	C2*	G	A 108	121.730	54.468	3.839	1.00	50.80	A16S
ATOM	2080	O2*	G	A 108	122.420	54.673	5.055	1.00	50.80	A16S
ATOM	2081	C3*	G	A 108	121.171	55.764	3.274	1.00	50.80	A16S
ATOM	2082	O3*	G	A 108	122.208	56.731	3.270	1.00	50.80	A16S
ATOM	2083	P	A	A 109	123.309	56.673	2.090	1.00	51.99	A16S
ATOM	2084	O1P	A	A 109	123.537	55.252	1.702	1.00	49.91	A16S
ATOM	2085	O2P	A	A 109	124.473	57.509	2.482	1.00	49.91	A16S
ATOM	2086	O5*	A	A 109	122.545	57.289	0.833	1.00	51.99	A16S
ATOM	2087	C5*	A	A 109	121.788	58.518	0.929	1.00	51.99	A16S
ATOM	2088	C4*	A	A 109	122.083	59.415	-0.270	1.00	51.99	A16S
ATOM	2089	O4*	A	A 109	121.805	58.703	-1.500	1.00	51.99	A16S
ATOM	2090	C1*	A	A 109	120.858	59.416	-2.263	1.00	51.99	A16S
ATOM	2091	N9	A	A 109	120.014	58.420	-2.907	1.00	49.91	A16S
ATOM	2092	C4	A	A 109	119.488	57.312	-2.288	1.00	49.91	A16S
ATOM	2093	N3	A	A 109	119.622	56.958	-0.994	1.00	49.91	A16S
ATOM	2094	C2	A	A 109	118.985	55.823	-0.760	1.00	49.91	A16S
ATOM	2095	N1	A	A 109	118.285	55.057	-1.607	1.00	49.91	A16S
ATOM	2096	C6	A	A 109	118.182	55.437	-2.896	1.00	49.91	A16S
ATOM	2097	N6	A	A 109	117.504	54.671	-3.735	1.00	49.91	A16S
ATOM	2098	C5	A	A 109	118.804	56.622	-3.274	1.00	49.91	A16S
ATOM	2099	N7	A	A 109	118.889	57.287	-4.493	1.00	49.91	A16S
ATOM	2100	C8	A	A 109	119.609	58.351	-4.220	1.00	49.91	A16S
ATOM	2101	C2*	A	A 109	120.154	60.369	-1.291	1.00	51.99	A16S
ATOM	2102	O2*	A	A 109	119.671	61.537	-1.932	1.00	51.99	A16S
ATOM	2103	C3*	A	A 109	121.294	60.718	-0.350	1.00	51.99	A16S
ATOM	2104	O3*	A	A 109	122.092	61.666	-1.045	1.00	51.99	A16S
ATOM	2105	P	C	A 110	123.140	62.564	-0.248	1.00	53.69	A16S
ATOM	2106	O1P	C	A 110	123.479	63.699	-1.146	1.00	61.70	A16S
ATOM	2107	O2P	C	A 110	124.230	61.693	0.275	1.00	61.70	A16S
ATOM	2108	O5*	C	A 110	122.291	63.102	0.991	1.00	53.69	A16S
ATOM	2109	C5*	C	A 110	121.144	63.961	0.800	1.00	53.69	A16S
ATOM	2110	C4*	C	A 110	120.553	64.349	2.138	1.00	53.69	A16S
ATOM	2111	O4*	C	A 110	120.010	63.166	2.774	1.00	53.69	A16S
ATOM	2112	C1*	C	A 110	120.206	63.246	4.172	1.00	53.69	A16S
ATOM	2113	N1	C	A 110	121.071	62.136	4.586	1.00	61.70	A16S
ATOM	2114	C6	C	A 110	121.865	61.483	3.686	1.00	61.70	A16S
ATOM	2115	C2	C	A 110	121.080	61.768	5.929	1.00	61.70	A16S
ATOM	2116	O2	C	A 110	120.335	62.378	6.725	1.00	61.70	A16S
ATOM	2117	N3	C	A 110	121.893	60.765	6.330	1.00	61.70	A16S
ATOM	2118	C4	C	A 110	122.664	60.135	5.442	1.00	61.70	A16S
ATOM	2119	N4	C	A 110	123.444	59.148	5.878	1.00	61.70	A16S
ATOM	2120	C5	C	A 110	122.669	60.488	4.068	1.00	61.70	A16S
ATOM	2121	C2*	C	A 110	120.884	64.578	4.483	1.00	53.69	A16S
ATOM	2122	O2*	C	A 110	119.947	65.539	4.923	1.00	53.69	A16S
ATOM	2123	C3*	C	A 110	121.540	64.902	3.153	1.00	53.69	A16S
ATOM	2124	O3*	C	A 110	121.762	66.285	3.023	1.00	53.69	A16S
ATOM	2125	P	G	A 111	123.220	66.876	3.327	1.00	42.92	A16S
ATOM	2126	O1P	G	A 111	123.094	68.359	3.257	1.00	71.95	A16S
ATOM	2127	O2P	G	A 111	124.241	66.169	2.489	1.00	71.95	A16S
ATOM	2128	O5*	G	A 111	123.500	66.490	4.842	1.00	42.92	A16S
ATOM	2129	C5*	G	A 111	122.716	67.055	5.886	1.00	42.92	A16S
ATOM	2130	C4*	G	A 111	123.010	66.356	7.176	1.00	42.92	A16S
ATOM	2131	O4*	G	A 111	122.539	64.991	7.099	1.00	42.92	A16S
ATOM	2132	C1*	G	A 111	123.452	64.131	7.751	1.00	42.92	A16S
ATOM	2133	N9	G	A 111	124.086	63.304	6.728	1.00	71.95	A16S
ATOM	2134	C4	G	A 111	124.718	62.114	6.930	1.00	71.95	A16S
ATOM	2135	N3	G	A 111	124.804	61.467	8.099	1.00	71.95	A16S
ATOM	2136	C2	G	A 111	125.492	60.366	7.991	1.00	71.95	A16S
ATOM	2137	N2	G	A 111	125.656	59.597	9.057	1.00	71.95	A16S
ATOM	2138	N1	G	A 111	126.067	59.932	6.826	1.00	71.95	A16S
ATOM	2139	C6	G	A 111	125.994	60.586	5.605	1.00	71.95	A16S
ATOM	2140	O6	G	A 111	126.560	60.110	4.603	1.00	71.95	A16S
ATOM	2141	C5	G	A 111	125.245	61.763	5.707	1.00	71.95	A16S
ATOM	2142	N7	G	A 111	124.912	62.697	4.741	1.00	71.95	A16S
ATOM	2143	C8	G	A 111	124.217	63.590	5.389	1.00	71.95	A16S
ATOM	2144	C2*	G	A 111	124.505	65.021	8.414	1.00	42.92	A16S
ATOM	2145	O2*	G	A 111	124.143	65.376	9.738	1.00	42.92	A16S
ATOM	2146	C3*	G	A 111	124.480	66.221	7.492	1.00	42.92	A16S
ATOM	2147	O3*	G	A 111	125.007	67.380	8.073	1.00	42.92	A16S
ATOM	2148	P	G	A 112	126.224	68.117	7.340	1.00	51.74	A16S
ATOM	2149	O1P	G	A 112	126.315	69.469	7.957	1.00	55.50	A16S



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ATOM	2150	O2P	G	A	112	126.005	67.970	5.864	1.00	55.50	A16S
ATOM	2151	O5*	G	A	112	127.511	67.275	7.758	1.00	51.74	A16S
ATOM	2152	C5*	G	A	112	127.905	67.198	9.139	1.00	51.74	A16S
ATOM	2153	C4*	G	A	112	128.947	66.125	9.334	1.00	51.74	A16S
ATOM	2154	O4*	G	A	112	128.398	64.855	8.904	1.00	51.74	A16S
ATOM	2155	C1*	G	A	112	129.419	64.048	8.357	1.00	51.74	A16S
ATOM	2156	N9	G	A	112	129.170	63.913	6.927	1.00	55.50	A16S
ATOM	2157	C4	G	A	112	129.960	63.227	6.035	1.00	55.50	A16S
ATOM	2158	N3	G	A	112	131.074	62.532	6.342	1.00	55.50	A16S
ATOM	2159	C2	G	A	112	131.634	62.005	5.269	1.00	55.50	A16S
ATOM	2160	N2	G	A	112	132.747	61.269	5.396	1.00	55.50	A16S
ATOM	2161	N1	G	A	112	131.147	62.156	3.992	1.00	55.50	A16S
ATOM	2162	C6	G	A	112	130.009	62.866	3.653	1.00	55.50	A16S
ATOM	2163	O6	G	A	112	129.675	62.945	2.476	1.00	55.50	A16S
ATOM	2164	C5	G	A	112	129.383	63.430	4.799	1.00	55.50	A16S
ATOM	2165	N7	G	A	112	128.236	64.205	4.914	1.00	55.50	A16S
ATOM	2166	C8	G	A	112	128.146	64.464	6.193	1.00	55.50	A16S
ATOM	2167	C2*	G	A	112	130.722	64.806	8.549	1.00	51.74	A16S
ATOM	2168	O2*	G	A	112	131.290	64.444	9.790	1.00	51.74	A16S
ATOM	2169	C3*	G	A	112	130.222	66.237	8.526	1.00	51.74	A16S
ATOM	2170	O3*	G	A	112	131.161	67.164	9.032	1.00	51.74	A16S
ATOM	2171	P	G	A	113	132.063	68.001	7.990	1.00	54.03	A16S
ATOM	2172	O1P	G	A	113	132.925	68.961	8.760	1.00	44.45	A16S
ATOM	2173	O2P	G	A	113	131.150	68.510	6.943	1.00	44.45	A16S
ATOM	2174	O5*	G	A	113	132.962	66.885	7.290	1.00	54.03	A16S
ATOM	2175	C5*	G	A	113	133.740	65.984	8.089	1.00	54.03	A16S
ATOM	2176	C4*	G	A	113	134.702	65.207	7.233	1.00	54.03	A16S
ATOM	2177	O4*	G	A	113	133.982	64.260	6.422	1.00	54.03	A16S
ATOM	2178	C1*	G	A	113	134.659	64.086	5.194	1.00	54.03	A16S
ATOM	2179	N9	G	A	113	133.756	64.481	4.124	1.00	44.45	A16S
ATOM	2180	C4	G	A	113	133.952	64.311	2.777	1.00	44.45	A16S
ATOM	2181	N3	G	A	113	135.030	63.749	2.193	1.00	44.45	A16S
ATOM	2182	C2	G	A	113	134.911	63.706	0.879	1.00	44.45	A16S
ATOM	2183	N2	G	A	113	135.872	63.169	0.145	1.00	44.45	A16S
ATOM	2184	N1	G	A	113	133.833	64.187	0.191	1.00	44.45	A16S
ATOM	2185	C6	G	A	113	132.717	64.781	0.774	1.00	44.45	A16S
ATOM	2186	O6	G	A	113	131.796	65.200	0.064	1.00	44.45	A16S
ATOM	2187	C5	G	A	113	132.823	64.818	2.180	1.00	44.45	A16S
ATOM	2188	N7	G	A	113	131.939	65.298	3.127	1.00	44.45	A16S
ATOM	2189	C8	G	A	113	132.536	65.084	4.264	1.00	44.45	A16S
ATOM	2190	C2*	G	A	113	135.925	64.933	5.239	1.00	54.03	A16S
ATOM	2191	O2*	G	A	113	136.963	64.122	5.754	1.00	54.03	A16S
ATOM	2192	C3*	G	A	113	135.532	66.000	6.242	1.00	54.03	A16S
ATOM	2193	O3*	G	A	113	136.669	66.577	6.860	1.00	54.03	A16S
ATOM	2194	P	U	A	114	137.327	67.906	6.227	1.00	50.52	A16S
ATOM	2195	O1P	U	A	114	138.508	68.241	7.082	1.00	52.06	A16S
ATOM	2196	O2P	U	A	114	136.256	68.929	6.014	1.00	52.06	A16S
ATOM	2197	O5*	U	A	114	137.853	67.425	4.805	1.00	50.52	A16S
ATOM	2198	C5*	U	A	114	138.993	66.578	4.725	1.00	50.52	A16S
ATOM	2199	C4*	U	A	114	139.244	66.199	3.306	1.00	50.52	A16S
ATOM	2200	O4*	U	A	114	138.056	65.569	2.790	1.00	50.52	A16S
ATOM	2201	C1*	U	A	114	137.920	65.884	1.423	1.00	50.52	A16S
ATOM	2202	N1	U	A	114	136.617	66.524	1.227	1.00	52.06	A16S
ATOM	2203	C6	U	A	114	135.944	67.098	2.267	1.00	52.06	A16S
ATOM	2204	C2	U	A	114	136.090	66.517	-0.044	1.00	52.06	A16S
ATOM	2205	O2	U	A	114	136.660	66.021	-0.998	1.00	52.06	A16S
ATOM	2206	N3	U	A	114	134.866	67.107	-0.166	1.00	52.06	A16S
ATOM	2207	C4	U	A	114	134.130	67.686	0.824	1.00	52.06	A16S
ATOM	2208	O4	U	A	114	133.013	68.132	0.560	1.00	52.06	A16S
ATOM	2209	C5	U	A	114	134.749	67.663	2.117	1.00	52.06	A16S
ATOM	2210	C2*	U	A	114	139.102	66.764	1.015	1.00	50.52	A16S
ATOM	2211	O2*	U	A	114	140.109	65.932	0.475	1.00	50.52	A16S
ATOM	2212	C3*	U	A	114	139.526	67.347	2.352	1.00	50.52	A16S
ATOM	2213	O3*	U	A	114	140.912	67.658	2.361	1.00	50.52	A16S
ATOM	2214	P	G	A	115	141.411	69.118	1.931	1.00	56.18	A16S
ATOM	2215	O1P	G	A	115	142.854	69.170	2.335	1.00	54.53	A16S
ATOM	2216	O2P	G	A	115	140.477	70.134	2.469	1.00	54.53	A16S
ATOM	2217	O5*	G	A	115	141.247	69.121	0.343	1.00	56.18	A16S
ATOM	2218	C5*	G	A	115	142.049	68.257	-0.488	1.00	56.18	A16S
ATOM	2219	C4*	G	A	115	141.618	68.381	-1.928	1.00	56.18	A16S
ATOM	2220	O4*	G	A	115	140.207	68.102	-1.943	1.00	56.18	A16S
ATOM	2221	C1*	G	A	115	139.546	68.984	-2.818	1.00	56.18	A16S
ATOM	2222	N9	G	A	115	138.285	69.379	-2.196	1.00	54.53	A16S
ATOM	2223	C4	G	A	115	137.119	69.676	-2.858	1.00	54.53	A16S
ATOM	2224	N3	G	A	115	136.958	69.720	-4.196	1.00	54.53	A16S
ATOM	2225	C2	G	A	115	135.718	70.026	-4.536	1.00	54.53	A16S
ATOM	2226	N2	G	A	115	135.394	70.143	-5.832	1.00	54.53	A16S



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ATOM	2227	N1	G	A 115	134.709	70.248	-3.636	1.00	54.53	A16S
ATOM	2228	C6	G	A 115	134.846	70.194	-2.255	1.00	54.53	A16S
ATOM	2229	O6	G	A 115	133.865	70.382	-1.538	1.00	54.53	A16S
ATOM	2230	C5	G	A 115	136.183	69.895	-1.872	1.00	54.53	A16S
ATOM	2231	N7	G	A 115	136.755	69.771	-0.612	1.00	54.53	A16S
ATOM	2232	C8	G	A 115	138.005	69.475	-0.853	1.00	54.53	A16S
ATOM	2233	C2*	G	A 115	140.523	70.051	-3.339	1.00	56.18	A16S
ATOM	2234	O2*	G	A 115	140.616	70.031	-4.758	1.00	56.18	A16S
ATOM	2235	C3*	G	A 115	141.781	69.784	-2.496	1.00	56.18	A16S
ATOM	2236	O3*	G	A 115	143.122	70.007	-3.025	1.00	56.18	A16S
ATOM	2237	P	A	A 116	143.651	69.298	-4.403	1.00	51.58	A16S
ATOM	2238	O1P	A	A 116	145.064	69.749	-4.481	1.00	40.15	A16S
ATOM	2239	O2P	A	A 116	142.754	69.527	-5.588	1.00	40.15	A16S
ATOM	2240	O5*	A	A 116	143.706	67.730	-4.124	1.00	51.58	A16S
ATOM	2241	C5*	A	A 116	144.900	66.971	-4.429	1.00	51.58	A16S
ATOM	2242	C4*	A	A 116	144.595	65.848	-5.399	1.00	51.58	A16S
ATOM	2243	O4*	A	A 116	143.535	65.022	-4.845	1.00	51.58	A16S
ATOM	2244	C1*	A	A 116	142.610	64.681	-5.861	1.00	51.58	A16S
ATOM	2245	N9	A	A 116	141.389	65.464	-5.644	1.00	40.15	A16S
ATOM	2246	C4	A	A 116	140.170	65.225	-6.221	1.00	40.15	A16S
ATOM	2247	N3	A	A 116	139.835	64.190	-6.990	1.00	40.15	A16S
ATOM	2248	C2	A	A 116	138.595	64.311	-7.408	1.00	40.15	A16S
ATOM	2249	N1	A	A 116	137.721	65.280	-7.183	1.00	40.15	A16S
ATOM	2250	C6	A	A 116	138.090	66.314	-6.420	1.00	40.15	A16S
ATOM	2251	N6	A	A 116	137.221	67.304	-6.240	1.00	40.15	A16S
ATOM	2252	C5	A	A 116	139.374	66.292	-5.881	1.00	40.15	A16S
ATOM	2253	N7	A	A 116	140.049	67.162	-5.039	1.00	40.15	A16S
ATOM	2254	C8	A	A 116	141.232	66.619	-4.912	1.00	40.15	A16S
ATOM	2255	C2*	A	A 116	143.233	65.102	-7.196	1.00	51.58	A16S
ATOM	2256	O2*	A	A 116	144.001	64.059	-7.743	1.00	51.58	A16S
ATOM	2257	C3*	A	A 116	144.098	66.279	-6.773	1.00	51.58	A16S
ATOM	2258	O3*	A	A 116	145.159	66.518	-7.702	1.00	51.58	A16S
ATOM	2259	P	G	A 117	144.962	67.614	-8.877	1.00	54.76	A16S
ATOM	2260	O1P	G	A 117	144.398	68.845	-8.242	1.00	60.46	A16S
ATOM	2261	O2P	G	A 117	146.210	67.723	-9.690	1.00	60.46	A16S
ATOM	2262	O5*	G	A 117	143.809	66.997	-9.791	1.00	54.76	A16S
ATOM	2263	C5*	G	A 117	144.001	65.778	-10.510	1.00	54.76	A16S
ATOM	2264	C4*	G	A 117	142.699	65.344	-11.120	1.00	54.76	A16S
ATOM	2265	O4*	G	A 117	141.749	65.196	-10.042	1.00	54.76	A16S
ATOM	2266	C1*	G	A 117	140.491	65.716	-10.434	1.00	54.76	A16S
ATOM	2267	N9	G	A 117	140.208	66.835	-9.544	1.00	60.46	A16S
ATOM	2268	C4	G	A 117	139.070	67.606	-9.487	1.00	60.46	A16S
ATOM	2269	N3	G	A 117	137.983	67.481	-10.269	1.00	60.46	A16S
ATOM	2270	C2	G	A 117	137.048	68.360	-9.956	1.00	60.46	A16S
ATOM	2271	N2	G	A 117	135.894	68.379	-10.637	1.00	60.46	A16S
ATOM	2272	N1	G	A 117	137.170	69.287	-8.953	1.00	60.46	A16S
ATOM	2273	C6	G	A 117	138.283	69.433	-8.134	1.00	60.46	A16S
ATOM	2274	O6	G	A 117	138.295	70.293	-7.244	1.00	60.46	A16S
ATOM	2275	C5	G	A 117	139.291	68.505	-8.464	1.00	60.46	A16S
ATOM	2276	N7	G	A 117	140.546	68.316	-7.903	1.00	60.46	A16S
ATOM	2277	C8	G	A 117	141.051	67.318	-8.574	1.00	60.46	A16S
ATOM	2278	C2*	G	A 117	140.591	66.102	-11.913	1.00	54.76	A16S
ATOM	2279	O2*	G	A 117	140.216	65.022	-12.739	1.00	54.76	A16S
ATOM	2280	C3*	G	A 117	142.075	66.364	-12.060	1.00	54.76	A16S
ATOM	2281	O3*	G	A 117	142.472	66.156	-13.403	1.00	54.76	A16S
ATOM	2282	P	U	A 118	142.883	67.419	-14.309	1.00	54.22	A16S
ATOM	2283	O1P	U	A 118	143.233	66.942	-15.676	1.00	61.47	A16S
ATOM	2284	O2P	U	A 118	143.875	68.219	-13.529	1.00	61.47	A16S
ATOM	2285	O5*	U	A 118	141.533	68.251	-14.453	1.00	54.22	A16S
ATOM	2286	C5*	U	A 118	140.395	67.687	-15.110	1.00	54.22	A16S
ATOM	2287	C4*	U	A 118	139.175	68.521	-14.838	1.00	54.22	A16S
ATOM	2288	O4*	U	A 118	138.965	68.611	-13.408	1.00	54.22	A16S
ATOM	2289	C1*	U	A 118	138.376	69.856	-13.087	1.00	54.22	A16S
ATOM	2290	N1	U	A 118	139.228	70.559	-12.119	1.00	61.47	A16S
ATOM	2291	C6	U	A 118	140.551	70.239	-11.956	1.00	61.47	A16S
ATOM	2292	C2	U	A 118	138.647	71.572	-11.377	1.00	61.47	A16S
ATOM	2293	O2	U	A 118	137.471	71.891	-11.494	1.00	61.47	A16S
ATOM	2294	N3	U	A 118	139.489	72.206	-10.498	1.00	61.47	A16S
ATOM	2295	C4	U	A 118	140.821	71.938	-10.291	1.00	61.47	A16S
ATOM	2296	O4	U	A 118	141.445	72.589	-9.456	1.00	61.47	A16S
ATOM	2297	C5	U	A 118	141.347	70.878	-11.093	1.00	61.47	A16S
ATOM	2298	C2*	U	A 118	138.212	70.633	-14.386	1.00	54.22	A16S
ATOM	2299	O2*	U	A 118	136.897	70.421	-14.846	1.00	54.22	A16S
ATOM	2300	C3*	U	A 118	139.248	69.966	-15.277	1.00	54.22	A16S
ATOM	2301	O3*	U	A 118	138.916	70.092	-16.639	1.00	54.22	A16S
ATOM	2302	P	A	A 119	139.768	71.082	-17.565	1.00	58.18	A16S
ATOM	2303	O1P	A	A 119	139.286	70.817	-18.944	1.00	49.07	A16S



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ATOM	2304	O2P	A	A	119	141.204	70.931	-17.236	1.00	49.07	A16S
ATOM	2305	O5*	A	A	119	139.335	72.552	-17.127	1.00	58.18	A16S
ATOM	2306	C5*	A	A	119	138.135	73.158	-17.648	1.00	58.18	A16S
ATOM	2307	C4*	A	A	119	138.419	74.573	-18.090	1.00	58.18	A16S
ATOM	2308	O4*	A	A	119	138.944	75.277	-16.954	1.00	58.18	A16S
ATOM	2309	C1*	A	A	119	139.826	76.280	-17.389	1.00	58.18	A16S
ATOM	2310	N9	A	A	119	140.908	76.392	-16.424	1.00	49.07	A16S
ATOM	2311	C4	A	A	119	141.104	77.473	-15.606	1.00	49.07	A16S
ATOM	2312	N3	A	A	119	140.357	78.586	-15.540	1.00	49.07	A16S
ATOM	2313	C2	A	A	119	140.852	79.428	-14.637	1.00	49.07	A16S
ATOM	2314	N1	A	A	119	141.931	79.294	-13.862	1.00	49.07	A16S
ATOM	2315	C6	A	A	119	142.656	78.159	-13.959	1.00	49.07	A16S
ATOM	2316	N6	A	A	119	143.735	78.024	-13.198	1.00	49.07	A16S
ATOM	2317	C5	A	A	119	142.230	77.186	-14.863	1.00	49.07	A16S
ATOM	2318	N7	A	A	119	142.729	75.934	-15.190	1.00	49.07	A16S
ATOM	2319	C8	A	A	119	141.909	75.506	-16.124	1.00	49.07	A16S
ATOM	2320	C2*	A	A	119	140.232	76.015	-18.838	1.00	58.18	A16S
ATOM	2321	O2*	A	A	119	139.978	77.153	-19.639	1.00	58.18	A16S
ATOM	2322	C3*	A	A	119	139.499	74.706	-19.153	1.00	58.18	A16S
ATOM	2323	O3*	A	A	119	139.014	74.503	-20.506	1.00	58.18	A16S
ATOM	2324	P	A	A	120	137.724	75.313	-21.082	1.00	69.44	A16S
ATOM	2325	O1P	A	A	120	137.667	75.010	-22.543	1.00	49.02	A16S
ATOM	2326	O2P	A	A	120	137.676	76.727	-20.630	1.00	49.02	A16S
ATOM	2327	O5*	A	A	120	136.468	74.575	-20.439	1.00	69.44	A16S
ATOM	2328	C5*	A	A	120	136.046	73.277	-20.896	1.00	69.44	A16S
ATOM	2329	C4*	A	A	120	134.966	72.757	-19.991	1.00	69.44	A16S
ATOM	2330	O4*	A	A	120	135.473	72.853	-18.639	1.00	69.44	A16S
ATOM	2331	C1*	A	A	120	134.461	73.318	-17.772	1.00	69.44	A16S
ATOM	2332	N9	A	A	120	134.929	74.586	-17.203	1.00	49.02	A16S
ATOM	2333	C4	A	A	120	135.488	74.758	-15.960	1.00	49.02	A16S
ATOM	2334	N3	A	A	120	135.666	73.826	-15.010	1.00	49.02	A16S
ATOM	2335	C2	A	A	120	136.261	74.358	-13.936	1.00	49.02	A16S
ATOM	2336	N1	A	A	120	136.677	75.620	-13.727	1.00	49.02	A16S
ATOM	2337	C6	A	A	120	136.493	76.526	-14.715	1.00	49.02	A16S
ATOM	2338	N6	A	A	120	136.936	77.777	-14.531	1.00	49.02	A16S
ATOM	2339	C5	A	A	120	135.853	76.091	-15.892	1.00	49.02	A16S
ATOM	2340	N7	A	A	120	135.500	76.753	-17.052	1.00	49.02	A16S
ATOM	2341	C8	A	A	120	134.949	75.821	-17.792	1.00	49.02	A16S
ATOM	2342	C2*	A	A	120	133.159	73.372	-18.577	1.00	69.44	A16S
ATOM	2343	O2*	A	A	120	132.518	72.117	-18.457	1.00	69.44	A16S
ATOM	2344	C3*	A	A	120	133.678	73.569	-19.994	1.00	69.44	A16S
ATOM	2345	O3*	A	A	120	132.763	73.043	-20.960	1.00	69.44	A16S
ATOM	2346	P	C	A	121	131.815	74.039	-21.801	1.00	66.20	A16S
ATOM	2347	O1P	C	A	121	131.094	73.241	-22.821	1.00	62.27	A16S
ATOM	2348	O2P	C	A	121	132.632	75.195	-22.229	1.00	62.27	A16S
ATOM	2349	O5*	C	A	121	130.750	74.567	-20.744	1.00	66.20	A16S
ATOM	2350	C5*	C	A	121	129.682	73.731	-20.282	1.00	66.20	A16S
ATOM	2351	C4*	C	A	121	129.255	74.166	-18.910	1.00	66.20	A16S
ATOM	2352	O4*	C	A	121	128.856	75.562	-18.943	1.00	66.20	A16S
ATOM	2353	C1*	C	A	121	127.572	75.706	-18.369	1.00	66.20	A16S
ATOM	2354	N1	C	A	121	126.856	76.804	-19.061	1.00	62.27	A16S
ATOM	2355	C6	C	A	121	126.800	76.822	-20.426	1.00	62.27	A16S
ATOM	2356	C2	C	A	121	126.219	77.850	-18.300	1.00	62.27	A16S
ATOM	2357	O2	C	A	121	126.269	77.846	-17.051	1.00	62.27	A16S
ATOM	2358	N3	C	A	121	125.569	78.829	-18.965	1.00	62.27	A16S
ATOM	2359	C4	C	A	121	125.524	78.812	-20.306	1.00	62.27	A16S
ATOM	2360	N4	C	A	121	124.858	79.782	-20.924	1.00	62.27	A16S
ATOM	2361	C5	C	A	121	126.155	77.794	-21.078	1.00	62.27	A16S
ATOM	2362	C2*	C	A	121	126.911	74.330	-18.498	1.00	66.20	A16S
ATOM	2363	O2*	C	A	121	125.925	74.178	-17.493	1.00	66.20	A16S
ATOM	2364	C3*	C	A	121	128.099	73.388	-18.302	1.00	66.20	A16S
ATOM	2365	O3*	C	A	121	128.343	73.247	-16.906	1.00	66.20	A16S
ATOM	2366	P	G	A	122	129.048	71.919	-16.336	1.00	53.54	A16S
ATOM	2367	O1P	G	A	122	128.132	70.777	-16.618	1.00	55.16	A16S
ATOM	2368	O2P	G	A	122	130.452	71.848	-16.789	1.00	55.16	A16S
ATOM	2369	O5*	G	A	122	129.118	72.200	-14.774	1.00	53.54	A16S
ATOM	2370	C5*	G	A	122	129.591	71.196	-13.880	1.00	53.54	A16S
ATOM	2371	C4*	G	A	122	130.540	71.799	-12.895	1.00	53.54	A16S
ATOM	2372	O4*	G	A	122	131.760	72.165	-13.582	1.00	53.54	A16S
ATOM	2373	C1*	G	A	122	132.272	73.378	-13.047	1.00	53.54	A16S
ATOM	2374	N9	G	A	122	132.283	74.380	-14.110	1.00	55.16	A16S
ATOM	2375	C4	G	A	122	132.811	75.649	-14.036	1.00	55.16	A16S
ATOM	2376	N3	G	A	122	133.444	76.187	-12.973	1.00	55.16	A16S
ATOM	2377	C2	G	A	122	133.815	77.431	-13.201	1.00	55.16	A16S
ATOM	2378	N2	G	A	122	134.463	78.124	-12.249	1.00	55.16	A16S
ATOM	2379	N1	G	A	122	133.577	78.088	-14.377	1.00	55.16	A16S
ATOM	2380	C6	G	A	122	132.920	77.553	-15.475	1.00	55.16	A16S



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ATOM	2381	O6	G	A	122	132.739	78.237	-16.476	1.00	55.16	A16S
ATOM	2382	C5	G	A	122	132.531	76.229	-15.250	1.00	55.16	A16S
ATOM	2383	N7	G	A	122	131.864	75.341	-16.081	1.00	55.16	A16S
ATOM	2384	C8	G	A	122	131.744	74.258	-15.366	1.00	55.16	A16S
ATOM	2385	C2*	G	A	122	131.351	73.795	-11.900	1.00	53.54	A16S
ATOM	2386	O2*	G	A	122	131.894	73.376	-10.660	1.00	53.54	A16S
ATOM	2387	C3*	G	A	122	130.055	73.097	-12.295	1.00	53.54	A16S
ATOM	2388	O3*	G	A	122	129.124	72.914	-11.248	1.00	53.54	A16S
ATOM	2389	P	C	A	123	127.909	73.957	-11.106	1.00	48.06	A16S
ATOM	2390	O1P	C	A	123	126.942	73.458	-10.090	1.00	49.25	A16S
ATOM	2391	O2P	C	A	123	127.433	74.265	-12.486	1.00	49.25	A16S
ATOM	2392	O5*	C	A	123	128.625	75.260	-10.542	1.00	48.06	A16S
ATOM	2393	C5*	C	A	123	129.524	75.177	-9.430	1.00	48.06	A16S
ATOM	2394	C4*	C	A	123	130.316	76.455	-9.309	1.00	48.06	A16S
ATOM	2395	O4*	C	A	123	131.225	76.594	-10.436	1.00	48.06	A16S
ATOM	2396	C1*	C	A	123	131.349	77.965	-10.779	1.00	48.06	A16S
ATOM	2397	N1	C	A	123	130.807	78.163	-12.121	1.00	49.25	A16S
ATOM	2398	C6	C	A	123	129.998	77.233	-12.706	1.00	49.25	A16S
ATOM	2399	C2	C	A	123	131.112	79.336	-12.780	1.00	49.25	A16S
ATOM	2400	O2	C	A	123	131.859	80.148	-12.220	1.00	49.25	A16S
ATOM	2401	N3	C	A	123	130.590	79.566	-14.004	1.00	49.25	A16S
ATOM	2402	C4	C	A	123	129.787	78.664	-14.559	1.00	49.25	A16S
ATOM	2403	N4	C	A	123	129.274	78.935	-15.753	1.00	49.25	A16S
ATOM	2404	C5	C	A	123	129.470	77.444	-13.912	1.00	49.25	A16S
ATOM	2405	C2*	C	A	123	130.507	78.769	-9.795	1.00	48.06	A16S
ATOM	2406	O2*	C	A	123	131.321	79.230	-8.744	1.00	48.06	A16S
ATOM	2407	C3*	C	A	123	129.494	77.730	-9.347	1.00	48.06	A16S
ATOM	2408	O3*	C	A	123	128.924	78.040	-8.099	1.00	48.06	A16S
ATOM	2409	P	G	A	124	127.473	78.712	-8.055	1.00	52.87	A16S
ATOM	2410	O1P	G	A	124	127.106	78.795	-6.611	1.00	39.24	A16S
ATOM	2411	O2P	G	A	124	126.571	78.003	-9.018	1.00	39.24	A16S
ATOM	2412	O5*	G	A	124	127.721	80.184	-8.597	1.00	52.87	A16S
ATOM	2413	C5*	G	A	124	128.603	81.072	-7.905	1.00	52.87	A16S
ATOM	2414	C4*	G	A	124	128.628	82.411	-8.587	1.00	52.87	A16S
ATOM	2415	O4*	G	A	124	129.350	82.335	-9.837	1.00	52.87	A16S
ATOM	2416	C1*	G	A	124	128.782	83.234	-10.771	1.00	52.87	A16S
ATOM	2417	N9	G	A	124	128.341	82.470	-11.928	1.00	39.24	A16S
ATOM	2418	C4	G	A	124	128.171	82.940	-13.206	1.00	39.24	A16S
ATOM	2419	N3	G	A	124	128.400	84.199	-13.625	1.00	39.24	A16S
ATOM	2420	C2	G	A	124	128.138	84.343	-14.916	1.00	39.24	A16S
ATOM	2421	N2	G	A	124	128.306	85.537	-15.493	1.00	39.24	A16S
ATOM	2422	N1	G	A	124	127.690	83.330	-15.730	1.00	39.24	A16S
ATOM	2423	C6	G	A	124	127.438	82.028	-15.316	1.00	39.24	A16S
ATOM	2424	O6	G	A	124	126.999	81.185	-16.121	1.00	39.24	A16S
ATOM	2425	C5	G	A	124	127.725	81.859	-13.937	1.00	39.24	A16S
ATOM	2426	N7	G	A	124	127.625	80.732	-13.136	1.00	39.24	A16S
ATOM	2427	C8	G	A	124	128.004	81.143	-11.955	1.00	39.24	A16S
ATOM	2428	C2*	G	A	124	127.625	83.948	-10.079	1.00	52.87	A16S
ATOM	2429	O2*	G	A	124	128.105	85.165	-9.543	1.00	52.87	A16S
ATOM	2430	C3*	G	A	124	127.274	82.967	-8.973	1.00	52.87	A16S
ATOM	2431	O3*	G	A	124	126.679	83.619	-7.874	1.00	52.87	A16S
ATOM	2432	P	U	A	125	125.092	83.814	-7.842	1.00	46.19	A16S
ATOM	2433	O1P	U	A	125	124.850	84.592	-6.581	1.00	53.08	A16S
ATOM	2434	O2P	U	A	125	124.407	82.509	-8.056	1.00	53.08	A16S
ATOM	2435	O5*	U	A	125	124.796	84.708	-9.128	1.00	46.19	A16S
ATOM	2436	C5*	U	A	125	125.133	86.103	-9.133	1.00	46.19	A16S
ATOM	2437	C4*	U	A	125	124.772	86.716	-10.451	1.00	46.19	A16S
ATOM	2438	O4*	U	A	125	125.557	86.073	-11.481	1.00	46.19	A16S
ATOM	2439	C1*	U	A	125	124.797	85.973	-12.666	1.00	46.19	A16S
ATOM	2440	N1	U	A	125	124.769	84.568	-13.108	1.00	53.08	A16S
ATOM	2441	C6	U	A	125	124.864	83.509	-12.228	1.00	53.08	A16S
ATOM	2442	C2	U	A	125	124.636	84.348	-14.466	1.00	53.08	A16S
ATOM	2443	O2	U	A	125	124.555	85.257	-15.273	1.00	53.08	A16S
ATOM	2444	N3	U	A	125	124.604	83.031	-14.850	1.00	53.08	A16S
ATOM	2445	C4	U	A	125	124.701	81.921	-14.041	1.00	53.08	A16S
ATOM	2446	O4	U	A	125	124.806	80.793	-14.568	1.00	53.08	A16S
ATOM	2447	C5	U	A	125	124.834	82.227	-12.636	1.00	53.08	A16S
ATOM	2448	C2*	U	A	125	123.418	86.578	-12.401	1.00	46.19	A16S
ATOM	2449	O2*	U	A	125	123.384	87.897	-12.916	1.00	46.19	A16S
ATOM	2450	C3*	U	A	125	123.334	86.499	-10.878	1.00	46.19	A16S
ATOM	2451	O3*	U	A	125	122.441	87.442	-10.280	1.00	46.19	A16S
ATOM	2452	P	G	A	126	120.918	87.006	-9.964	1.00	41.35	A16S
ATOM	2453	O1P	G	A	126	120.320	88.110	-9.175	1.00	66.93	A16S
ATOM	2454	O2P	G	A	126	120.902	85.627	-9.417	1.00	66.93	A16S
ATOM	2455	O5*	G	A	126	120.223	86.994	-11.399	1.00	41.35	A16S
ATOM	2456	C5*	G	A	126	120.098	88.226	-12.115	1.00	41.35	A16S
ATOM	2457	C4*	G	A	126	119.869	87.984	-13.576	1.00	41.35	A16S



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ATOM	2458	O4*	G	A	126	120.926	87.149	-14.113	1.00	41.35	A16S
ATOM	2459	C1*	G	A	126	120.428	86.421	-15.230	1.00	41.35	A16S
ATOM	2460	N9	G	A	126	120.849	85.020	-15.130	1.00	66.93	A16S
ATOM	2461	C4	G	A	126	120.911	84.092	-16.158	1.00	66.93	A16S
ATOM	2462	N3	G	A	126	120.522	84.288	-17.433	1.00	66.93	A16S
ATOM	2463	C2	G	A	126	120.754	83.226	-18.191	1.00	66.93	A16S
ATOM	2464	N2	G	A	126	120.421	83.241	-19.482	1.00	66.93	A16S
ATOM	2465	N1	G	A	126	121.329	82.071	-17.742	1.00	66.93	A16S
ATOM	2466	C6	G	A	126	121.759	81.847	-16.441	1.00	66.93	A16S
ATOM	2467	O6	G	A	126	122.325	80.774	-16.152	1.00	66.93	A16S
ATOM	2468	C5	G	A	126	121.490	82.970	-15.603	1.00	66.93	A16S
ATOM	2469	N7	G	A	126	121.736	83.160	-14.251	1.00	66.93	A16S
ATOM	2470	C8	G	A	126	121.327	84.380	-14.011	1.00	66.93	A16S
ATOM	2471	C2*	G	A	126	118.927	86.687	-15.323	1.00	41.35	A16S
ATOM	2472	O2*	G	A	126	118.716	87.654	-16.333	1.00	41.35	A16S
ATOM	2473	C3*	G	A	126	118.614	87.226	-13.928	1.00	41.35	A16S
ATOM	2474	O3*	G	A	126	117.463	88.052	-13.908	1.00	41.35	A16S
ATOM	2475	P	G	A	127	116.011	87.356	-13.941	1.00	45.46	A16S
ATOM	2476	O1P	G	A	127	114.991	88.420	-14.207	1.00	53.64	A16S
ATOM	2477	O2P	G	A	127	115.879	86.488	-12.729	1.00	53.64	A16S
ATOM	2478	O5*	G	A	127	116.141	86.450	-15.247	1.00	45.46	A16S
ATOM	2479	C5*	G	A	127	115.229	85.408	-15.559	1.00	45.46	A16S
ATOM	2480	C4*	G	A	127	115.443	85.001	-16.983	1.00	45.46	A16S
ATOM	2481	O4*	G	A	127	116.846	84.725	-17.164	1.00	45.46	A16S
ATOM	2482	C1*	G	A	127	117.014	83.669	-18.098	1.00	45.46	A16S
ATOM	2483	N9	G	A	127	117.639	82.549	-17.400	1.00	53.64	A16S
ATOM	2484	C4	G	A	127	117.930	81.302	-17.920	1.00	53.64	A16S
ATOM	2485	N3	G	A	127	117.738	80.900	-19.197	1.00	53.64	A16S
ATOM	2486	C2	G	A	127	118.089	79.630	-19.376	1.00	53.64	A16S
ATOM	2487	N2	G	A	127	117.973	79.055	-20.580	1.00	53.64	A16S
ATOM	2488	N1	G	A	127	118.579	78.826	-18.384	1.00	53.64	A16S
ATOM	2489	C6	G	A	127	118.778	79.217	-17.061	1.00	53.64	A16S
ATOM	2490	O6	G	A	127	119.211	78.403	-16.228	1.00	53.64	A16S
ATOM	2491	C5	G	A	127	118.422	80.575	-16.858	1.00	53.64	A16S
ATOM	2492	N7	G	A	127	118.482	81.355	-15.708	1.00	53.64	A16S
ATOM	2493	C8	G	A	127	118.016	82.516	-16.078	1.00	53.64	A16S
ATOM	2494	C2*	G	A	127	115.627	83.287	-18.612	1.00	45.46	A16S
ATOM	2495	O2*	G	A	127	115.378	83.925	-19.854	1.00	45.46	A16S
ATOM	2496	C3*	G	A	127	114.744	83.745	-17.454	1.00	45.46	A16S
ATOM	2497	O3*	G	A	127	113.403	83.989	-17.841	1.00	45.46	A16S
ATOM	2498	P	G	A	128	112.293	82.851	-17.601	1.00	50.29	A16S
ATOM	2499	O1P	G	A	128	110.968	83.478	-17.894	1.00	60.35	A16S
ATOM	2500	O2P	G	A	128	112.545	82.257	-16.265	1.00	60.35	A16S
ATOM	2501	O5*	G	A	128	112.606	81.774	-18.731	1.00	50.29	A16S
ATOM	2502	C5*	G	A	128	112.596	82.159	-20.103	1.00	50.29	A16S
ATOM	2503	C4*	G	A	128	113.005	81.004	-20.965	1.00	50.29	A16S
ATOM	2504	O4*	G	A	128	114.372	80.622	-20.674	1.00	50.29	A16S
ATOM	2505	C1*	G	A	128	114.516	79.212	-20.809	1.00	50.29	A16S
ATOM	2506	N9	G	A	128	114.927	78.666	-19.516	1.00	60.35	A16S
ATOM	2507	C4	G	A	128	115.291	77.366	-19.256	1.00	60.35	A16S
ATOM	2508	N3	G	A	128	115.332	76.356	-20.153	1.00	60.35	A16S
ATOM	2509	C2	G	A	128	115.739	75.217	-19.600	1.00	60.35	A16S
ATOM	2510	N2	G	A	128	115.849	74.101	-20.349	1.00	60.35	A16S
ATOM	2511	N1	G	A	128	116.070	75.089	-18.275	1.00	60.35	A16S
ATOM	2512	C6	G	A	128	116.026	76.116	-17.337	1.00	60.35	A16S
ATOM	2513	O6	G	A	128	116.337	75.891	-16.170	1.00	60.35	A16S
ATOM	2514	C5	G	A	128	115.601	77.336	-17.912	1.00	60.35	A16S
ATOM	2515	N7	G	A	128	115.433	78.589	-17.335	1.00	60.35	A16S
ATOM	2516	C8	G	A	128	115.029	79.344	-18.320	1.00	60.35	A16S
ATOM	2517	C2*	G	A	128	113.165	78.659	-21.258	1.00	50.29	A16S
ATOM	2518	O2*	G	A	128	113.113	78.568	-22.668	1.00	50.29	A16S
ATOM	2519	C3*	G	A	128	112.224	79.730	-20.738	1.00	50.29	A16S
ATOM	2520	O3*	G	A	128	111.006	79.726	-21.423	1.00	50.29	A16S
ATOM	2521	P	U	A	129	109.758	79.000	-20.753	1.00	59.79	A16S
ATOM	2522	O1P	U	A	129	108.597	79.230	-21.628	1.00	51.20	A16S
ATOM	2523	O2P	U	A	129	109.703	79.430	-19.322	1.00	51.20	A16S
ATOM	2524	O5*	U	A	129	110.143	77.457	-20.818	1.00	59.79	A16S
ATOM	2525	C5*	U	A	129	110.175	76.739	-22.062	1.00	59.79	A16S
ATOM	2526	C4*	U	A	129	110.416	75.272	-21.790	1.00	59.79	A16S
ATOM	2527	O4*	U	A	129	111.676	75.125	-21.090	1.00	59.79	A16S
ATOM	2528	C1*	U	A	129	111.604	74.017	-20.217	1.00	59.79	A16S
ATOM	2529	N1	U	A	129	112.092	74.415	-18.891	1.00	51.20	A16S
ATOM	2530	C6	U	A	129	111.864	75.658	-18.374	1.00	51.20	A16S
ATOM	2531	C2	U	A	129	112.804	73.473	-18.181	1.00	51.20	A16S
ATOM	2532	O2	U	A	129	113.026	72.336	-18.608	1.00	51.20	A16S
ATOM	2533	N3	U	A	129	113.248	73.892	-16.954	1.00	51.20	A16S
ATOM	2534	C4	U	A	129	113.050	75.117	-16.376	1.00	51.20	A16S



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ATOM	2535	O4	U	A	129	113.416	75.298	-15.215	1.00	51.20	A16S
ATOM	2536	C5	U	A	129	112.310	76.034	-17.175	1.00	51.20	A16S
ATOM	2537	C2*	U	A	129	110.182	73.458	-20.242	1.00	59.79	A16S
ATOM	2538	O2*	U	A	129	110.134	72.267	-21.004	1.00	59.79	A16S
ATOM	2539	C3*	U	A	129	109.402	74.606	-20.870	1.00	59.79	A16S
ATOM	2540	O3*	U	A	129	108.316	74.095	-21.616	1.00	59.79	A16S
ATOM	2541	P	G	A	129A	106.832	74.193	-21.030	1.00	61.68	A16S
ATOM	2542	O1P	G	A	129A	106.384	75.586	-21.254	1.00	71.98	A16S
ATOM	2543	O2P	G	A	129A	106.832	73.631	-19.656	1.00	71.98	A16S
ATOM	2544	O5*	G	A	129A	105.986	73.256	-22.002	1.00	61.68	A16S
ATOM	2545	C5*	G	A	129A	106.607	72.173	-22.732	1.00	61.68	A16S
ATOM	2546	C4*	G	A	129A	106.603	72.482	-24.208	1.00	61.68	A16S
ATOM	2547	O4*	G	A	129A	105.236	72.713	-24.605	1.00	61.68	A16S
ATOM	2548	C1*	G	A	129A	105.197	73.681	-25.626	1.00	61.68	A16S
ATOM	2549	N9	G	A	129A	104.064	74.571	-25.406	1.00	71.98	A16S
ATOM	2550	C4	G	A	129A	103.017	74.764	-26.276	1.00	71.98	A16S
ATOM	2551	N3	G	A	129A	102.850	74.140	-27.461	1.00	71.98	A16S
ATOM	2552	C2	G	A	129A	101.754	74.533	-28.075	1.00	71.98	A16S
ATOM	2553	N2	G	A	129A	101.428	73.992	-29.260	1.00	71.98	A16S
ATOM	2554	N1	G	A	129A	100.896	75.480	-27.574	1.00	71.98	A16S
ATOM	2555	C6	G	A	129A	101.056	76.142	-26.358	1.00	71.98	A16S
ATOM	2556	O6	G	A	129A	100.233	76.995	-26.003	1.00	71.98	A16S
ATOM	2557	C5	G	A	129A	102.215	75.712	-25.681	1.00	71.98	A16S
ATOM	2558	N7	G	A	129A	102.730	76.093	-24.450	1.00	71.98	A16S
ATOM	2559	C8	G	A	129A	103.826	75.388	-24.326	1.00	71.98	A16S
ATOM	2560	C2*	G	A	129A	106.566	74.353	-25.757	1.00	61.68	A16S
ATOM	2561	O2*	G	A	129A	107.067	74.162	-27.062	1.00	61.68	A16S
ATOM	2562	C3*	G	A	129A	107.349	73.757	-24.578	1.00	61.68	A16S
ATOM	2563	O3*	G	A	129A	108.761	73.495	-24.781	1.00	61.68	A16S
ATOM	2564	P	A	A	130	109.264	72.630	-26.056	1.00	48.30	A16S
ATOM	2565	O1P	A	A	130	110.352	73.359	-26.736	1.00	69.53	A16S
ATOM	2566	O2P	A	A	130	108.111	72.141	-26.842	1.00	69.53	A16S
ATOM	2567	O5*	A	A	130	109.917	71.334	-25.429	1.00	48.30	A16S
ATOM	2568	C5*	A	A	130	109.670	70.068	-26.038	1.00	48.30	A16S
ATOM	2569	C4*	A	A	130	109.965	68.958	-25.075	1.00	48.30	A16S
ATOM	2570	O4*	A	A	130	111.381	68.974	-24.780	1.00	48.30	A16S
ATOM	2571	C1*	A	A	130	111.590	69.118	-23.396	1.00	48.30	A16S
ATOM	2572	N9	A	A	130	112.730	70.015	-23.257	1.00	69.53	A16S
ATOM	2573	C4	A	A	130	113.953	69.696	-22.725	1.00	69.53	A16S
ATOM	2574	N3	A	A	130	114.320	68.536	-22.161	1.00	69.53	A16S
ATOM	2575	C2	A	A	130	115.602	68.570	-21.808	1.00	69.53	A16S
ATOM	2576	N1	A	A	130	116.489	69.556	-21.942	1.00	69.53	A16S
ATOM	2577	C6	A	A	130	116.083	70.712	-22.503	1.00	69.53	A16S
ATOM	2578	N6	A	A	130	116.963	71.703	-22.630	1.00	69.53	A16S
ATOM	2579	C5	A	A	130	114.746	70.803	-22.922	1.00	69.53	A16S
ATOM	2580	N7	A	A	130	114.022	71.825	-23.521	1.00	69.53	A16S
ATOM	2581	C8	A	A	130	112.832	71.310	-23.686	1.00	69.53	A16S
ATOM	2582	C2*	A	A	130	110.275	69.611	-22.796	1.00	48.30	A16S
ATOM	2583	O2*	A	A	130	110.180	69.200	-21.449	1.00	48.30	A16S
ATOM	2584	C3*	A	A	130	109.238	68.993	-23.743	1.00	48.30	A16S
ATOM	2585	O3*	A	A	130	108.929	67.628	-23.476	1.00	48.30	A16S
ATOM	2586	P	C	A	131	107.882	67.239	-22.324	1.00	60.78	A16S
ATOM	2587	O1P	C	A	131	107.443	65.852	-22.629	1.00	48.74	A16S
ATOM	2588	O2P	C	A	131	106.856	68.306	-22.124	1.00	48.74	A16S
ATOM	2589	O5*	C	A	131	108.816	67.227	-21.043	1.00	60.78	A16S
ATOM	2590	C5*	C	A	131	108.284	67.044	-19.750	1.00	60.78	A16S
ATOM	2591	C4*	C	A	131	109.296	66.343	-18.905	1.00	60.78	A16S
ATOM	2592	O4*	C	A	131	110.507	67.126	-18.862	1.00	60.78	A16S
ATOM	2593	C1*	C	A	131	111.095	67.005	-17.584	1.00	60.78	A16S
ATOM	2594	N1	C	A	131	111.145	68.345	-16.980	1.00	48.74	A16S
ATOM	2595	C6	C	A	131	110.414	69.369	-17.505	1.00	48.74	A16S
ATOM	2596	C2	C	A	131	111.939	68.556	-15.840	1.00	48.74	A16S
ATOM	2597	O2	C	A	131	112.637	67.636	-15.410	1.00	48.74	A16S
ATOM	2598	N3	C	A	131	111.930	69.761	-15.243	1.00	48.74	A16S
ATOM	2599	C4	C	A	131	111.191	70.743	-15.745	1.00	48.74	A16S
ATOM	2600	N4	C	A	131	111.193	71.912	-15.104	1.00	48.74	A16S
ATOM	2601	C5	C	A	131	110.408	70.572	-16.926	1.00	48.74	A16S
ATOM	2602	C2*	C	A	131	110.244	66.021	-16.773	1.00	60.78	A16S
ATOM	2603	O2*	C	A	131	110.750	64.714	-16.934	1.00	60.78	A16S
ATOM	2604	C3*	C	A	131	108.900	66.139	-17.462	1.00	60.78	A16S
ATOM	2605	O3*	C	A	131	108.161	64.938	-17.362	1.00	60.78	A16S
ATOM	2606	P	C	A	132	107.116	64.750	-16.172	1.00	57.78	A16S
ATOM	2607	O1P	C	A	132	106.220	63.659	-16.611	1.00	63.80	A16S
ATOM	2608	O2P	C	A	132	106.546	66.059	-15.780	1.00	63.80	A16S
ATOM	2609	O5*	C	A	132	108.028	64.265	-14.970	1.00	57.78	A16S
ATOM	2610	C5*	C	A	132	108.754	63.035	-15.051	1.00	57.78	A16S
ATOM	2611	C4*	C	A	132	109.658	62.903	-13.855	1.00	57.78	A16S



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ATOM	2612	O4*	C	A	132	110.666	63.936	-13.933	1.00	57.78	A16S
ATOM	2613	C1*	C	A	132	111.007	64.364	-12.632	1.00	57.78	A16S
ATOM	2614	N1	C	A	132	110.759	65.801	-12.524	1.00	63.80	A16S
ATOM	2615	C6	C	A	132	109.836	66.424	-13.316	1.00	63.80	A16S
ATOM	2616	C2	C	A	132	111.467	66.520	-11.560	1.00	63.80	A16S
ATOM	2617	O2	C	A	132	112.321	65.931	-10.884	1.00	63.80	A16S
ATOM	2618	N3	C	A	132	111.203	67.825	-11.386	1.00	63.80	A16S
ATOM	2619	C4	C	A	132	110.271	68.416	-12.131	1.00	63.80	A16S
ATOM	2620	N4	C	A	132	110.006	69.692	-11.887	1.00	63.80	A16S
ATOM	2621	C5	C	A	132	109.560	67.717	-13.152	1.00	63.80	A16S
ATOM	2622	C2*	C	A	132	110.159	63.584	-11.628	1.00	57.78	A16S
ATOM	2623	O2*	C	A	132	110.918	62.523	-11.092	1.00	57.78	A16S
ATOM	2624	C3*	C	A	132	108.999	63.120	-12.497	1.00	57.78	A16S
ATOM	2625	O3*	C	A	132	108.407	61.934	-11.984	1.00	57.78	A16S
ATOM	2626	P	U	A	133	107.296	62.037	-10.834	1.00	63.13	A16S
ATOM	2627	O1P	U	A	133	106.875	60.662	-10.471	1.00	60.33	A16S
ATOM	2628	O2P	U	A	133	106.284	63.016	-11.312	1.00	60.33	A16S
ATOM	2629	O5*	U	A	133	108.061	62.654	-9.584	1.00	63.13	A16S
ATOM	2630	C5*	U	A	133	109.083	61.915	-8.920	1.00	63.13	A16S
ATOM	2631	C4*	U	A	133	109.623	62.714	-7.766	1.00	63.13	A16S
ATOM	2632	O4*	U	A	133	110.277	63.918	-8.243	1.00	63.13	A16S
ATOM	2633	C1*	U	A	133	110.045	64.985	-7.327	1.00	63.13	A16S
ATOM	2634	N1	U	A	133	109.332	66.055	-8.041	1.00	60.33	A16S
ATOM	2635	C6	U	A	133	108.782	65.823	-9.276	1.00	60.33	A16S
ATOM	2636	C2	U	A	133	109.216	67.290	-7.435	1.00	60.33	A16S
ATOM	2637	O2	U	A	133	109.708	67.557	-6.354	1.00	60.33	A16S
ATOM	2638	N3	U	A	133	108.502	68.207	-8.151	1.00	60.33	A16S
ATOM	2639	C4	U	A	133	107.920	68.027	-9.384	1.00	60.33	A16S
ATOM	2640	O4	U	A	133	107.284	68.942	-9.892	1.00	60.33	A16S
ATOM	2641	C5	U	A	133	108.103	66.742	-9.946	1.00	60.33	A16S
ATOM	2642	C2*	U	A	133	109.224	64.425	-6.162	1.00	63.13	A16S
ATOM	2643	O2*	U	A	133	110.072	64.075	-5.088	1.00	63.13	A16S
ATOM	2644	C3*	U	A	133	108.568	63.212	-6.802	1.00	63.13	A16S
ATOM	2645	O3*	U	A	133	108.295	62.228	-5.847	1.00	63.13	A16S
ATOM	2646	P	A	A	134	106.785	61.924	-5.465	1.00	64.46	A16S
ATOM	2647	O1P	A	A	134	106.171	61.231	-6.647	1.00	52.39	A16S
ATOM	2648	O2P	A	A	134	106.185	63.177	-4.941	1.00	52.39	A16S
ATOM	2649	O5*	A	A	134	106.925	60.934	-4.233	1.00	64.46	A16S
ATOM	2650	C5*	A	A	134	107.018	59.517	-4.416	1.00	64.46	A16S
ATOM	2651	C4*	A	A	134	107.628	58.899	-3.192	1.00	64.46	A16S
ATOM	2652	O4*	A	A	134	109.008	59.321	-3.127	1.00	64.46	A16S
ATOM	2653	C1*	A	A	134	109.347	59.638	-1.793	1.00	64.46	A16S
ATOM	2654	N9	A	A	134	109.768	61.045	-1.761	1.00	52.39	A16S
ATOM	2655	C4	A	A	134	110.343	61.701	-0.702	1.00	52.39	A16S
ATOM	2656	N3	A	A	134	110.615	61.199	0.508	1.00	52.39	A16S
ATOM	2657	C2	A	A	134	111.174	62.123	1.281	1.00	52.39	A16S
ATOM	2658	N1	A	A	134	111.475	63.391	1.001	1.00	52.39	A16S
ATOM	2659	C6	A	A	134	111.192	63.861	-0.228	1.00	52.39	A16S
ATOM	2660	N6	A	A	134	111.507	65.127	-0.511	1.00	52.39	A16S
ATOM	2661	C5	A	A	134	110.587	62.986	-1.138	1.00	52.39	A16S
ATOM	2662	N7	A	A	134	110.164	63.152	-2.447	1.00	52.39	A16S
ATOM	2663	C8	A	A	134	109.687	61.977	-2.772	1.00	52.39	A16S
ATOM	2664	C2*	A	A	134	108.141	59.285	-0.910	1.00	64.46	A16S
ATOM	2665	O2*	A	A	134	108.279	57.969	-0.421	1.00	64.46	A16S
ATOM	2666	C3*	A	A	134	106.994	59.377	-1.899	1.00	64.46	A16S
ATOM	2667	O3*	A	A	134	105.884	58.563	-1.543	1.00	64.46	A16S
ATOM	2668	P	C	A	135	104.475	59.252	-1.167	1.00	55.83	A16S
ATOM	2669	O1P	C	A	135	103.476	58.145	-1.004	1.00	69.37	A16S
ATOM	2670	O2P	C	A	135	104.200	60.338	-2.128	1.00	69.37	A16S
ATOM	2671	O5*	C	A	135	104.757	59.935	0.246	1.00	55.83	A16S
ATOM	2672	C5*	C	A	135	105.206	59.135	1.348	1.00	55.83	A16S
ATOM	2673	C4*	C	A	135	105.879	59.983	2.397	1.00	55.83	A16S
ATOM	2674	O4*	C	A	135	107.136	60.504	1.897	1.00	55.83	A16S
ATOM	2675	C1*	C	A	135	107.413	61.748	2.519	1.00	55.83	A16S
ATOM	2676	N1	C	A	135	107.566	62.792	1.483	1.00	69.37	A16S
ATOM	2677	C6	C	A	135	107.017	62.647	0.238	1.00	69.37	A16S
ATOM	2678	C2	C	A	135	108.281	63.951	1.806	1.00	69.37	A16S
ATOM	2679	O2	C	A	135	108.781	64.046	2.931	1.00	69.37	A16S
ATOM	2680	N3	C	A	135	108.414	64.935	0.883	1.00	69.37	A16S
ATOM	2681	C4	C	A	135	107.879	64.783	-0.333	1.00	69.37	A16S
ATOM	2682	N4	C	A	135	108.054	65.774	-1.233	1.00	69.37	A16S
ATOM	2683	C5	C	A	135	107.146	63.607	-0.691	1.00	69.37	A16S
ATOM	2684	C2*	C	A	135	106.261	62.044	3.479	1.00	55.83	A16S
ATOM	2685	O2*	C	A	135	106.595	61.579	4.767	1.00	55.83	A16S
ATOM	2686	C3*	C	A	135	105.138	61.214	2.878	1.00	55.83	A16S
ATOM	2687	O3*	C	A	135	104.127	60.918	3.824	1.00	55.83	A16S
ATOM	2688	P	C	A	136	102.643	61.494	3.591	1.00	63.96	A16S



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ATOM	2689	O1P	C	A	136	101.780	60.945	4.676	1.00	63.81	A16S
ATOM	2690	O2P	C	A	136	102.279	61.265	2.165	1.00	63.81	A16S
ATOM	2691	O5*	C	A	136	102.794	63.061	3.798	1.00	63.96	A16S
ATOM	2692	C5*	C	A	136	103.383	63.582	4.991	1.00	63.96	A16S
ATOM	2693	C4*	C	A	136	103.364	65.085	4.957	1.00	63.96	A16S
ATOM	2694	O4*	C	A	136	104.356	65.572	4.020	1.00	63.96	A16S
ATOM	2695	C1*	C	A	136	103.864	66.732	3.371	1.00	63.96	A16S
ATOM	2696	N1	C	A	136	103.749	66.438	1.942	1.00	63.81	A16S
ATOM	2697	C6	C	A	136	103.709	65.148	1.495	1.00	63.81	A16S
ATOM	2698	C2	C	A	136	103.663	67.498	1.043	1.00	63.81	A16S
ATOM	2699	O2	C	A	136	103.743	68.665	1.478	1.00	63.81	A16S
ATOM	2700	N3	C	A	136	103.505	67.229	-0.278	1.00	63.81	A16S
ATOM	2701	C4	C	A	136	103.450	65.961	-0.700	1.00	63.81	A16S
ATOM	2702	N4	C	A	136	103.277	65.733	-2.003	1.00	63.81	A16S
ATOM	2703	C5	C	A	136	103.566	64.869	0.196	1.00	63.81	A16S
ATOM	2704	C2*	C	A	136	102.494	67.059	3.963	1.00	63.96	A16S
ATOM	2705	O2*	C	A	136	102.631	68.017	4.994	1.00	63.96	A16S
ATOM	2706	C3*	C	A	136	102.057	65.699	4.484	1.00	63.96	A16S
ATOM	2707	O3*	C	A	136	101.105	65.804	5.531	1.00	63.96	A16S
ATOM	2708	P	C	A	137	99.552	65.574	5.204	1.00	72.25	A16S
ATOM	2709	O1P	C	A	137	98.853	65.344	6.497	1.00	72.16	A16S
ATOM	2710	O2P	C	A	137	99.438	64.576	4.101	1.00	72.16	A16S
ATOM	2711	O5*	C	A	137	99.073	66.960	4.602	1.00	72.25	A16S
ATOM	2712	C5*	C	A	137	99.234	68.178	5.327	1.00	72.25	A16S
ATOM	2713	C4*	C	A	137	98.888	69.330	4.431	1.00	72.25	A16S
ATOM	2714	O4*	C	A	137	99.879	69.426	3.380	1.00	72.25	A16S
ATOM	2715	C1*	C	A	137	99.255	69.790	2.163	1.00	72.25	A16S
ATOM	2716	N1	C	A	137	99.508	68.737	1.167	1.00	72.16	A16S
ATOM	2717	C6	C	A	137	100.045	67.533	1.528	1.00	72.16	A16S
ATOM	2718	C2	C	A	137	99.174	68.989	-0.168	1.00	72.16	A16S
ATOM	2719	O2	C	A	137	98.697	70.090	-0.468	1.00	72.16	A16S
ATOM	2720	N3	C	A	137	99.372	68.030	-1.094	1.00	72.16	A16S
ATOM	2721	C4	C	A	137	99.875	66.852	-0.733	1.00	72.16	A16S
ATOM	2722	N4	C	A	137	100.019	65.922	-1.679	1.00	72.16	A16S
ATOM	2723	C5	C	A	137	100.242	66.569	0.620	1.00	72.16	A16S
ATOM	2724	C2*	C	A	137	97.761	69.967	2.431	1.00	72.25	A16S
ATOM	2725	O2*	C	A	137	97.442	71.333	2.609	1.00	72.25	A16S
ATOM	2726	C3*	C	A	137	97.584	69.129	3.685	1.00	72.25	A16S
ATOM	2727	O3*	C	A	137	96.453	69.479	4.452	1.00	72.25	A16S
ATOM	2728	P	G	A	138	95.078	68.697	4.205	1.00	64.01	A16S
ATOM	2729	O1P	G	A	138	94.185	69.104	5.304	1.00	68.43	A16S
ATOM	2730	O2P	G	A	138	95.358	67.264	3.990	1.00	68.43	A16S
ATOM	2731	O5*	G	A	138	94.558	69.287	2.824	1.00	64.01	A16S
ATOM	2732	C5*	G	A	138	94.294	70.679	2.707	1.00	64.01	A16S
ATOM	2733	C4*	G	A	138	93.814	71.007	1.329	1.00	64.01	A16S
ATOM	2734	O4*	G	A	138	94.902	70.910	0.379	1.00	64.01	A16S
ATOM	2735	C1*	G	A	138	94.369	70.631	-0.906	1.00	64.01	A16S
ATOM	2736	N9	G	A	138	95.017	69.452	-1.467	1.00	68.43	A16S
ATOM	2737	C4	G	A	138	94.923	69.043	-2.770	1.00	68.43	A16S
ATOM	2738	N3	G	A	138	94.229	69.661	-3.737	1.00	68.43	A16S
ATOM	2739	C2	G	A	138	94.290	69.007	-4.883	1.00	68.43	A16S
ATOM	2740	N2	G	A	138	93.615	69.461	-5.947	1.00	68.43	A16S
ATOM	2741	N1	G	A	138	95.001	67.854	-5.073	1.00	68.43	A16S
ATOM	2742	C6	G	A	138	95.729	67.201	-4.094	1.00	68.43	A16S
ATOM	2743	O6	G	A	138	96.330	66.157	-4.371	1.00	68.43	A16S
ATOM	2744	C5	G	A	138	95.655	67.883	-2.846	1.00	68.43	A16S
ATOM	2745	N7	G	A	138	96.211	67.570	-1.612	1.00	68.43	A16S
ATOM	2746	C8	G	A	138	95.810	68.533	-0.825	1.00	68.43	A16S
ATOM	2747	C2*	G	A	138	92.869	70.400	-0.748	1.00	64.01	A16S
ATOM	2748	O2*	G	A	138	92.196	71.582	-1.137	1.00	64.01	A16S
ATOM	2749	C3*	G	A	138	92.760	70.094	0.741	1.00	64.01	A16S
ATOM	2750	O3*	G	A	138	91.464	70.330	1.258	1.00	64.01	A16S
ATOM	2751	P	G	A	139	90.403	69.126	1.277	1.00	69.75	A16S
ATOM	2752	O1P	G	A	139	89.196	69.633	1.965	1.00	70.92	A16S
ATOM	2753	O2P	G	A	139	91.089	67.916	1.799	1.00	70.92	A16S
ATOM	2754	O5*	G	A	139	90.068	68.906	-0.267	1.00	69.75	A16S
ATOM	2755	C5*	G	A	139	89.416	69.944	-1.012	1.00	69.75	A16S
ATOM	2756	C4*	G	A	139	89.284	69.568	-2.466	1.00	69.75	A16S
ATOM	2757	O4*	G	A	139	90.597	69.472	-3.074	1.00	69.75	A16S
ATOM	2758	C1*	G	A	139	90.576	68.504	-4.119	1.00	69.75	A16S
ATOM	2759	N9	G	A	139	91.524	67.436	-3.800	1.00	70.92	A16S
ATOM	2760	C4	G	A	139	91.948	66.431	-4.650	1.00	70.92	A16S
ATOM	2761	N3	G	A	139	91.593	66.279	-5.943	1.00	70.92	A16S
ATOM	2762	C2	G	A	139	92.136	65.193	-6.482	1.00	70.92	A16S
ATOM	2763	N2	G	A	139	91.891	64.891	-7.760	1.00	70.92	A16S
ATOM	2764	N1	G	A	139	92.960	64.325	-5.810	1.00	70.92	A16S
ATOM	2765	C6	G	A	139	93.352	64.465	-4.484	1.00	70.92	A16S



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ATOM	2766	O6	G	A	139	94.116	63.630	-3.975	1.00	70.92	A16S
ATOM	2767	C5	G	A	139	92.773	65.630	-3.887	1.00	70.92	A16S
ATOM	2768	N7	G	A	139	92.890	66.133	-2.596	1.00	70.92	A16S
ATOM	2769	C8	G	A	139	92.141	67.205	-2.592	1.00	70.92	A16S
ATOM	2770	C2*	G	A	139	89.153	67.951	-4.196	1.00	69.75	A16S
ATOM	2771	O2*	G	A	139	88.443	68.622	-5.218	1.00	69.75	A16S
ATOM	2772	C3*	G	A	139	88.641	68.232	-2.784	1.00	69.75	A16S
ATOM	2773	O3*	G	A	139	87.220	68.241	-2.686	1.00	69.75	A16S
ATOM	2774	P	A	A	140	86.444	66.871	-2.324	1.00	78.20	A16S
ATOM	2775	O1P	A	A	140	85.015	67.233	-2.169	1.00	71.93	A16S
ATOM	2776	O2P	A	A	140	87.145	66.178	-1.204	1.00	71.93	A16S
ATOM	2777	O5*	A	A	140	86.596	66.008	-3.656	1.00	78.20	A16S
ATOM	2778	C5*	A	A	140	86.140	66.536	-4.911	1.00	78.20	A16S
ATOM	2779	C4*	A	A	140	86.311	65.519	-6.000	1.00	78.20	A16S
ATOM	2780	O4*	A	A	140	87.715	65.367	-6.326	1.00	78.20	A16S
ATOM	2781	C1*	A	A	140	87.982	64.015	-6.679	1.00	78.20	A16S
ATOM	2782	N9	A	A	140	88.982	63.475	-5.753	1.00	71.93	A16S
ATOM	2783	C4	A	A	140	89.845	62.436	-6.006	1.00	71.93	A16S
ATOM	2784	N3	A	A	140	89.938	61.708	-7.129	1.00	71.93	A16S
ATOM	2785	C2	A	A	140	90.899	60.796	-7.016	1.00	71.93	A16S
ATOM	2786	N1	A	A	140	91.715	60.547	-5.987	1.00	71.93	A16S
ATOM	2787	C6	A	A	140	91.592	61.296	-4.872	1.00	71.93	A16S
ATOM	2788	N6	A	A	140	92.401	61.050	-3.844	1.00	71.93	A16S
ATOM	2789	C5	A	A	140	90.612	62.294	-4.862	1.00	71.93	A16S
ATOM	2790	N7	A	A	140	90.232	63.214	-3.896	1.00	71.93	A16S
ATOM	2791	C8	A	A	140	89.264	63.888	-4.469	1.00	71.93	A16S
ATOM	2792	C2*	A	A	140	86.663	63.249	-6.603	1.00	78.20	A16S
ATOM	2793	O2*	A	A	140	86.092	63.140	-7.894	1.00	78.20	A16S
ATOM	2794	C3*	A	A	140	85.865	64.120	-5.639	1.00	78.20	A16S
ATOM	2795	O3*	A	A	140	84.468	63.944	-5.727	1.00	78.20	A16S
ATOM	2796	P	A	A	141	83.757	62.886	-4.750	1.00	114.31	A16S
ATOM	2797	O1P	A	A	141	82.302	63.025	-5.003	1.00	62.08	A16S
ATOM	2798	O2P	A	A	141	84.286	63.041	-3.355	1.00	62.08	A16S
ATOM	2799	O5*	A	A	141	84.250	61.475	-5.307	1.00	114.31	A16S
ATOM	2800	C5*	A	A	141	83.905	61.055	-6.640	1.00	114.31	A16S
ATOM	2801	C4*	A	A	141	84.719	59.850	-7.055	1.00	114.31	A16S
ATOM	2802	O4*	A	A	141	86.129	60.199	-7.103	1.00	114.31	A16S
ATOM	2803	C1*	A	A	141	86.913	59.053	-6.795	1.00	114.31	A16S
ATOM	2804	N9	A	A	141	87.689	59.286	-5.572	1.00	62.08	A16S
ATOM	2805	C4	A	A	141	88.774	58.531	-5.177	1.00	62.08	A16S
ATOM	2806	N3	A	A	141	89.333	57.495	-5.835	1.00	62.08	A16S
ATOM	2807	C2	A	A	141	90.360	57.002	-5.148	1.00	62.08	A16S
ATOM	2808	N1	A	A	141	90.850	57.391	-3.965	1.00	62.08	A16S
ATOM	2809	C6	A	A	141	90.261	58.427	-3.325	1.00	62.08	A16S
ATOM	2810	N6	A	A	141	90.738	58.800	-2.136	1.00	62.08	A16S
ATOM	2811	C5	A	A	141	89.168	59.048	-3.954	1.00	62.08	A16S
ATOM	2812	N7	A	A	141	88.362	60.121	-3.588	1.00	62.08	A16S
ATOM	2813	C8	A	A	141	87.506	60.227	-4.579	1.00	62.08	A16S
ATOM	2814	C2*	A	A	141	85.951	57.895	-6.570	1.00	114.31	A16S
ATOM	2815	O2*	A	A	141	85.764	57.178	-7.775	1.00	114.31	A16S
ATOM	2816	C3*	A	A	141	84.699	58.636	-6.140	1.00	114.31	A16S
ATOM	2817	O3*	A	A	141	83.572	57.796	-6.245	1.00	114.31	A16S
ATOM	2818	P	G	A	142	83.200	56.842	-5.003	1.00	89.83	A16S
ATOM	2819	O1P	G	A	142	81.898	56.225	-5.358	1.00	57.47	A16S
ATOM	2820	O2P	G	A	142	83.335	57.615	-3.731	1.00	57.47	A16S
ATOM	2821	O5*	G	A	142	84.342	55.724	-4.982	1.00	89.83	A16S
ATOM	2822	C5*	G	A	142	84.510	54.838	-6.098	1.00	89.83	A16S
ATOM	2823	C4*	G	A	142	85.716	53.937	-5.920	1.00	89.83	A16S
ATOM	2824	O4*	G	A	142	86.932	54.721	-5.800	1.00	89.83	A16S
ATOM	2825	C1*	G	A	142	87.895	53.985	-5.063	1.00	89.83	A16S
ATOM	2826	N9	G	A	142	88.226	54.710	-3.842	1.00	57.47	A16S
ATOM	2827	C4	G	A	142	89.300	54.460	-3.029	1.00	57.47	A16S
ATOM	2828	N3	G	A	142	90.235	53.508	-3.227	1.00	57.47	A16S
ATOM	2829	C2	G	A	142	91.152	53.507	-2.273	1.00	57.47	A16S
ATOM	2830	N2	G	A	142	92.154	52.618	-2.320	1.00	57.47	A16S
ATOM	2831	N1	G	A	142	91.148	54.376	-1.208	1.00	57.47	A16S
ATOM	2832	C6	G	A	142	90.185	55.364	-0.986	1.00	57.47	A16S
ATOM	2833	O6	G	A	142	90.260	56.097	0.010	1.00	57.47	A16S
ATOM	2834	C5	G	A	142	89.204	55.373	-2.003	1.00	57.47	A16S
ATOM	2835	N7	G	A	142	88.096	56.187	-2.169	1.00	57.47	A16S
ATOM	2836	C8	G	A	142	87.543	55.756	-3.270	1.00	57.47	A16S
ATOM	2837	C2*	G	A	142	87.267	52.646	-4.710	1.00	89.83	A16S
ATOM	2838	O2*	G	A	142	87.595	51.747	-5.742	1.00	89.83	A16S
ATOM	2839	C3*	G	A	142	85.784	52.989	-4.734	1.00	89.83	A16S
ATOM	2840	O3*	G	A	142	85.009	51.809	-4.911	1.00	89.83	A16S
ATOM	2841	P	A	A	143	84.595	50.929	-3.624	1.00	95.96	A16S
ATOM	2842	O1P	A	A	143	83.543	49.998	-4.094	1.00	81.67	A16S



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ATOM	2843	O2P	A	A	143	84.343	51.810	-2.450	1.00	81.67	A16S
ATOM	2844	O5*	A	A	143	85.883	50.069	-3.279	1.00	95.96	A16S
ATOM	2845	C5*	A	A	143	86.354	49.067	-4.183	1.00	95.96	A16S
ATOM	2846	C4*	A	A	143	87.633	48.472	-3.663	1.00	95.96	A16S
ATOM	2847	O4*	A	A	143	88.627	49.522	-3.528	1.00	95.96	A16S
ATOM	2848	C1*	A	A	143	89.424	49.285	-2.384	1.00	95.96	A16S
ATOM	2849	N9	A	A	143	89.196	50.374	-1.438	1.00	81.67	A16S
ATOM	2850	C4	A	A	143	89.993	50.682	-0.365	1.00	81.67	A16S
ATOM	2851	N3	A	A	143	91.119	50.052	0.022	1.00	81.67	A16S
ATOM	2852	C2	A	A	143	91.627	50.629	1.117	1.00	81.67	A16S
ATOM	2853	N1	A	A	143	91.169	51.685	1.816	1.00	81.67	A16S
ATOM	2854	C6	A	A	143	90.029	52.288	1.402	1.00	81.67	A16S
ATOM	2855	N6	A	A	143	89.563	53.327	2.102	1.00	81.67	A16S
ATOM	2856	C5	A	A	143	89.395	51.774	0.248	1.00	81.67	A16S
ATOM	2857	N7	A	A	143	88.239	52.145	-0.427	1.00	81.67	A16S
ATOM	2858	C8	A	A	143	88.166	51.286	-1.415	1.00	81.67	A16S
ATOM	2859	C2*	A	A	143	88.985	47.948	-1.796	1.00	95.96	A16S
ATOM	2860	O2*	A	A	143	89.773	46.923	-2.366	1.00	95.96	A16S
ATOM	2861	C3*	A	A	143	87.545	47.868	-2.274	1.00	95.96	A16S
ATOM	2862	O3*	A	A	143	87.055	46.537	-2.296	1.00	95.96	A16S
ATOM	2863	P	G	A	144	86.351	45.942	-0.987	1.00	105.26	A16S
ATOM	2864	O1P	G	A	144	85.360	46.952	-0.519	1.00	91.51	A16S
ATOM	2865	O2P	G	A	144	87.413	45.477	-0.068	1.00	91.51	A16S
ATOM	2866	O5*	G	A	144	85.574	44.670	-1.530	1.00	105.26	A16S
ATOM	2867	C5*	G	A	144	84.189	44.757	-1.884	1.00	105.26	A16S
ATOM	2868	C4*	G	A	144	83.918	43.915	-3.098	1.00	105.26	A16S
ATOM	2869	O4*	G	A	144	84.413	44.583	-4.287	1.00	105.26	A16S
ATOM	2870	C1*	G	A	144	84.880	43.615	-5.216	1.00	105.26	A16S
ATOM	2871	N9	G	A	144	86.301	43.850	-5.472	1.00	91.51	A16S
ATOM	2872	C4	G	A	144	87.052	43.243	-6.453	1.00	91.51	A16S
ATOM	2873	N3	G	A	144	86.594	42.361	-7.368	1.00	91.51	A16S
ATOM	2874	C2	G	A	144	87.555	41.921	-8.155	1.00	91.51	A16S
ATOM	2875	N2	G	A	144	87.267	41.031	-9.109	1.00	91.51	A16S
ATOM	2876	N1	G	A	144	88.868	42.317	-8.059	1.00	91.51	A16S
ATOM	2877	C6	G	A	144	89.369	43.222	-7.124	1.00	91.51	A16S
ATOM	2878	O6	G	A	144	90.580	43.499	-7.112	1.00	91.51	A16S
ATOM	2879	C5	G	A	144	88.341	43.707	-6.270	1.00	91.51	A16S
ATOM	2880	N7	G	A	144	88.396	44.611	-5.214	1.00	91.51	A16S
ATOM	2881	C8	G	A	144	87.163	44.671	-4.776	1.00	91.51	A16S
ATOM	2882	C2*	G	A	144	84.660	42.231	-4.597	1.00	105.26	A16S
ATOM	2883	O2*	G	A	144	83.465	41.640	-5.075	1.00	105.26	A16S
ATOM	2884	C3*	G	A	144	84.616	42.567	-3.113	1.00	105.26	A16S
ATOM	2885	O3*	G	A	144	83.964	41.583	-2.330	1.00	105.26	A16S
ATOM	2886	P	G	A	145	84.846	40.466	-1.580	1.00	97.05	A16S
ATOM	2887	O1P	G	A	145	83.906	39.695	-0.721	1.00	92.35	A16S
ATOM	2888	O2P	G	A	145	86.032	41.139	-0.957	1.00	92.35	A16S
ATOM	2889	O5*	G	A	145	85.316	39.504	-2.767	1.00	97.05	A16S
ATOM	2890	C5*	G	A	145	84.334	38.771	-3.525	1.00	97.05	A16S
ATOM	2891	C4*	G	A	145	84.967	38.030	-4.679	1.00	97.05	A16S
ATOM	2892	O4*	G	A	145	85.437	38.958	-5.690	1.00	97.05	A16S
ATOM	2893	C1*	G	A	145	86.574	38.413	-6.346	1.00	97.05	A16S
ATOM	2894	N9	G	A	145	87.734	39.251	-6.048	1.00	92.35	A16S
ATOM	2895	C4	G	A	145	88.959	39.200	-6.671	1.00	92.35	A16S
ATOM	2896	N3	G	A	145	89.281	38.415	-7.717	1.00	92.35	A16S
ATOM	2897	C2	G	A	145	90.543	38.558	-8.067	1.00	92.35	A16S
ATOM	2898	N2	G	A	145	91.022	37.852	-9.092	1.00	92.35	A16S
ATOM	2899	N1	G	A	145	91.425	39.404	-7.435	1.00	92.35	A16S
ATOM	2900	C6	G	A	145	91.114	40.218	-6.348	1.00	92.35	A16S
ATOM	2901	O6	G	A	145	91.990	40.933	-5.827	1.00	92.35	A16S
ATOM	2902	C5	G	A	145	89.760	40.082	-5.975	1.00	92.35	A16S
ATOM	2903	N7	G	A	145	89.044	40.710	-4.968	1.00	92.35	A16S
ATOM	2904	C8	G	A	145	87.846	40.196	-5.055	1.00	92.35	A16S
ATOM	2905	C2*	G	A	145	86.810	37.024	-5.754	1.00	97.05	A16S
ATOM	2906	O2*	G	A	145	86.178	36.030	-6.541	1.00	97.05	A16S
ATOM	2907	C3*	G	A	145	86.176	37.169	-4.380	1.00	97.05	A16S
ATOM	2908	O3*	G	A	145	85.854	35.911	-3.833	1.00	97.05	A16S
ATOM	2909	P	G	A	146	86.974	35.111	-3.008	1.00	90.93	A16S
ATOM	2910	O1P	G	A	146	86.297	33.959	-2.364	1.00	89.48	A16S
ATOM	2911	O2P	G	A	146	87.700	36.094	-2.158	1.00	89.48	A16S
ATOM	2912	O5*	G	A	146	87.970	34.559	-4.133	1.00	90.93	A16S
ATOM	2913	C5*	G	A	146	87.525	33.589	-5.111	1.00	90.93	A16S
ATOM	2914	C4*	G	A	146	88.586	33.350	-6.173	1.00	90.93	A16S
ATOM	2915	O4*	G	A	146	88.894	34.597	-6.848	1.00	90.93	A16S
ATOM	2916	C1*	G	A	146	90.243	34.576	-7.302	1.00	90.93	A16S
ATOM	2917	N9	G	A	146	90.991	35.657	-6.662	1.00	89.48	A16S
ATOM	2918	C4	G	A	146	92.277	36.046	-6.969	1.00	89.48	A16S
ATOM	2919	N3	G	A	146	93.052	35.527	-7.944	1.00	89.48	A16S



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ATOM	2920	C2	G	A	146	94.239	36.096	-7.984	1.00	89.48	A16S
ATOM	2921	N2	G	A	146	95.129	35.707	-8.909	1.00	89.48	A16S
ATOM	2922	N1	G	A	146	94.638	37.091	-7.127	1.00	89.48	A16S
ATOM	2923	C6	G	A	146	93.851	37.641	-6.117	1.00	89.48	A16S
ATOM	2924	O6	G	A	146	94.300	38.544	-5.396	1.00	89.48	A16S
ATOM	2925	C5	G	A	146	92.579	37.044	-6.070	1.00	89.48	A16S
ATOM	2926	N7	G	A	146	91.502	37.299	-5.233	1.00	89.48	A16S
ATOM	2927	C8	G	A	146	90.583	36.458	-5.623	1.00	89.48	A16S
ATOM	2928	C2*	G	A	146	90.840	33.228	-6.907	1.00	90.93	A16S
ATOM	2929	O2*	G	A	146	90.751	32.329	-7.992	1.00	90.93	A16S
ATOM	2930	C3*	G	A	146	89.950	32.823	-5.743	1.00	90.93	A16S
ATOM	2931	O3*	G	A	146	89.999	31.416	-5.603	1.00	90.93	A16S
ATOM	2932	P	G	A	147	91.158	30.750	-4.707	1.00	93.30	A16S
ATOM	2933	O1P	G	A	147	90.772	29.321	-4.521	1.00	83.86	A16S
ATOM	2934	O2P	G	A	147	91.390	31.619	-3.513	1.00	83.86	A16S
ATOM	2935	O5*	G	A	147	92.473	30.815	-5.607	1.00	93.30	A16S
ATOM	2936	C5*	G	A	147	92.615	29.977	-6.762	1.00	93.30	A16S
ATOM	2937	C4*	G	A	147	93.922	30.263	-7.462	1.00	93.30	A16S
ATOM	2938	O4*	G	A	147	93.971	31.670	-7.815	1.00	93.30	A16S
ATOM	2939	C1*	G	A	147	95.311	32.134	-7.756	1.00	93.30	A16S
ATOM	2940	N9	G	A	147	95.425	33.152	-6.714	1.00	83.86	A16S
ATOM	2941	C4	G	A	147	96.548	33.896	-6.435	1.00	83.86	A16S
ATOM	2942	N3	G	A	147	97.726	33.834	-7.098	1.00	83.86	A16S
ATOM	2943	C2	G	A	147	98.618	34.670	-6.597	1.00	83.86	A16S
ATOM	2944	N2	G	A	147	99.841	34.746	-7.148	1.00	83.86	A16S
ATOM	2945	N1	G	A	147	98.376	35.493	-5.521	1.00	83.86	A16S
ATOM	2946	C6	G	A	147	97.173	35.561	-4.818	1.00	83.86	A16S
ATOM	2947	O6	G	A	147	97.063	36.320	-3.845	1.00	83.86	A16S
ATOM	2948	C5	G	A	147	96.205	34.683	-5.358	1.00	83.86	A16S
ATOM	2949	N7	G	A	147	94.891	34.456	-4.978	1.00	83.86	A16S
ATOM	2950	C8	G	A	147	94.468	33.543	-5.808	1.00	83.86	A16S
ATOM	2951	C2*	G	A	147	96.183	30.941	-7.395	1.00	93.30	A16S
ATOM	2952	O2*	G	A	147	96.662	30.346	-8.580	1.00	93.30	A16S
ATOM	2953	C3*	G	A	147	95.193	30.055	-6.660	1.00	93.30	A16S
ATOM	2954	O3*	G	A	147	95.649	28.719	-6.630	1.00	93.30	A16S
ATOM	2955	P	G	A	148	96.751	28.294	-5.535	1.00	102.86	A16S
ATOM	2956	O1P	G	A	148	97.072	26.860	-5.754	1.00	72.10	A16S
ATOM	2957	O2P	G	A	148	96.307	28.759	-4.190	1.00	72.10	A16S
ATOM	2958	O5*	G	A	148	98.048	29.133	-5.926	1.00	102.86	A16S
ATOM	2959	C5*	G	A	148	98.762	28.862	-7.145	1.00	102.86	A16S
ATOM	2960	C4*	G	A	148	100.049	29.654	-7.195	1.00	102.86	A16S
ATOM	2961	O4*	G	A	148	99.760	31.076	-7.151	1.00	102.86	A16S
ATOM	2962	C1*	G	A	148	100.795	31.752	-6.456	1.00	102.86	A16S
ATOM	2963	N9	G	A	148	100.231	32.384	-5.269	1.00	72.10	A16S
ATOM	2964	C4	G	A	148	100.848	33.326	-4.481	1.00	72.10	A16S
ATOM	2965	N3	G	A	148	102.078	33.846	-4.681	1.00	72.10	A16S
ATOM	2966	C2	G	A	148	102.393	34.738	-3.756	1.00	72.10	A16S
ATOM	2967	N2	G	A	148	103.572	35.368	-3.806	1.00	72.10	A16S
ATOM	2968	N1	G	A	148	101.573	35.081	-2.714	1.00	72.10	A16S
ATOM	2969	C6	G	A	148	100.306	34.553	-2.486	1.00	72.10	A16S
ATOM	2970	O6	G	A	148	99.645	34.928	-1.504	1.00	72.10	A16S
ATOM	2971	C5	G	A	148	99.949	33.606	-3.476	1.00	72.10	A16S
ATOM	2972	N7	G	A	148	98.786	32.865	-3.632	1.00	72.10	A16S
ATOM	2973	C8	G	A	148	98.998	32.154	-4.704	1.00	72.10	A16S
ATOM	2974	C2*	G	A	148	101.843	30.715	-6.069	1.00	102.86	A16S
ATOM	2975	O2*	G	A	148	102.845	30.700	-7.061	1.00	102.86	A16S
ATOM	2976	C3*	G	A	148	101.017	29.438	-6.046	1.00	102.86	A16S
ATOM	2977	O3*	G	A	148	101.818	28.283	-6.230	1.00	102.86	A16S
ATOM	2978	P	A	A	149	102.674	27.708	-4.992	1.00	81.62	A16S
ATOM	2979	O1P	A	A	149	103.094	26.311	-5.343	1.00	68.94	A16S
ATOM	2980	O2P	A	A	149	101.928	27.968	-3.708	1.00	68.94	A16S
ATOM	2981	O5*	A	A	149	103.978	28.623	-4.974	1.00	81.62	A16S
ATOM	2982	C5*	A	A	149	104.737	28.849	-6.171	1.00	81.62	A16S
ATOM	2983	C4*	A	A	149	105.733	29.953	-5.947	1.00	81.62	A16S
ATOM	2984	O4*	A	A	149	105.034	31.161	-5.567	1.00	81.62	A16S
ATOM	2985	C1*	A	A	149	105.793	31.868	-4.606	1.00	81.62	A16S
ATOM	2986	N9	A	A	149	104.957	32.064	-3.421	1.00	68.94	A16S
ATOM	2987	C4	A	A	149	105.179	32.977	-2.422	1.00	68.94	A16S
ATOM	2988	N3	A	A	149	106.220	33.818	-2.307	1.00	68.94	A16S
ATOM	2989	C2	A	A	149	106.081	34.588	-1.231	1.00	68.94	A16S
ATOM	2990	N1	A	A	149	105.096	34.615	-0.333	1.00	68.94	A16S
ATOM	2991	C6	A	A	149	104.068	33.755	-0.476	1.00	68.94	A16S
ATOM	2992	N6	A	A	149	103.081	33.789	0.420	1.00	68.94	A16S
ATOM	2993	C5	A	A	149	104.099	32.876	-1.570	1.00	68.94	A16S
ATOM	2994	N7	A	A	149	103.228	31.885	-1.997	1.00	68.94	A16S
ATOM	2995	C8	A	A	149	103.785	31.428	-3.089	1.00	68.94	A16S
ATOM	2996	C2*	A	A	149	107.093	31.100	-4.369	1.00	81.62	A16S



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ATOM	2997	O2*	A	A 149	108.117	31.657	-5.167	1.00	81.62	A16S
ATOM	2998	C3*	A	A 149	106.706	29.699	-4.816	1.00	81.62	A16S
ATOM	2999	O3*	A	A 149	107.807	28.962	-5.297	1.00	81.62	A16S
ATOM	3000	P	C	A 150	108.692	28.108	-4.273	1.00	66.44	A16S
ATOM	3001	O1P	C	A 150	109.577	27.215	-5.085	1.00	60.12	A16S
ATOM	3002	O2P	C	A 150	107.806	27.510	-3.230	1.00	60.12	A16S
ATOM	3003	O5*	C	A 150	109.582	29.222	-3.567	1.00	66.44	A16S
ATOM	3004	C5*	C	A 150	110.416	30.109	-4.331	1.00	66.44	A16S
ATOM	3005	C4*	C	A 150	110.973	31.164	-3.422	1.00	66.44	A16S
ATOM	3006	O4*	C	A 150	109.897	32.021	-2.966	1.00	66.44	A16S
ATOM	3007	C1*	C	A 150	110.079	32.344	-1.598	1.00	66.44	A16S
ATOM	3008	N1	C	A 150	108.859	31.967	-0.859	1.00	60.12	A16S
ATOM	3009	C6	C	A 150	108.084	30.923	-1.273	1.00	60.12	A16S
ATOM	3010	C2	C	A 150	108.493	32.705	0.265	1.00	60.12	A16S
ATOM	3011	O2	C	A 150	109.221	33.631	0.637	1.00	60.12	A16S
ATOM	3012	N3	C	A 150	107.354	32.393	0.918	1.00	60.12	A16S
ATOM	3013	C4	C	A 150	106.593	31.393	0.488	1.00	60.12	A16S
ATOM	3014	N4	C	A 150	105.462	31.142	1.139	1.00	60.12	A16S
ATOM	3015	C5	C	A 150	106.952	30.608	-0.636	1.00	60.12	A16S
ATOM	3016	C2*	C	A 150	111.364	31.676	-1.116	1.00	66.44	A16S
ATOM	3017	O2*	C	A 150	112.394	32.636	-1.100	1.00	66.44	A16S
ATOM	3018	C3*	C	A 150	111.557	30.575	-2.159	1.00	66.44	A16S
ATOM	3019	O3*	C	A 150	112.906	30.202	-2.384	1.00	66.44	A16S
ATOM	3020	P	A	A 151	113.714	29.447	-1.224	1.00	49.40	A16S
ATOM	3021	O1P	A	A 151	115.105	29.225	-1.702	1.00	77.37	A16S
ATOM	3022	O2P	A	A 151	112.889	28.287	-0.760	1.00	77.37	A16S
ATOM	3023	O5*	A	A 151	113.754	30.551	-0.083	1.00	49.40	A16S
ATOM	3024	C5*	A	A 151	114.211	30.252	1.226	1.00	49.40	A16S
ATOM	3025	C4*	A	A 151	114.279	31.517	2.023	1.00	49.40	A16S
ATOM	3026	O4*	A	A 151	113.018	32.219	1.928	1.00	49.40	A16S
ATOM	3027	C1*	A	A 151	112.756	32.875	3.147	1.00	49.40	A16S
ATOM	3028	N9	A	A 151	111.428	32.492	3.622	1.00	77.37	A16S
ATOM	3029	C4	A	A 151	110.835	32.933	4.783	1.00	77.37	A16S
ATOM	3030	N3	A	A 151	111.367	33.743	5.715	1.00	77.37	A16S
ATOM	3031	C2	A	A 151	110.486	33.992	6.679	1.00	77.37	A16S
ATOM	3032	N1	A	A 151	109.231	33.559	6.809	1.00	77.37	A16S
ATOM	3033	C6	A	A 151	108.727	32.743	5.856	1.00	77.37	A16S
ATOM	3034	N6	A	A 151	107.471	32.315	5.978	1.00	77.37	A16S
ATOM	3035	C5	A	A 151	109.561	32.396	4.783	1.00	77.37	A16S
ATOM	3036	N7	A	A 151	109.363	31.595	3.665	1.00	77.37	A16S
ATOM	3037	C8	A	A 151	110.500	31.676	3.014	1.00	77.37	A16S
ATOM	3038	C2*	A	A 151	113.900	32.568	4.109	1.00	49.40	A16S
ATOM	3039	O2*	A	A 151	114.805	33.636	4.040	1.00	49.40	A16S
ATOM	3040	C3*	A	A 151	114.504	31.314	3.499	1.00	49.40	A16S
ATOM	3041	O3*	A	A 151	115.894	31.218	3.756	1.00	49.40	A16S
ATOM	3042	P	A	A 152	116.430	30.116	4.793	1.00	72.14	A16S
ATOM	3043	O1P	A	A 152	117.867	30.403	5.073	1.00	67.71	A16S
ATOM	3044	O2P	A	A 152	116.036	28.794	4.244	1.00	67.71	A16S
ATOM	3045	O5*	A	A 152	115.576	30.400	6.111	1.00	72.14	A16S
ATOM	3046	C5*	A	A 152	115.621	31.694	6.733	1.00	72.14	A16S
ATOM	3047	C4*	A	A 152	114.536	31.840	7.771	1.00	72.14	A16S
ATOM	3048	O4*	A	A 152	113.228	31.929	7.152	1.00	72.14	A16S
ATOM	3049	C1*	A	A 152	112.250	31.511	8.086	1.00	72.14	A16S
ATOM	3050	N9	A	A 152	111.350	30.543	7.460	1.00	67.71	A16S
ATOM	3051	C4	A	A 152	110.095	30.239	7.931	1.00	67.71	A16S
ATOM	3052	N3	A	A 152	109.480	30.767	9.005	1.00	67.71	A16S
ATOM	3053	C2	A	A 152	108.265	30.229	9.170	1.00	67.71	A16S
ATOM	3054	N1	A	A 152	107.649	29.291	8.443	1.00	67.71	A16S
ATOM	3055	C6	A	A 152	108.298	28.775	7.370	1.00	67.71	A16S
ATOM	3056	N6	A	A 152	107.683	27.828	6.651	1.00	67.71	A16S
ATOM	3057	C5	A	A 152	109.593	29.270	7.080	1.00	67.71	A16S
ATOM	3058	N7	A	A 152	110.511	28.972	6.080	1.00	67.71	A16S
ATOM	3059	C8	A	A 152	111.533	29.755	6.349	1.00	67.71	A16S
ATOM	3060	C2*	A	A 152	112.976	30.946	9.311	1.00	72.14	A16S
ATOM	3061	O2*	A	A 152	112.956	31.896	10.358	1.00	72.14	A16S
ATOM	3062	C3*	A	A 152	114.385	30.714	8.775	1.00	72.14	A16S
ATOM	3063	O3*	A	A 152	115.358	30.775	9.810	1.00	72.14	A16S
ATOM	3064	P	C	A 153	116.221	29.462	10.163	1.00	68.26	A16S
ATOM	3065	O1P	C	A 153	116.863	29.725	11.474	1.00	62.68	A16S
ATOM	3066	O2P	C	A 153	117.065	29.113	8.995	1.00	62.68	A16S
ATOM	3067	O5*	C	A 153	115.128	28.310	10.341	1.00	68.26	A16S
ATOM	3068	C5*	C	A 153	114.302	28.253	11.531	1.00	68.26	A16S
ATOM	3069	C4*	C	A 153	113.281	27.134	11.437	1.00	68.26	A16S
ATOM	3070	O4*	C	A 153	112.306	27.431	10.408	1.00	68.26	A16S
ATOM	3071	C1*	C	A 153	111.947	26.236	9.734	1.00	68.26	A16S
ATOM	3072	N1	C	A 153	112.413	26.348	8.343	1.00	62.68	A16S
ATOM	3073	C6	C	A 153	113.500	27.122	8.033	1.00	62.68	A16S



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ATOM	3074	C2	C	A	153	111.718	25.656	7.330	1.00	62.68	A16S
ATOM	3075	O2	C	A	153	110.744	24.931	7.640	1.00	62.68	A16S
ATOM	3076	N3	C	A	153	112.127	25.796	6.047	1.00	62.68	A16S
ATOM	3077	C4	C	A	153	113.174	26.579	5.761	1.00	62.68	A16S
ATOM	3078	N4	C	A	153	113.517	26.715	4.487	1.00	62.68	A16S
ATOM	3079	C5	C	A	153	113.908	27.265	6.772	1.00	62.68	A16S
ATOM	3080	C2*	C	A	153	112.622	25.072	10.451	1.00	68.26	A16S
ATOM	3081	O2*	C	A	153	111.736	24.539	11.412	1.00	68.26	A16S
ATOM	3082	C3*	C	A	153	113.824	25.765	11.070	1.00	68.26	A16S
ATOM	3083	O3*	C	A	153	114.296	25.065	12.195	1.00	68.26	A16S
ATOM	3084	P	C	A	154	115.413	23.939	11.995	1.00	93.70	A16S
ATOM	3085	O1P	C	A	154	115.669	23.377	13.344	1.00	93.13	A16S
ATOM	3086	O2P	C	A	154	116.538	24.516	11.212	1.00	93.13	A16S
ATOM	3087	O5*	C	A	154	114.687	22.846	11.094	1.00	93.70	A16S
ATOM	3088	C5*	C	A	154	113.690	21.978	11.653	1.00	93.70	A16S
ATOM	3089	C4*	C	A	154	113.311	20.918	10.653	1.00	93.70	A16S
ATOM	3090	O4*	C	A	154	112.631	21.539	9.534	1.00	93.70	A16S
ATOM	3091	C1*	C	A	154	112.970	20.863	8.334	1.00	93.70	A16S
ATOM	3092	N1	C	A	154	113.613	21.821	7.412	1.00	93.13	A16S
ATOM	3093	C6	C	A	154	114.336	22.878	7.891	1.00	93.13	A16S
ATOM	3094	C2	C	A	154	113.482	21.625	6.027	1.00	93.13	A16S
ATOM	3095	O2	C	A	154	112.815	20.666	5.611	1.00	93.13	A16S
ATOM	3096	N3	C	A	154	114.082	22.486	5.180	1.00	93.13	A16S
ATOM	3097	C4	C	A	154	114.786	23.509	5.662	1.00	93.13	A16S
ATOM	3098	N4	C	A	154	115.361	24.332	4.792	1.00	93.13	A16S
ATOM	3099	C5	C	A	154	114.932	23.736	7.059	1.00	93.13	A16S
ATOM	3100	C2*	C	A	154	113.893	19.701	8.698	1.00	93.70	A16S
ATOM	3101	O2*	C	A	154	113.132	18.518	8.828	1.00	93.70	A16S
ATOM	3102	C3*	C	A	154	114.473	20.173	10.022	1.00	93.70	A16S
ATOM	3103	O3*	C	A	154	114.925	19.090	10.817	1.00	93.70	A16S
ATOM	3104	P	C	A	155	116.440	18.578	10.659	1.00	86.09	A16S
ATOM	3105	O1P	C	A	155	116.644	17.489	11.653	1.00	122.29	A16S
ATOM	3106	O2P	C	A	155	117.337	19.767	10.680	1.00	122.29	A16S
ATOM	3107	O5*	C	A	155	116.473	17.955	9.194	1.00	86.09	A16S
ATOM	3108	C5*	C	A	155	115.758	16.750	8.909	1.00	86.09	A16S
ATOM	3109	C4*	C	A	155	116.049	16.280	7.508	1.00	86.09	A16S
ATOM	3110	O4*	C	A	155	115.424	17.169	6.547	1.00	86.09	A16S
ATOM	3111	C1*	C	A	155	116.209	17.215	5.366	1.00	86.09	A16S
ATOM	3112	N1	C	A	155	116.667	18.597	5.145	1.00	122.29	A16S
ATOM	3113	C6	C	A	155	116.751	19.487	6.181	1.00	122.29	A16S
ATOM	3114	C2	C	A	155	117.045	18.983	3.848	1.00	122.29	A16S
ATOM	3115	O2	C	A	155	116.938	18.168	2.919	1.00	122.29	A16S
ATOM	3116	N3	C	A	155	117.518	20.230	3.644	1.00	122.29	A16S
ATOM	3117	C4	C	A	155	117.620	21.079	4.668	1.00	122.29	A16S
ATOM	3118	N4	C	A	155	118.123	22.288	4.425	1.00	122.29	A16S
ATOM	3119	C5	C	A	155	117.219	20.724	5.989	1.00	122.29	A16S
ATOM	3120	C2*	C	A	155	117.407	16.286	5.567	1.00	86.09	A16S
ATOM	3121	O2*	C	A	155	117.137	15.019	5.006	1.00	86.09	A16S
ATOM	3122	C3*	C	A	155	117.508	16.240	7.084	1.00	86.09	A16S
ATOM	3123	O3*	C	A	155	118.200	15.083	7.514	1.00	86.09	A16S
ATOM	3124	P	G	A	156	119.801	15.123	7.613	1.00	95.63	A16S
ATOM	3125	O1P	G	A	156	120.230	13.844	8.234	1.00	112.24	A16S
ATOM	3126	O2P	G	A	156	120.204	16.409	8.227	1.00	112.24	A16S
ATOM	3127	O5*	G	A	156	120.291	15.136	6.101	1.00	95.63	A16S
ATOM	3128	C5*	G	A	156	120.182	13.955	5.302	1.00	95.63	A16S
ATOM	3129	C4*	G	A	156	120.724	14.194	3.915	1.00	95.63	A16S
ATOM	3130	O4*	G	A	156	119.943	15.231	3.262	1.00	95.63	A16S
ATOM	3131	C1*	G	A	156	120.776	15.962	2.374	1.00	95.63	A16S
ATOM	3132	N9	G	A	156	120.851	17.348	2.830	1.00	112.24	A16S
ATOM	3133	C4	G	A	156	121.237	18.426	2.071	1.00	112.24	A16S
ATOM	3134	N3	G	A	156	121.562	18.397	0.761	1.00	112.24	A16S
ATOM	3135	C2	G	A	156	121.916	19.584	0.313	1.00	112.24	A16S
ATOM	3136	N2	G	A	156	122.261	19.730	-0.972	1.00	112.24	A16S
ATOM	3137	N1	G	A	156	121.955	20.714	1.091	1.00	112.24	A16S
ATOM	3138	C6	G	A	156	121.633	20.765	2.444	1.00	112.24	A16S
ATOM	3139	O6	G	A	156	121.721	21.834	3.058	1.00	112.24	A16S
ATOM	3140	C5	G	A	156	121.239	19.498	2.933	1.00	112.24	A16S
ATOM	3141	N7	G	A	156	120.834	19.109	4.203	1.00	112.24	A16S
ATOM	3142	C8	G	A	156	120.606	17.830	4.092	1.00	112.24	A16S
ATOM	3143	C2*	G	A	156	122.170	15.332	2.427	1.00	95.63	A16S
ATOM	3144	O2*	G	A	156	122.341	14.372	1.398	1.00	95.63	A16S
ATOM	3145	C3*	G	A	156	122.157	14.689	3.804	1.00	95.63	A16S
ATOM	3146	O3*	G	A	156	123.133	13.671	3.881	1.00	95.63	A16S
ATOM	3147	P	G	A	157	124.667	14.084	4.105	1.00	93.65	A16S
ATOM	3148	O1P	G	A	157	125.440	12.819	4.126	1.00	137.36	A16S
ATOM	3149	O2P	G	A	157	124.750	15.011	5.258	1.00	137.36	A16S
ATOM	3150	O5*	G	A	157	125.051	14.899	2.788	1.00	93.65	A16S



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ATOM	3151	C5*	G	A	157	125.152	14.214	1.529	1.00	93.65	A16S
ATOM	3152	C4*	G	A	157	125.691	15.124	0.448	1.00	93.65	A16S
ATOM	3153	O4*	G	A	157	124.714	16.136	0.091	1.00	93.65	A16S
ATOM	3154	C1*	G	A	157	125.388	17.284	-0.401	1.00	93.65	A16S
ATOM	3155	N9	G	A	157	125.106	18.412	0.480	1.00137.36		A16S
ATOM	3156	C4	G	A	157	125.392	19.736	0.220	1.00137.36		A16S
ATOM	3157	N3	G	A	157	125.941	20.223	-0.919	1.00137.36		A16S
ATOM	3158	C2	G	A	157	126.133	21.531	-0.859	1.00137.36		A16S
ATOM	3159	N2	G	A	157	126.674	22.172	-1.905	1.00137.36		A16S
ATOM	3160	N1	G	A	157	125.809	22.305	0.234	1.00137.36		A16S
ATOM	3161	C6	G	A	157	125.243	21.830	1.418	1.00137.36		A16S
ATOM	3162	O6	G	A	157	124.998	22.617	2.351	1.00137.36		A16S
ATOM	3163	C5	G	A	157	125.030	20.420	1.363	1.00137.36		A16S
ATOM	3164	N7	G	A	157	124.499	19.550	2.309	1.00137.36		A16S
ATOM	3165	C8	G	A	157	124.557	18.375	1.741	1.00137.36		A16S
ATOM	3166	C2*	G	A	157	126.886	16.982	-0.364	1.00	93.65	A16S
ATOM	3167	O2*	G	A	157	127.312	16.486	-1.617	1.00	93.65	A16S
ATOM	3168	C3*	G	A	157	126.957	15.919	0.720	1.00	93.65	A16S
ATOM	3169	O3*	G	A	157	128.147	15.166	0.593	1.00	93.65	A16S
ATOM	3170	P	G	A	158	129.473	15.662	1.349	1.00133.24		A16S
ATOM	3171	O1P	G	A	158	130.512	14.623	1.153	1.00129.40		A16S
ATOM	3172	O2P	G	A	158	129.099	16.079	2.728	1.00129.40		A16S
ATOM	3173	O5*	G	A	158	129.914	16.956	0.533	1.00133.24		A16S
ATOM	3174	C5*	G	A	158	130.363	16.851	-0.835	1.00133.24		A16S
ATOM	3175	C4*	G	A	158	130.911	18.177	-1.319	1.00133.24		A16S
ATOM	3176	O4*	G	A	158	129.835	19.141	-1.472	1.00133.24		A16S
ATOM	3177	C1*	G	A	158	130.299	20.439	-1.125	1.00133.24		A16S
ATOM	3178	N9	G	A	158	129.522	20.927	0.016	1.00129.40		A16S
ATOM	3179	C4	G	A	158	129.511	22.212	0.521	1.00129.40		A16S
ATOM	3180	N3	G	A	158	130.222	23.261	0.049	1.00129.40		A16S
ATOM	3181	C2	G	A	158	130.014	24.360	0.758	1.00129.40		A16S
ATOM	3182	N2	G	A	158	130.660	25.490	0.437	1.00129.40		A16S
ATOM	3183	N1	G	A	158	129.165	24.430	1.836	1.00129.40		A16S
ATOM	3184	C6	G	A	158	128.420	23.366	2.338	1.00129.40		A16S
ATOM	3185	O6	G	A	158	127.680	23.536	3.315	1.00129.40		A16S
ATOM	3186	C5	G	A	158	128.645	22.176	1.595	1.00129.40		A16S
ATOM	3187	N7	G	A	158	128.122	20.902	1.763	1.00129.40		A16S
ATOM	3188	C8	G	A	158	128.665	20.198	0.807	1.00129.40		A16S
ATOM	3189	C2*	G	A	158	131.789	20.321	-0.799	1.00133.24		A16S
ATOM	3190	O2*	G	A	158	132.569	20.614	-1.943	1.00133.24		A16S
ATOM	3191	C3*	G	A	158	131.899	18.860	-0.390	1.00133.24		A16S
ATOM	3192	O3*	G	A	158	133.220	18.376	-0.528	1.00133.24		A16S
ATOM	3193	P	G	A	159	134.260	18.601	0.670	1.00123.88		A16S
ATOM	3194	O1P	G	A	159	135.572	18.057	0.231	1.00109.97		A16S
ATOM	3195	O2P	G	A	159	133.640	18.116	1.933	1.00109.97		A16S
ATOM	3196	O5*	G	A	159	134.372	20.183	0.778	1.00123.88		A16S
ATOM	3197	C5*	G	A	159	135.115	20.942	-0.191	1.00123.88		A16S
ATOM	3198	C4*	G	A	159	135.472	22.288	0.383	1.00123.88		A16S
ATOM	3199	O4*	G	A	159	134.288	23.118	0.467	1.00123.88		A16S
ATOM	3200	C1*	G	A	159	134.347	23.906	1.642	1.00123.88		A16S
ATOM	3201	N9	G	A	159	133.169	23.609	2.447	1.00109.97		A16S
ATOM	3202	C4	G	A	159	132.602	24.417	3.403	1.00109.97		A16S
ATOM	3203	N3	G	A	159	133.053	25.630	3.787	1.00109.97		A16S
ATOM	3204	C2	G	A	159	132.280	26.173	4.714	1.00109.97		A16S
ATOM	3205	N2	G	A	159	132.578	27.388	5.207	1.00109.97		A16S
ATOM	3206	N1	G	A	159	131.158	25.568	5.225	1.00109.97		A16S
ATOM	3207	C6	G	A	159	130.677	24.320	4.841	1.00109.97		A16S
ATOM	3208	O6	G	A	159	129.646	23.868	5.358	1.00109.97		A16S
ATOM	3209	C5	G	A	159	131.497	23.730	3.851	1.00109.97		A16S
ATOM	3210	N7	G	A	159	131.382	22.509	3.206	1.00109.97		A16S
ATOM	3211	C8	G	A	159	132.397	22.479	2.389	1.00109.97		A16S
ATOM	3212	C2*	G	A	159	135.664	23.601	2.360	1.00123.88		A16S
ATOM	3213	O2*	G	A	159	136.630	24.564	2.002	1.00123.88		A16S
ATOM	3214	C3*	G	A	159	136.017	22.233	1.800	1.00123.88		A16S
ATOM	3215	O3*	G	A	159	137.420	22.035	1.790	1.00123.88		A16S
ATOM	3216	P	A	A	160	138.125	21.313	3.033	1.00	98.11	A16S
ATOM	3217	O1P	A	A	160	139.598	21.386	2.813	1.00135.85		A16S
ATOM	3218	O2P	A	A	160	137.469	19.990	3.215	1.00135.85		A16S
ATOM	3219	O5*	A	A	160	137.757	22.229	4.280	1.00	98.11	A16S
ATOM	3220	C5*	A	A	160	138.158	21.853	5.610	1.00	98.11	A16S
ATOM	3221	C4*	A	A	160	138.642	23.063	6.373	1.00	98.11	A16S
ATOM	3222	O4*	A	A	160	139.854	23.577	5.763	1.00	98.11	A16S
ATOM	3223	C1*	A	A	160	139.878	24.992	5.859	1.00	98.11	A16S
ATOM	3224	N9	A	A	160	139.989	25.552	4.507	1.00135.85		A16S
ATOM	3225	C4	A	A	160	140.313	26.850	4.183	1.00135.85		A16S
ATOM	3226	N3	A	A	160	140.608	27.856	5.026	1.00135.85		A16S
ATOM	3227	C2	A	A	160	140.866	28.974	4.351	1.00135.85		A16S



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ATOM	3228	N1	A	A 160	140.857	29.188	3.030	1.00135.85	A16S
ATOM	3229	C6	A	A 160	140.550	28.160	2.211	1.00135.85	A16S
ATOM	3230	N6	A	A 160	140.526	28.377	0.894	1.00135.85	A16S
ATOM	3231	C5	A	A 160	140.268	26.917	2.800	1.00135.85	A16S
ATOM	3232	N7	A	A 160	139.938	25.682	2.260	1.00135.85	A16S
ATOM	3233	C8	A	A 160	139.785	24.910	3.308	1.00135.85	A16S
ATOM	3234	C2*	A	A 160	138.618	25.429	6.613	1.00 98.11	A16S
ATOM	3235	O2*	A	A 160	138.921	25.631	7.981	1.00 98.11	A16S
ATOM	3236	C3*	A	A 160	137.688	24.243	6.381	1.00 98.11	A16S
ATOM	3237	O3*	A	A 160	136.694	24.105	7.387	1.00 98.11	A16S
ATOM	3238	P	A	A 161	135.194	24.598	7.088	1.00122.05	A16S
ATOM	3239	O1P	A	A 161	134.356	24.242	8.270	1.00 90.82	A16S
ATOM	3240	O2P	A	A 161	134.808	24.098	5.736	1.00 90.82	A16S
ATOM	3241	O5*	A	A 161	135.333	26.187	7.016	1.00122.05	A16S
ATOM	3242	C5*	A	A 161	135.930	26.935	8.106	1.00122.05	A16S
ATOM	3243	C4*	A	A 161	136.380	28.302	7.631	1.00122.05	A16S
ATOM	3244	O4*	A	A 161	137.384	28.143	6.601	1.00122.05	A16S
ATOM	3245	C1*	A	A 161	137.230	29.150	5.620	1.00122.05	A16S
ATOM	3246	N9	A	A 161	136.921	28.493	4.356	1.00 90.82	A16S
ATOM	3247	C4	A	A 161	137.063	29.014	3.093	1.00 90.82	A16S
ATOM	3248	N3	A	A 161	137.505	30.235	2.760	1.00 90.82	A16S
ATOM	3249	C2	A	A 161	137.514	30.383	1.438	1.00 90.82	A16S
ATOM	3250	N1	A	A 161	137.160	29.515	0.482	1.00 90.82	A16S
ATOM	3251	C6	A	A 161	136.717	28.297	0.851	1.00 90.82	A16S
ATOM	3252	N6	A	A 161	136.358	27.432	-0.103	1.00 90.82	A16S
ATOM	3253	C5	A	A 161	136.658	28.016	2.227	1.00 90.82	A16S
ATOM	3254	N7	A	A 161	136.256	26.892	2.932	1.00 90.82	A16S
ATOM	3255	C8	A	A 161	136.430	27.226	4.185	1.00 90.82	A16S
ATOM	3256	C2*	A	A 161	136.115	30.086	6.079	1.00122.05	A16S
ATOM	3257	O2*	A	A 161	136.700	31.168	6.771	1.00122.05	A16S
ATOM	3258	C3*	A	A 161	135.311	29.182	7.001	1.00122.05	A16S
ATOM	3259	O3*	A	A 161	134.643	29.944	7.994	1.00122.05	A16S
ATOM	3260	P	A	A 162	133.175	30.519	7.701	1.00112.74	A16S
ATOM	3261	O1P	A	A 162	132.737	31.249	8.930	1.00105.40	A16S
ATOM	3262	O2P	A	A 162	132.347	29.410	7.166	1.00105.40	A16S
ATOM	3263	O5*	A	A 162	133.388	31.561	6.516	1.00112.74	A16S
ATOM	3264	C5*	A	A 162	133.792	32.922	6.775	1.00112.74	A16S
ATOM	3265	C4*	A	A 162	133.772	33.718	5.491	1.00112.74	A16S
ATOM	3266	O4*	A	A 162	134.703	33.108	4.560	1.00112.74	A16S
ATOM	3267	C1*	A	A 162	134.137	33.074	3.264	1.00112.74	A16S
ATOM	3268	N9	A	A 162	133.913	31.668	2.913	1.00105.40	A16S
ATOM	3269	C4	A	A 162	133.954	31.116	1.653	1.00105.40	A16S
ATOM	3270	N3	A	A 162	134.245	31.739	0.497	1.00105.40	A16S
ATOM	3271	C2	A	A 162	134.163	30.890	-0.528	1.00105.40	A16S
ATOM	3272	N1	A	A 162	133.843	29.589	-0.530	1.00105.40	A16S
ATOM	3273	C6	A	A 162	133.551	28.995	0.647	1.00105.40	A16S
ATOM	3274	N6	A	A 162	133.219	27.702	0.641	1.00105.40	A16S
ATOM	3275	C5	A	A 162	133.612	29.785	1.814	1.00105.40	A16S
ATOM	3276	N7	A	A 162	133.387	29.495	3.152	1.00105.40	A16S
ATOM	3277	C8	A	A 162	133.585	30.637	3.760	1.00105.40	A16S
ATOM	3278	C2*	A	A 162	132.821	33.857	3.318	1.00112.74	A16S
ATOM	3279	O2*	A	A 162	133.008	35.209	2.955	1.00112.74	A16S
ATOM	3280	C3*	A	A 162	132.431	33.693	4.776	1.00112.74	A16S
ATOM	3281	O3*	A	A 162	131.549	34.709	5.234	1.00112.74	A16S
ATOM	3282	P	C	A 163	130.066	34.311	5.711	1.00 90.32	A16S
ATOM	3283	O1P	C	A 163	129.315	35.575	5.909	1.00127.62	A16S
ATOM	3284	O2P	C	A 163	130.205	33.360	6.842	1.00127.62	A16S
ATOM	3285	O5*	C	A 163	129.443	33.540	4.458	1.00 90.32	A16S
ATOM	3286	C5*	C	A 163	129.561	34.098	3.139	1.00 90.32	A16S
ATOM	3287	C4*	C	A 163	129.817	33.020	2.106	1.00 90.32	A16S
ATOM	3288	O4*	C	A 163	130.693	31.991	2.648	1.00 90.32	A16S
ATOM	3289	C1*	C	A 163	130.414	30.746	2.017	1.00 90.32	A16S
ATOM	3290	N1	C	A 163	129.982	29.753	3.025	1.00127.62	A16S
ATOM	3291	C6	C	A 163	129.696	30.121	4.311	1.00127.62	A16S
ATOM	3292	C2	C	A 163	129.841	28.410	2.627	1.00127.62	A16S
ATOM	3293	O2	C	A 163	130.134	28.091	1.466	1.00127.62	A16S
ATOM	3294	N3	C	A 163	129.392	27.499	3.519	1.00127.62	A16S
ATOM	3295	C4	C	A 163	129.097	27.874	4.764	1.00127.62	A16S
ATOM	3296	N4	C	A 163	128.642	26.943	5.606	1.00127.62	A16S
ATOM	3297	C5	C	A 163	129.254	29.223	5.204	1.00127.62	A16S
ATOM	3298	C2*	C	A 163	129.292	30.990	1.012	1.00 90.32	A16S
ATOM	3299	O2*	C	A 163	129.863	31.234	-0.257	1.00 90.32	A16S
ATOM	3300	C3*	C	A 163	128.625	32.230	1.591	1.00 90.32	A16S
ATOM	3301	O3*	C	A 163	127.902	32.916	0.586	1.00 90.32	A16S
ATOM	3302	P	U	A 164	126.428	32.415	0.202	1.00 82.68	A16S
ATOM	3303	O1P	U	A 164	125.873	33.353	-0.807	1.00104.20	A16S
ATOM	3304	O2P	U	A 164	125.688	32.158	1.463	1.00104.20	A16S



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ATOM	3305	O5*	U	A	164	126.658	31.012	-0.508	1.00	82.68	A16S
ATOM	3306	C5*	U	A	164	127.445	30.915	-1.700	1.00	82.68	A16S
ATOM	3307	C4*	U	A	164	127.522	29.481	-2.154	1.00	82.68	A16S
ATOM	3308	O4*	U	A	164	128.098	28.672	-1.098	1.00	82.68	A16S
ATOM	3309	C1*	U	A	164	127.487	27.392	-1.091	1.00	82.68	A16S
ATOM	3310	N1	U	A	164	126.923	27.141	0.246	1.00	104.20	A16S
ATOM	3311	C6	U	A	164	126.903	28.120	1.212	1.00	104.20	A16S
ATOM	3312	C2	U	A	164	126.425	25.874	0.510	1.00	104.20	A16S
ATOM	3313	O2	U	A	164	126.397	24.983	-0.318	1.00	104.20	A16S
ATOM	3314	N3	U	A	164	125.958	25.690	1.783	1.00	104.20	A16S
ATOM	3315	C4	U	A	164	125.931	26.617	2.797	1.00	104.20	A16S
ATOM	3316	O4	U	A	164	125.517	26.282	3.908	1.00	104.20	A16S
ATOM	3317	C5	U	A	164	126.439	27.906	2.443	1.00	104.20	A16S
ATOM	3318	C2*	U	A	164	126.469	27.344	-2.230	1.00	82.68	A16S
ATOM	3319	O2*	U	A	164	127.073	26.715	-3.344	1.00	82.68	A16S
ATOM	3320	C3*	U	A	164	126.183	28.826	-2.451	1.00	82.68	A16S
ATOM	3321	O3*	U	A	164	125.765	29.120	-3.780	1.00	82.68	A16S
ATOM	3322	P	C	A	165	124.199	29.088	-4.149	1.00	81.22	A16S
ATOM	3323	O1P	C	A	165	124.047	29.786	-5.459	1.00	99.67	A16S
ATOM	3324	O2P	C	A	165	123.394	29.542	-2.970	1.00	99.67	A16S
ATOM	3325	O5*	C	A	165	123.927	27.541	-4.403	1.00	81.22	A16S
ATOM	3326	C5*	C	A	165	124.636	26.846	-5.447	1.00	81.22	A16S
ATOM	3327	C4*	C	A	165	124.304	25.380	-5.417	1.00	81.22	A16S
ATOM	3328	O4*	C	A	165	124.919	24.743	-4.271	1.00	81.22	A16S
ATOM	3329	C1*	C	A	165	124.068	23.723	-3.789	1.00	81.22	A16S
ATOM	3330	N1	C	A	165	123.707	24.020	-2.400	1.00	99.67	A16S
ATOM	3331	C6	C	A	165	123.782	25.289	-1.897	1.00	99.67	A16S
ATOM	3332	C2	C	A	165	123.268	22.969	-1.597	1.00	99.67	A16S
ATOM	3333	O2	C	A	165	123.200	21.828	-2.088	1.00	99.67	A16S
ATOM	3334	N3	C	A	165	122.922	23.216	-0.314	1.00	99.67	A16S
ATOM	3335	C4	C	A	165	122.995	24.457	0.167	1.00	99.67	A16S
ATOM	3336	N4	C	A	165	122.637	24.653	1.436	1.00	99.67	A16S
ATOM	3337	C5	C	A	165	123.436	25.551	-0.633	1.00	99.67	A16S
ATOM	3338	C2*	C	A	165	122.832	23.678	-4.680	1.00	81.22	A16S
ATOM	3339	O2*	C	A	165	123.016	22.673	-5.646	1.00	81.22	A16S
ATOM	3340	C3*	C	A	165	122.831	25.077	-5.270	1.00	81.22	A16S
ATOM	3341	O3*	C	A	165	122.177	25.147	-6.508	1.00	81.22	A16S
ATOM	3342	P	G	A	166	120.587	25.289	-6.536	1.00	86.91	A16S
ATOM	3343	O1P	G	A	166	120.198	25.429	-7.965	1.00	102.85	A16S
ATOM	3344	O2P	G	A	166	120.175	26.330	-5.553	1.00	102.85	A16S
ATOM	3345	O5*	G	A	166	120.095	23.871	-6.004	1.00	86.91	A16S
ATOM	3346	C5*	G	A	166	120.370	22.686	-6.765	1.00	86.91	A16S
ATOM	3347	C4*	G	A	166	119.887	21.452	-6.042	1.00	86.91	A16S
ATOM	3348	O4*	G	A	166	120.690	21.190	-4.866	1.00	86.91	A16S
ATOM	3349	C1*	G	A	166	119.890	20.553	-3.884	1.00	86.91	A16S
ATOM	3350	N9	G	A	166	119.876	21.395	-2.695	1.00	102.85	A16S
ATOM	3351	C4	G	A	166	119.464	21.026	-1.440	1.00	102.85	A16S
ATOM	3352	N3	G	A	166	119.005	19.808	-1.081	1.00	102.85	A16S
ATOM	3353	C2	G	A	166	118.680	19.760	0.200	1.00	102.85	A16S
ATOM	3354	N2	G	A	166	118.207	18.622	0.728	1.00	102.85	A16S
ATOM	3355	N1	G	A	166	118.798	20.824	1.057	1.00	102.85	A16S
ATOM	3356	C6	G	A	166	119.271	22.084	0.707	1.00	102.85	A16S
ATOM	3357	O6	G	A	166	119.347	22.973	1.559	1.00	102.85	A16S
ATOM	3358	C5	G	A	166	119.618	22.148	-0.662	1.00	102.85	A16S
ATOM	3359	N7	G	A	166	120.115	23.203	-1.412	1.00	102.85	A16S
ATOM	3360	C8	G	A	166	120.255	22.710	-2.609	1.00	102.85	A16S
ATOM	3361	C2*	G	A	166	118.484	20.391	-4.462	1.00	86.91	A16S
ATOM	3362	O2*	G	A	166	118.332	19.106	-5.027	1.00	86.91	A16S
ATOM	3363	C3*	G	A	166	118.468	21.478	-5.522	1.00	86.91	A16S
ATOM	3364	O3*	G	A	166	117.533	21.195	-6.526	1.00	86.91	A16S
ATOM	3365	P	G	A	167	116.025	21.680	-6.332	1.00	76.23	A16S
ATOM	3366	O1P	G	A	167	115.324	21.377	-7.612	1.00	106.40	A16S
ATOM	3367	O2P	G	A	167	116.043	23.075	-5.817	1.00	106.40	A16S
ATOM	3368	O5*	G	A	167	115.486	20.755	-5.149	1.00	76.23	A16S
ATOM	3369	C5*	G	A	167	115.328	19.338	-5.335	1.00	76.23	A16S
ATOM	3370	C4*	G	A	167	114.758	18.701	-4.092	1.00	76.23	A16S
ATOM	3371	O4*	G	A	167	115.739	18.749	-3.028	1.00	76.23	A16S
ATOM	3372	C1*	G	A	167	115.083	18.897	-1.780	1.00	76.23	A16S
ATOM	3373	N9	G	A	167	115.542	20.134	-1.164	1.00	106.40	A16S
ATOM	3374	C4	G	A	167	115.315	20.537	0.130	1.00	106.40	A16S
ATOM	3375	N3	G	A	167	114.682	19.826	1.086	1.00	106.40	A16S
ATOM	3376	C2	G	A	167	114.588	20.501	2.220	1.00	106.40	A16S
ATOM	3377	N2	G	A	167	114.008	19.942	3.285	1.00	106.40	A16S
ATOM	3378	N1	G	A	167	115.057	21.776	2.395	1.00	106.40	A16S
ATOM	3379	C6	G	A	167	115.696	22.533	1.419	1.00	106.40	A16S
ATOM	3380	O6	G	A	167	116.043	23.699	1.663	1.00	106.40	A16S
ATOM	3381	C5	G	A	167	115.835	21.809	0.209	1.00	106.40	A16S



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ATOM	3382	N7	G	A	167	116.427	22.175	-0.992	1.00106.40	A16S
ATOM	3383	C8	G	A	167	116.237	21.149	-1.772	1.00106.40	A16S
ATOM	3384	C2*	G	A	167	113.576	18.945	-2.046	1.00 76.23	A16S
ATOM	3385	O2*	G	A	167	113.019	17.670	-1.815	1.00 76.23	A16S
ATOM	3386	C3*	G	A	167	113.527	19.366	-3.508	1.00 76.23	A16S
ATOM	3387	O3*	G	A	167	112.341	18.935	-4.147	1.00 76.23	A16S
ATOM	3388	P	G	A	168	111.032	19.864	-4.086	1.00 72.81	A16S
ATOM	3389	O1P	G	A	168	109.994	19.235	-4.942	1.00 89.59	A16S
ATOM	3390	O2P	G	A	168	111.436	21.274	-4.348	1.00 89.59	A16S
ATOM	3391	O5*	G	A	168	110.573	19.774	-2.561	1.00 72.81	A16S
ATOM	3392	C5*	G	A	168	110.033	18.554	-2.020	1.00 72.81	A16S
ATOM	3393	C4*	G	A	168	109.614	18.742	-0.576	1.00 72.81	A16S
ATOM	3394	O4*	G	A	168	110.773	18.949	0.279	1.00 72.81	A16S
ATOM	3395	C1*	G	A	168	110.418	19.785	1.374	1.00 72.81	A16S
ATOM	3396	N9	G	A	168	111.267	20.976	1.357	1.00 89.59	A16S
ATOM	3397	C4	G	A	168	111.393	21.922	2.365	1.00 89.59	A16S
ATOM	3398	N3	G	A	168	110.794	21.891	3.578	1.00 89.59	A16S
ATOM	3399	C2	G	A	168	111.084	22.964	4.303	1.00 89.59	A16S
ATOM	3400	N2	G	A	168	110.585	23.099	5.535	1.00 89.59	A16S
ATOM	3401	N1	G	A	168	111.886	23.981	3.872	1.00 89.59	A16S
ATOM	3402	C6	G	A	168	112.508	24.036	2.634	1.00 89.59	A16S
ATOM	3403	O6	G	A	168	113.199	25.006	2.343	1.00 89.59	A16S
ATOM	3404	C5	G	A	168	112.222	22.893	1.848	1.00 89.59	A16S
ATOM	3405	N7	G	A	168	112.645	22.553	0.567	1.00 89.59	A16S
ATOM	3406	C8	G	A	168	112.063	21.409	0.322	1.00 89.59	A16S
ATOM	3407	C2*	G	A	168	108.938	20.143	1.210	1.00 72.81	A16S
ATOM	3408	O2*	G	A	168	108.141	19.285	1.996	1.00 72.81	A16S
ATOM	3409	C3*	G	A	168	108.723	19.927	-0.280	1.00 72.81	A16S
ATOM	3410	O3*	G	A	168	107.373	19.666	-0.578	1.00 72.81	A16S
ATOM	3411	P	C	A	169	106.387	20.897	-0.873	1.00 64.56	A16S
ATOM	3412	O1P	C	A	169	105.085	20.345	-1.337	1.00 87.00	A16S
ATOM	3413	O2P	C	A	169	107.134	21.852	-1.736	1.00 87.00	A16S
ATOM	3414	O5*	C	A	169	106.169	21.575	0.554	1.00 64.56	A16S
ATOM	3415	C5*	C	A	169	105.638	20.809	1.641	1.00 64.56	A16S
ATOM	3416	C4*	C	A	169	105.448	21.669	2.861	1.00 64.56	A16S
ATOM	3417	O4*	C	A	169	106.712	21.982	3.498	1.00 64.56	A16S
ATOM	3418	C1*	C	A	169	106.547	23.148	4.289	1.00 64.56	A16S
ATOM	3419	N1	C	A	169	107.652	24.109	4.064	1.00 87.00	A16S
ATOM	3420	C6	C	A	169	108.302	24.194	2.865	1.00 87.00	A16S
ATOM	3421	C2	C	A	169	108.016	24.963	5.124	1.00 87.00	A16S
ATOM	3422	O2	C	A	169	107.413	24.874	6.212	1.00 87.00	A16S
ATOM	3423	N3	C	A	169	109.004	25.860	4.940	1.00 87.00	A16S
ATOM	3424	C4	C	A	169	109.624	25.936	3.770	1.00 87.00	A16S
ATOM	3425	N4	C	A	169	110.589	26.841	3.645	1.00 87.00	A16S
ATOM	3426	C5	C	A	169	109.282	25.087	2.676	1.00 87.00	A16S
ATOM	3427	C2*	C	A	169	105.181	23.743	3.954	1.00 64.56	A16S
ATOM	3428	O2*	C	A	169	104.291	23.410	4.996	1.00 64.56	A16S
ATOM	3429	C3*	C	A	169	104.829	23.032	2.654	1.00 64.56	A16S
ATOM	3430	O3*	C	A	169	103.430	22.986	2.486	1.00 64.56	A16S
ATOM	3431	P	U	A	170	102.698	24.208	1.750	1.00 56.70	A16S
ATOM	3432	O1P	U	A	170	101.231	23.952	1.668	1.00 63.55	A16S
ATOM	3433	O2P	U	A	170	103.473	24.429	0.503	1.00 63.55	A16S
ATOM	3434	O5*	U	A	170	102.948	25.444	2.728	1.00 56.70	A16S
ATOM	3435	C5*	U	A	170	102.297	25.510	4.000	1.00 56.70	A16S
ATOM	3436	C4*	U	A	170	102.634	26.803	4.708	1.00 56.70	A16S
ATOM	3437	O4*	U	A	170	104.051	26.860	5.015	1.00 56.70	A16S
ATOM	3438	C1*	U	A	170	104.493	28.202	4.961	1.00 56.70	A16S
ATOM	3439	N1	U	A	170	105.566	28.283	3.962	1.00 63.55	A16S
ATOM	3440	C6	U	A	170	105.566	27.482	2.838	1.00 63.55	A16S
ATOM	3441	C2	U	A	170	106.588	29.185	4.192	1.00 63.55	A16S
ATOM	3442	O2	U	A	170	106.595	29.943	5.149	1.00 63.55	A16S
ATOM	3443	N3	U	A	170	107.593	29.176	3.251	1.00 63.55	A16S
ATOM	3444	C4	U	A	170	107.664	28.389	2.116	1.00 63.55	A16S
ATOM	3445	O4	U	A	170	108.634	28.492	1.366	1.00 63.55	A16S
ATOM	3446	C5	U	A	170	106.553	27.506	1.932	1.00 63.55	A16S
ATOM	3447	C2*	U	A	170	103.286	29.086	4.634	1.00 56.70	A16S
ATOM	3448	O2*	U	A	170	102.745	29.609	5.830	1.00 56.70	A16S
ATOM	3449	C3*	U	A	170	102.344	28.094	3.964	1.00 56.70	A16S
ATOM	3450	O3*	U	A	170	100.981	28.470	4.111	1.00 56.70	A16S
ATOM	3451	P	A	A	171	100.381	29.655	3.203	1.00 64.04	A16S
ATOM	3452	O1P	A	A	171	98.904	29.493	3.108	1.00 69.75	A16S
ATOM	3453	O2P	A	A	171	101.179	29.736	1.953	1.00 69.75	A16S
ATOM	3454	O5*	A	A	171	100.707	30.941	4.081	1.00 64.04	A16S
ATOM	3455	C5*	A	A	171	100.310	31.000	5.461	1.00 64.04	A16S
ATOM	3456	C4*	A	A	171	100.601	32.366	6.037	1.00 64.04	A16S
ATOM	3457	O4*	A	A	171	101.991	32.487	6.432	1.00 64.04	A16S
ATOM	3458	C1*	A	A	171	102.415	33.826	6.257	1.00 64.04	A16S



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ATOM	3459	N9	A	A 171	103.542	33.826	5.317	1.00	69.75	A16S
ATOM	3460	C4	A	A 171	104.662	34.627	5.372	1.00	69.75	A16S
ATOM	3461	N3	A	A 171	104.936	35.592	6.266	1.00	69.75	A16S
ATOM	3462	C2	A	A 171	106.128	36.123	6.030	1.00	69.75	A16S
ATOM	3463	N1	A	A 171	107.013	35.823	5.080	1.00	69.75	A16S
ATOM	3464	C6	A	A 171	106.710	34.853	4.196	1.00	69.75	A16S
ATOM	3465	N6	A	A 171	107.603	34.549	3.255	1.00	69.75	A16S
ATOM	3466	C5	A	A 171	105.470	34.216	4.327	1.00	69.75	A16S
ATOM	3467	N7	A	A 171	104.860	33.204	3.601	1.00	69.75	A16S
ATOM	3468	C8	A	A 171	103.721	33.013	4.220	1.00	69.75	A16S
ATOM	3469	C2*	A	A 171	101.199	34.629	5.786	1.00	64.04	A16S
ATOM	3470	O2*	A	A 171	100.521	35.138	6.921	1.00	64.04	A16S
ATOM	3471	C3*	A	A 171	100.365	33.551	5.124	1.00	64.04	A16S
ATOM	3472	O3*	A	A 171	99.004	33.893	5.073	1.00	64.04	A16S
ATOM	3473	P	A	A 172	98.437	34.670	3.790	1.00	67.65	A16S
ATOM	3474	O1P	A	A 172	96.952	34.774	3.951	1.00	49.52	A16S
ATOM	3475	O2P	A	A 172	98.990	34.061	2.543	1.00	49.52	A16S
ATOM	3476	O5*	A	A 172	99.070	36.114	3.979	1.00	67.65	A16S
ATOM	3477	C5*	A	A 172	98.718	36.895	5.121	1.00	67.65	A16S
ATOM	3478	C4*	A	A 172	99.553	38.139	5.183	1.00	67.65	A16S
ATOM	3479	O4*	A	A 172	100.933	37.780	5.417	1.00	67.65	A16S
ATOM	3480	C1*	A	A 172	101.775	38.704	4.762	1.00	67.65	A16S
ATOM	3481	N9	A	A 172	102.583	37.970	3.791	1.00	49.52	A16S
ATOM	3482	C4	A	A 172	103.910	38.181	3.522	1.00	49.52	A16S
ATOM	3483	N3	A	A 172	104.713	39.100	4.076	1.00	49.52	A16S
ATOM	3484	C2	A	A 172	105.935	38.999	3.590	1.00	49.52	A16S
ATOM	3485	N1	A	A 172	106.410	38.150	2.679	1.00	49.52	A16S
ATOM	3486	C6	A	A 172	105.569	37.244	2.137	1.00	49.52	A16S
ATOM	3487	N6	A	A 172	106.040	36.402	1.216	1.00	49.52	A16S
ATOM	3488	C5	A	A 172	104.254	37.246	2.572	1.00	49.52	A16S
ATOM	3489	N7	A	A 172	103.167	36.462	2.237	1.00	49.52	A16S
ATOM	3490	C8	A	A 172	102.199	36.937	2.981	1.00	49.52	A16S
ATOM	3491	C2*	A	A 172	100.884	39.768	4.123	1.00	67.65	A16S
ATOM	3492	O2*	A	A 172	100.700	40.828	5.047	1.00	67.65	A16S
ATOM	3493	C3*	A	A 172	99.590	39.002	3.935	1.00	67.65	A16S
ATOM	3494	O3*	A	A 172	98.483	39.888	3.876	1.00	67.65	A16S
ATOM	3495	P	U	A 173	98.154	40.655	2.503	1.00	64.79	A16S
ATOM	3496	O1P	U	A 173	98.956	40.008	1.422	1.00	65.87	A16S
ATOM	3497	O2P	U	A 173	96.674	40.738	2.356	1.00	65.87	A16S
ATOM	3498	O5*	U	A 173	98.738	42.122	2.756	1.00	64.79	A16S
ATOM	3499	C5*	U	A 173	98.605	43.134	1.740	1.00	64.79	A16S
ATOM	3500	C4*	U	A 173	99.724	44.162	1.804	1.00	64.79	A16S
ATOM	3501	O4*	U	A 173	99.469	45.204	2.786	1.00	64.79	A16S
ATOM	3502	C1*	U	A 173	100.670	45.485	3.460	1.00	64.79	A16S
ATOM	3503	N1	U	A 173	100.374	46.094	4.765	1.00	65.87	A16S
ATOM	3504	C6	U	A 173	99.301	45.702	5.518	1.00	65.87	A16S
ATOM	3505	C2	U	A 173	101.219	47.101	5.205	1.00	65.87	A16S
ATOM	3506	O2	U	A 173	102.200	47.466	4.591	1.00	65.87	A16S
ATOM	3507	N3	U	A 173	100.879	47.665	6.401	1.00	65.87	A16S
ATOM	3508	C4	U	A 173	99.817	47.329	7.198	1.00	65.87	A16S
ATOM	3509	O4	U	A 173	99.658	47.918	8.269	1.00	65.87	A16S
ATOM	3510	C5	U	A 173	99.000	46.268	6.689	1.00	65.87	A16S
ATOM	3511	C2*	U	A 173	101.451	44.172	3.441	1.00	64.79	A16S
ATOM	3512	O2*	U	A 173	102.817	44.399	3.723	1.00	64.79	A16S
ATOM	3513	C3*	U	A 173	101.158	43.687	2.017	1.00	64.79	A16S
ATOM	3514	O3*	U	A 173	101.991	44.406	1.104	1.00	64.79	A16S
ATOM	3515	P	C	A 174	102.104	43.933	-0.433	1.00	57.67	A16S
ATOM	3516	O1P	C	A 174	102.652	45.079	-1.208	1.00	69.98	A16S
ATOM	3517	O2P	C	A 174	100.815	43.329	-0.854	1.00	69.98	A16S
ATOM	3518	O5*	C	A 174	103.194	42.770	-0.380	1.00	57.67	A16S
ATOM	3519	C5*	C	A 174	104.587	43.041	-0.069	1.00	57.67	A16S
ATOM	3520	C4*	C	A 174	105.466	42.005	-0.725	1.00	57.67	A16S
ATOM	3521	O4*	C	A 174	105.337	40.747	-0.021	1.00	57.67	A16S
ATOM	3522	C1*	C	A 174	105.244	39.674	-0.947	1.00	57.67	A16S
ATOM	3523	N1	C	A 174	103.941	38.992	-0.754	1.00	69.98	A16S
ATOM	3524	C6	C	A 174	103.068	39.417	0.209	1.00	69.98	A16S
ATOM	3525	C2	C	A 174	103.606	37.898	-1.573	1.00	69.98	A16S
ATOM	3526	O2	C	A 174	104.400	37.533	-2.453	1.00	69.98	A16S
ATOM	3527	N3	C	A 174	102.424	37.274	-1.387	1.00	69.98	A16S
ATOM	3528	C4	C	A 174	101.587	37.699	-0.440	1.00	69.98	A16S
ATOM	3529	N4	C	A 174	100.438	37.046	-0.284	1.00	69.98	A16S
ATOM	3530	C5	C	A 174	101.892	38.810	0.394	1.00	69.98	A16S
ATOM	3531	C2*	C	A 174	105.443	40.251	-2.348	1.00	57.67	A16S
ATOM	3532	O2*	C	A 174	106.792	40.077	-2.726	1.00	57.67	A16S
ATOM	3533	C3*	C	A 174	105.030	41.703	-2.146	1.00	57.67	A16S
ATOM	3534	O3*	C	A 174	105.608	42.614	-3.064	1.00	57.67	A16S
ATOM	3535	P	C	A 175	104.709	43.210	-4.251	1.00	65.10	A16S



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ATOM	3536	O1P	C	A	175	105.516	44.239	-4.934	1.00	74.56	A16S
ATOM	3537	O2P	C	A	175	103.372	43.574	-3.717	1.00	74.56	A16S
ATOM	3538	O5*	C	A	175	104.549	41.967	-5.229	1.00	65.10	A16S
ATOM	3539	C5*	C	A	175	105.697	41.404	-5.873	1.00	65.10	A16S
ATOM	3540	C4*	C	A	175	105.290	40.243	-6.732	1.00	65.10	A16S
ATOM	3541	O4*	C	A	175	104.951	39.112	-5.892	1.00	65.10	A16S
ATOM	3542	C1*	C	A	175	103.875	38.392	-6.478	1.00	65.10	A16S
ATOM	3543	N1	C	A	175	102.728	38.404	-5.555	1.00	74.56	A16S
ATOM	3544	C6	C	A	175	102.615	39.361	-4.585	1.00	74.56	A16S
ATOM	3545	C2	C	A	175	101.737	37.419	-5.697	1.00	74.56	A16S
ATOM	3546	O2	C	A	175	101.856	36.561	-6.593	1.00	74.56	A16S
ATOM	3547	N3	C	A	175	100.676	37.431	-4.865	1.00	74.56	A16S
ATOM	3548	C4	C	A	175	100.574	38.375	-3.930	1.00	74.56	A16S
ATOM	3549	N4	C	A	175	99.505	38.358	-3.144	1.00	74.56	A16S
ATOM	3550	C5	C	A	175	101.566	39.383	-3.763	1.00	74.56	A16S
ATOM	3551	C2*	C	A	175	103.517	39.076	-7.795	1.00	65.10	A16S
ATOM	3552	O2*	C	A	175	104.161	38.442	-8.879	1.00	65.10	A16S
ATOM	3553	C3*	C	A	175	104.042	40.479	-7.559	1.00	65.10	A16S
ATOM	3554	O3*	C	A	175	104.280	41.144	-8.774	1.00	65.10	A16S
ATOM	3555	P	C	A	176	103.054	41.868	-9.505	1.00	64.61	A16S
ATOM	3556	O1P	C	A	176	103.617	42.632	-10.640	1.00	76.50	A16S
ATOM	3557	O2P	C	A	176	102.237	42.572	-8.473	1.00	76.50	A16S
ATOM	3558	O5*	C	A	176	102.193	40.667	-10.105	1.00	64.61	A16S
ATOM	3559	C5*	C	A	176	102.737	39.822	-11.132	1.00	64.61	A16S
ATOM	3560	C4*	C	A	176	101.762	38.726	-11.503	1.00	64.61	A16S
ATOM	3561	O4*	C	A	176	101.507	37.879	-10.355	1.00	64.61	A16S
ATOM	3562	C1*	C	A	176	100.189	37.373	-10.422	1.00	64.61	A16S
ATOM	3563	N1	C	A	176	99.451	37.814	-9.229	1.00	76.50	A16S
ATOM	3564	C6	C	A	176	100.036	38.619	-8.295	1.00	76.50	A16S
ATOM	3565	C2	C	A	176	98.124	37.394	-9.067	1.00	76.50	A16S
ATOM	3566	O2	C	A	176	97.613	36.645	-9.927	1.00	76.50	A16S
ATOM	3567	N3	C	A	176	97.432	37.807	-7.985	1.00	76.50	A16S
ATOM	3568	C4	C	A	176	98.013	38.594	-7.087	1.00	76.50	A16S
ATOM	3569	N4	C	A	176	97.294	38.977	-6.046	1.00	76.50	A16S
ATOM	3570	C5	C	A	176	99.361	39.026	-7.220	1.00	76.50	A16S
ATOM	3571	C2*	C	A	176	99.557	37.897	-11.708	1.00	64.61	A16S
ATOM	3572	O2*	C	A	176	99.740	36.923	-12.706	1.00	64.61	A16S
ATOM	3573	C3*	C	A	176	100.383	39.145	-11.977	1.00	64.61	A16S
ATOM	3574	O3*	C	A	176	100.392	39.438	-13.359	1.00	64.61	A16S
ATOM	3575	P	C	A	177	99.106	40.117	-14.033	1.00	70.36	A16S
ATOM	3576	O1P	C	A	177	99.374	40.083	-15.488	1.00	73.21	A16S
ATOM	3577	O2P	C	A	177	98.795	41.399	-13.370	1.00	73.21	A16S
ATOM	3578	O5*	C	A	177	97.921	39.100	-13.744	1.00	70.36	A16S
ATOM	3579	C5*	C	A	177	97.817	37.899	-14.513	1.00	70.36	A16S
ATOM	3580	C4*	C	A	177	96.479	37.249	-14.310	1.00	70.36	A16S
ATOM	3581	O4*	C	A	177	96.332	36.857	-12.924	1.00	70.36	A16S
ATOM	3582	C1*	C	A	177	94.968	36.937	-12.555	1.00	70.36	A16S
ATOM	3583	N1	C	A	177	94.839	37.874	-11.436	1.00	73.21	A16S
ATOM	3584	C6	C	A	177	95.869	38.694	-11.078	1.00	73.21	A16S
ATOM	3585	C2	C	A	177	93.632	37.916	-10.743	1.00	73.21	A16S
ATOM	3586	O2	C	A	177	92.712	37.162	-11.092	1.00	73.21	A16S
ATOM	3587	N3	C	A	177	93.490	38.775	-9.715	1.00	73.21	A16S
ATOM	3588	C4	C	A	177	94.497	39.575	-9.374	1.00	73.21	A16S
ATOM	3589	N4	C	A	177	94.305	40.420	-8.357	1.00	73.21	A16S
ATOM	3590	C5	C	A	177	95.744	39.550	-10.062	1.00	73.21	A16S
ATOM	3591	C2*	C	A	177	94.178	37.407	-13.775	1.00	70.36	A16S
ATOM	3592	O2*	C	A	177	93.628	36.277	-14.430	1.00	70.36	A16S
ATOM	3593	C3*	C	A	177	95.261	38.107	-14.586	1.00	70.36	A16S
ATOM	3594	O3*	C	A	177	94.946	38.172	-15.963	1.00	70.36	A16S
ATOM	3595	P	C	A	178	94.161	39.453	-16.520	1.00	75.41	A16S
ATOM	3596	O1P	C	A	178	93.985	39.272	-17.989	1.00	88.79	A16S
ATOM	3597	O2P	C	A	178	94.851	40.665	-16.001	1.00	88.79	A16S
ATOM	3598	O5*	C	A	178	92.720	39.353	-15.841	1.00	75.41	A16S
ATOM	3599	C5*	C	A	178	91.797	38.309	-16.219	1.00	75.41	A16S
ATOM	3600	C4*	C	A	178	90.517	38.402	-15.415	1.00	75.41	A16S
ATOM	3601	O4*	C	A	178	90.793	38.198	-14.008	1.00	75.41	A16S
ATOM	3602	C1*	C	A	178	89.810	38.873	-13.237	1.00	75.41	A16S
ATOM	3603	N1	C	A	178	90.454	39.706	-12.210	1.00	88.79	A16S
ATOM	3604	C6	C	A	178	91.747	40.134	-12.343	1.00	88.79	A16S
ATOM	3605	C2	C	A	178	89.700	40.075	-11.089	1.00	88.79	A16S
ATOM	3606	O2	C	A	178	88.536	39.649	-10.982	1.00	88.79	A16S
ATOM	3607	N3	C	A	178	90.253	40.885	-10.156	1.00	88.79	A16S
ATOM	3608	C4	C	A	178	91.505	41.323	-10.310	1.00	88.79	A16S
ATOM	3609	N4	C	A	178	92.000	42.152	-9.382	1.00	88.79	A16S
ATOM	3610	C5	C	A	178	92.305	40.939	-11.428	1.00	88.79	A16S
ATOM	3611	C2*	C	A	178	88.932	39.693	-14.179	1.00	75.41	A16S
ATOM	3612	O2*	C	A	178	87.697	39.038	-14.339	1.00	75.41	A16S



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ATOM	3613	C3*	C	A	178	89.771	39.727	-15.453	1.00	75.41	A16S
ATOM	3614	O3*	C	A	178	88.944	39.825	-16.602	1.00	75.41	A16S
ATOM	3615	P	A	A	179	88.361	41.259	-17.044	1.00	73.60	A16S
ATOM	3616	O1P	A	A	179	87.373	41.006	-18.135	1.00	93.28	A16S
ATOM	3617	O2P	A	A	179	89.503	42.186	-17.288	1.00	93.28	A16S
ATOM	3618	O5*	A	A	179	87.572	41.770	-15.756	1.00	73.60	A16S
ATOM	3619	C5*	A	A	179	86.294	41.226	-15.421	1.00	73.60	A16S
ATOM	3620	C4*	A	A	179	85.712	41.959	-14.247	1.00	73.60	A16S
ATOM	3621	O4*	A	A	179	86.582	41.813	-13.099	1.00	73.60	A16S
ATOM	3622	C1*	A	A	179	86.342	42.888	-12.212	1.00	73.60	A16S
ATOM	3623	N9	A	A	179	87.605	43.407	-11.690	1.00	93.28	A16S
ATOM	3624	C4	A	A	179	87.691	44.369	-10.714	1.00	93.28	A16S
ATOM	3625	N3	A	A	179	86.672	44.989	-10.095	1.00	93.28	A16S
ATOM	3626	C2	A	A	179	87.126	45.861	-9.207	1.00	93.28	A16S
ATOM	3627	N1	A	A	179	88.385	46.159	-8.888	1.00	93.28	A16S
ATOM	3628	C6	A	A	179	89.385	45.511	-9.525	1.00	93.28	A16S
ATOM	3629	N6	A	A	179	90.643	45.796	-9.192	1.00	93.28	A16S
ATOM	3630	C5	A	A	179	89.036	44.568	-10.496	1.00	93.28	A16S
ATOM	3631	N7	A	A	179	89.794	43.754	-11.325	1.00	93.28	A16S
ATOM	3632	C8	A	A	179	88.899	43.086	-12.014	1.00	93.28	A16S
ATOM	3633	C2*	A	A	179	85.511	43.942	-12.946	1.00	73.60	A16S
ATOM	3634	O2*	A	A	179	84.210	43.925	-12.409	1.00	73.60	A16S
ATOM	3635	C3*	A	A	179	85.582	43.465	-14.393	1.00	73.60	A16S
ATOM	3636	O3*	A	A	179	84.407	43.818	-15.101	1.00	73.60	A16S
ATOM	3637	P	U	A	180	84.293	45.266	-15.779	1.00	76.17	A16S
ATOM	3638	O1P	U	A	180	82.991	45.321	-16.494	1.00	97.03	A16S
ATOM	3639	O2P	U	A	180	85.548	45.516	-16.524	1.00	97.03	A16S
ATOM	3640	O5*	U	A	180	84.213	46.266	-14.544	1.00	76.17	A16S
ATOM	3641	C5*	U	A	180	83.049	46.268	-13.707	1.00	76.17	A16S
ATOM	3642	C4*	U	A	180	83.198	47.261	-12.585	1.00	76.17	A16S
ATOM	3643	O4*	U	A	180	84.235	46.841	-11.672	1.00	76.17	A16S
ATOM	3644	C1*	U	A	180	84.868	47.983	-11.123	1.00	76.17	A16S
ATOM	3645	N1	U	A	180	86.296	47.923	-11.440	1.00	97.03	A16S
ATOM	3646	C6	U	A	180	86.771	47.170	-12.487	1.00	97.03	A16S
ATOM	3647	C2	U	A	180	87.141	48.671	-10.659	1.00	97.03	A16S
ATOM	3648	O2	U	A	180	86.751	49.320	-9.701	1.00	97.03	A16S
ATOM	3649	N3	U	A	180	88.459	48.630	-11.036	1.00	97.03	A16S
ATOM	3650	C4	U	A	180	89.004	47.920	-12.086	1.00	97.03	A16S
ATOM	3651	O4	U	A	180	90.204	48.044	-12.350	1.00	97.03	A16S
ATOM	3652	C5	U	A	180	88.059	47.142	-12.826	1.00	97.03	A16S
ATOM	3653	C2*	U	A	180	84.230	49.228	-11.737	1.00	76.17	A16S
ATOM	3654	O2*	U	A	180	83.314	49.801	-10.828	1.00	76.17	A16S
ATOM	3655	C3*	U	A	180	83.595	48.660	-12.998	1.00	76.17	A16S
ATOM	3656	O3*	U	A	180	82.469	49.402	-13.405	1.00	76.17	A16S
ATOM	3657	P	G	A	181	82.589	50.349	-14.681	1.00	98.09	A16S
ATOM	3658	O1P	G	A	181	81.458	51.307	-14.633	1.00	76.40	A16S
ATOM	3659	O2P	G	A	181	82.779	49.479	-15.880	1.00	76.40	A16S
ATOM	3660	O5*	G	A	181	83.934	51.151	-14.397	1.00	98.09	A16S
ATOM	3661	C5*	G	A	181	84.009	52.125	-13.336	1.00	98.09	A16S
ATOM	3662	C4*	G	A	181	85.000	53.207	-13.695	1.00	98.09	A16S
ATOM	3663	O4*	G	A	181	86.367	52.801	-13.408	1.00	98.09	A16S
ATOM	3664	C1*	G	A	181	87.223	53.183	-14.472	1.00	98.09	A16S
ATOM	3665	N9	G	A	181	88.260	52.153	-14.595	1.00	76.40	A16S
ATOM	3666	C4	G	A	181	89.501	52.133	-13.979	1.00	76.40	A16S
ATOM	3667	N3	G	A	181	89.989	53.063	-13.129	1.00	76.40	A16S
ATOM	3668	C2	G	A	181	91.224	52.774	-12.734	1.00	76.40	A16S
ATOM	3669	N2	G	A	181	91.870	53.602	-11.898	1.00	76.40	A16S
ATOM	3670	N1	G	A	181	91.919	51.658	-13.130	1.00	76.40	A16S
ATOM	3671	C6	G	A	181	91.436	50.683	-13.992	1.00	76.40	A16S
ATOM	3672	O6	G	A	181	92.143	49.706	-14.278	1.00	76.40	A16S
ATOM	3673	C5	G	A	181	90.117	50.982	-14.434	1.00	76.40	A16S
ATOM	3674	N7	G	A	181	89.286	50.287	-15.298	1.00	76.40	A16S
ATOM	3675	C8	G	A	181	88.199	51.011	-15.359	1.00	76.40	A16S
ATOM	3676	C2*	G	A	181	86.345	53.324	-15.727	1.00	98.09	A16S
ATOM	3677	O2*	G	A	181	86.849	54.263	-16.658	1.00	98.09	A16S
ATOM	3678	C3*	G	A	181	84.966	53.662	-15.146	1.00	98.09	A16S
ATOM	3679	O3*	G	A	181	84.188	54.840	-15.426	1.00	98.09	A16S
ATOM	3680	P	U	A	182	84.829	56.305	-15.274	1.00	96.62	A16S
ATOM	3681	O1P	U	A	182	84.655	57.022	-16.568	1.00	115.61	A16S
ATOM	3682	O2P	U	A	182	86.187	56.153	-14.700	1.00	115.61	A16S
ATOM	3683	O5*	U	A	182	83.909	57.002	-14.172	1.00	96.62	A16S
ATOM	3684	C5*	U	A	182	84.155	56.777	-12.768	1.00	96.62	A16S
ATOM	3685	C4*	U	A	182	84.367	58.093	-12.043	1.00	96.62	A16S
ATOM	3686	O4*	U	A	182	85.097	57.812	-10.819	1.00	96.62	A16S
ATOM	3687	C1*	U	A	182	86.132	58.764	-10.637	1.00	96.62	A16S
ATOM	3688	N1	U	A	182	87.416	58.046	-10.757	1.00	115.61	A16S
ATOM	3689	C6	U	A	182	87.624	57.117	-11.758	1.00	115.61	A16S



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ATOM	3690	C2	U	A	182	88.411	58.316	-9.831	1.00115.61	A16S
ATOM	3691	O2	U	A	182	88.297	59.153	-8.960	1.00115.61	A16S
ATOM	3692	N3	U	A	182	89.556	57.573	-9.978	1.00115.61	A16S
ATOM	3693	C4	U	A	182	89.817	56.625	-10.945	1.00115.61	A16S
ATOM	3694	O4	U	A	182	90.900	56.042	-10.944	1.00115.61	A16S
ATOM	3695	C5	U	A	182	88.758	56.421	-11.879	1.00115.61	A16S
ATOM	3696	C2*	U	A	182	85.935	59.867	-11.679	1.00 96.62	A16S
ATOM	3697	O2*	U	A	182	85.173	60.924	-11.129	1.00 96.62	A16S
ATOM	3698	C3*	U	A	182	85.222	59.107	-12.793	1.00 96.62	A16S
ATOM	3699	O3*	U	A	182	84.406	59.949	-13.608	1.00 96.62	A16S
ATOM	3700	P	G	A	183	85.038	60.663	-14.901	1.00 92.99	A16S
ATOM	3701	O1P	G	A	183	84.130	61.778	-15.269	1.00 79.61	A16S
ATOM	3702	O2P	G	A	183	85.367	59.623	-15.918	1.00 79.61	A16S
ATOM	3703	O5*	G	A	183	86.385	61.294	-14.334	1.00 92.99	A16S
ATOM	3704	C5*	G	A	183	87.570	61.336	-15.137	1.00 92.99	A16S
ATOM	3705	C4*	G	A	183	88.778	60.962	-14.311	1.00 92.99	A16S
ATOM	3706	O4*	G	A	183	88.593	59.639	-13.741	1.00 92.99	A16S
ATOM	3707	C1*	G	A	183	89.810	58.912	-13.803	1.00 92.99	A16S
ATOM	3708	N9	G	A	183	89.602	57.778	-14.704	1.00 79.61	A16S
ATOM	3709	C4	G	A	183	90.452	56.716	-14.927	1.00 79.61	A16S
ATOM	3710	N3	G	A	183	91.649	56.518	-14.339	1.00 79.61	A16S
ATOM	3711	C2	G	A	183	92.241	55.420	-14.788	1.00 79.61	A16S
ATOM	3712	N2	G	A	183	93.455	55.072	-14.318	1.00 79.61	A16S
ATOM	3713	N1	G	A	183	91.689	54.584	-15.731	1.00 79.61	A16S
ATOM	3714	C6	G	A	183	90.455	54.772	-16.340	1.00 79.61	A16S
ATOM	3715	O6	G	A	183	90.047	53.962	-17.169	1.00 79.61	A16S
ATOM	3716	C5	G	A	183	89.822	55.938	-15.880	1.00 79.61	A16S
ATOM	3717	N7	G	A	183	88.602	56.488	-16.241	1.00 79.61	A16S
ATOM	3718	C8	G	A	183	88.511	57.572	-15.520	1.00 79.61	A16S
ATOM	3719	C2*	G	A	183	90.890	59.877	-14.302	1.00 92.99	A16S
ATOM	3720	O2*	G	A	183	91.527	60.491	-13.196	1.00 92.99	A16S
ATOM	3721	C3*	G	A	183	90.063	60.865	-15.115	1.00 92.99	A16S
ATOM	3722	O3*	G	A	183	90.676	62.145	-15.262	1.00 92.99	A16S
ATOM	3723	P	G	A	184	91.365	62.545	-16.665	1.00 63.48	A16S
ATOM	3724	O1P	G	A	184	91.800	63.961	-16.523	1.00 71.38	A16S
ATOM	3725	O2P	G	A	184	90.475	62.160	-17.805	1.00 71.38	A16S
ATOM	3726	O5*	G	A	184	92.652	61.600	-16.722	1.00 63.48	A16S
ATOM	3727	C5*	G	A	184	93.800	61.855	-15.886	1.00 63.48	A16S
ATOM	3728	C4*	G	A	184	94.805	60.742	-16.029	1.00 63.48	A16S
ATOM	3729	O4*	G	A	184	94.143	59.504	-15.679	1.00 63.48	A16S
ATOM	3730	C1*	G	A	184	94.647	58.445	-16.475	1.00 63.48	A16S
ATOM	3731	N9	G	A	184	93.562	57.912	-17.294	1.00 71.38	A16S
ATOM	3732	C4	G	A	184	93.561	56.699	-17.950	1.00 71.38	A16S
ATOM	3733	N3	G	A	184	94.564	55.798	-17.953	1.00 71.38	A16S
ATOM	3734	C2	G	A	184	94.264	54.728	-18.671	1.00 71.38	A16S
ATOM	3735	N2	G	A	184	95.152	53.735	-18.781	1.00 71.38	A16S
ATOM	3736	N1	G	A	184	93.075	54.554	-19.330	1.00 71.38	A16S
ATOM	3737	C6	G	A	184	92.032	55.471	-19.340	1.00 71.38	A16S
ATOM	3738	O6	G	A	184	91.002	55.220	-19.963	1.00 71.38	A16S
ATOM	3739	C5	G	A	184	92.340	56.625	-18.578	1.00 71.38	A16S
ATOM	3740	N7	G	A	184	91.590	57.767	-18.334	1.00 71.38	A16S
ATOM	3741	C8	G	A	184	92.353	58.502	-17.570	1.00 71.38	A16S
ATOM	3742	C2*	G	A	184	95.746	59.020	-17.355	1.00 63.48	A16S
ATOM	3743	O2*	G	A	184	96.999	58.832	-16.729	1.00 63.48	A16S
ATOM	3744	C3*	G	A	184	95.330	60.476	-17.428	1.00 63.48	A16S
ATOM	3745	O3*	G	A	184	96.409	61.284	-17.824	1.00 63.48	A16S
ATOM	3746	P	A	A	185	96.753	61.396	-19.392	1.00 65.94	A16S
ATOM	3747	O1P	A	A	185	97.822	62.410	-19.530	1.00 69.36	A16S
ATOM	3748	O2P	A	A	185	95.508	61.549	-20.184	1.00 69.36	A16S
ATOM	3749	O5*	A	A	185	97.325	59.958	-19.767	1.00 65.94	A16S
ATOM	3750	C5*	A	A	185	98.597	59.514	-19.280	1.00 65.94	A16S
ATOM	3751	C4*	A	A	185	99.000	58.254	-19.991	1.00 65.94	A16S
ATOM	3752	O4*	A	A	185	98.070	57.209	-19.639	1.00 65.94	A16S
ATOM	3753	C1*	A	A	185	97.829	56.385	-20.761	1.00 65.94	A16S
ATOM	3754	N9	A	A	185	96.413	56.450	-21.075	1.00 69.36	A16S
ATOM	3755	C4	A	A	185	95.742	55.563	-21.868	1.00 69.36	A16S
ATOM	3756	N3	A	A	185	96.245	54.480	-22.472	1.00 69.36	A16S
ATOM	3757	C2	A	A	185	95.310	53.865	-23.174	1.00 69.36	A16S
ATOM	3758	N1	A	A	185	94.030	54.185	-23.328	1.00 69.36	A16S
ATOM	3759	C6	A	A	185	93.559	55.282	-22.703	1.00 69.36	A16S
ATOM	3760	N6	A	A	185	92.281	55.607	-22.861	1.00 69.36	A16S
ATOM	3761	C5	A	A	185	94.449	56.017	-21.928	1.00 69.36	A16S
ATOM	3762	N7	A	A	185	94.297	57.167	-21.171	1.00 69.36	A16S
ATOM	3763	C8	A	A	185	95.491	57.378	-20.683	1.00 69.36	A16S
ATOM	3764	C2*	A	A	185	98.665	56.904	-21.923	1.00 65.94	A16S
ATOM	3765	O2*	A	A	185	99.833	56.127	-22.031	1.00 65.94	A16S
ATOM	3766	C3*	A	A	185	98.914	58.342	-21.500	1.00 65.94	A16S



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ATOM	3767	O3*	A	A 185	100.104	58.858	-22.044	1.00	65.94	A16S
ATOM	3768	P	C	A 186	100.041	59.707	-23.395	1.00	52.77	A16S
ATOM	3769	O1P	C	A 186	101.387	60.300	-23.551	1.00	66.56	A16S
ATOM	3770	O2P	C	A 186	98.843	60.588	-23.318	1.00	66.56	A16S
ATOM	3771	O5*	C	A 186	99.828	58.619	-24.536	1.00	52.77	A16S
ATOM	3772	C5*	C	A 186	100.829	57.618	-24.755	1.00	52.77	A16S
ATOM	3773	C4*	C	A 186	100.347	56.584	-25.743	1.00	52.77	A16S
ATOM	3774	O4*	C	A 186	99.328	55.733	-25.155	1.00	52.77	A16S
ATOM	3775	C1*	C	A 186	98.398	55.353	-26.155	1.00	52.77	A16S
ATOM	3776	N1	C	A 186	97.096	55.924	-25.799	1.00	66.56	A16S
ATOM	3777	C6	C	A 186	97.013	56.993	-24.953	1.00	66.56	A16S
ATOM	3778	C2	C	A 186	95.944	55.375	-26.356	1.00	66.56	A16S
ATOM	3779	O2	C	A 186	96.044	54.378	-27.086	1.00	66.56	A16S
ATOM	3780	N3	C	A 186	94.749	55.940	-26.085	1.00	66.56	A16S
ATOM	3781	C4	C	A 186	94.682	57.000	-25.278	1.00	66.56	A16S
ATOM	3782	N4	C	A 186	93.486	57.545	-25.052	1.00	66.56	A16S
ATOM	3783	C5	C	A 186	95.839	57.555	-24.668	1.00	66.56	A16S
ATOM	3784	C2*	C	A 186	98.892	55.921	-27.486	1.00	52.77	A16S
ATOM	3785	O2*	C	A 186	99.704	54.949	-28.104	1.00	52.77	A16S
ATOM	3786	C3*	C	A 186	99.714	57.116	-27.018	1.00	52.77	A16S
ATOM	3787	O3*	C	A 186	100.711	57.494	-27.951	1.00	52.77	A16S
ATOM	3788	P	C	A 187	100.389	58.622	-29.040	1.00	57.42	A16S
ATOM	3789	O1P	C	A 187	101.692	58.973	-29.654	1.00	75.51	A16S
ATOM	3790	O2P	C	A 187	99.548	59.688	-28.437	1.00	75.51	A16S
ATOM	3791	O5*	C	A 187	99.523	57.826	-30.107	1.00	57.42	A16S
ATOM	3792	C5*	C	A 187	100.121	56.760	-30.848	1.00	57.42	A16S
ATOM	3793	C4*	C	A 187	99.137	56.182	-31.822	1.00	57.42	A16S
ATOM	3794	O4*	C	A 187	98.133	55.421	-31.114	1.00	57.42	A16S
ATOM	3795	C1*	C	A 187	96.894	55.541	-31.787	1.00	57.42	A16S
ATOM	3796	N1	C	A 187	95.926	56.151	-30.863	1.00	75.51	A16S
ATOM	3797	C6	C	A 187	96.336	56.810	-29.735	1.00	75.51	A16S
ATOM	3798	C2	C	A 187	94.569	56.064	-31.172	1.00	75.51	A16S
ATOM	3799	O2	C	A 187	94.232	55.422	-32.183	1.00	75.51	A16S
ATOM	3800	N3	C	A 187	93.660	56.673	-30.364	1.00	75.51	A16S
ATOM	3801	C4	C	A 187	94.070	57.331	-29.278	1.00	75.51	A16S
ATOM	3802	N4	C	A 187	93.150	57.929	-28.522	1.00	75.51	A16S
ATOM	3803	C5	C	A 187	95.449	57.408	-28.921	1.00	75.51	A16S
ATOM	3804	C2*	C	A 187	97.114	56.406	-33.034	1.00	57.42	A16S
ATOM	3805	O2*	C	A 187	97.329	55.603	-34.179	1.00	57.42	A16S
ATOM	3806	C3*	C	A 187	98.354	57.193	-32.639	1.00	57.42	A16S
ATOM	3807	O3*	C	A 187	99.091	57.636	-33.763	1.00	57.42	A16S
ATOM	3808	P	C	A 188	98.887	59.132	-34.301	1.00	77.77	A16S
ATOM	3809	O1P	C	A 188	99.745	59.235	-35.509	1.00	77.94	A16S
ATOM	3810	O2P	C	A 188	99.058	60.103	-33.191	1.00	77.94	A16S
ATOM	3811	O5*	C	A 188	97.363	59.149	-34.762	1.00	77.77	A16S
ATOM	3812	C5*	C	A 188	96.933	58.301	-35.845	1.00	77.77	A16S
ATOM	3813	C4*	C	A 188	95.440	58.399	-36.057	1.00	77.77	A16S
ATOM	3814	O4*	C	A 188	94.737	57.796	-34.946	1.00	77.77	A16S
ATOM	3815	C1*	C	A 188	93.518	58.480	-34.735	1.00	77.77	A16S
ATOM	3816	N1	C	A 188	93.548	59.092	-33.395	1.00	77.94	A16S
ATOM	3817	C6	C	A 188	94.725	59.262	-32.718	1.00	77.94	A16S
ATOM	3818	C2	C	A 188	92.340	59.500	-32.820	1.00	77.94	A16S
ATOM	3819	O2	C	A 188	91.285	59.346	-33.465	1.00	77.94	A16S
ATOM	3820	N3	C	A 188	92.350	60.053	-31.580	1.00	77.94	A16S
ATOM	3821	C4	C	A 188	93.503	60.200	-30.925	1.00	77.94	A16S
ATOM	3822	N4	C	A 188	93.464	60.734	-29.700	1.00	77.94	A16S
ATOM	3823	C5	C	A 188	94.747	59.805	-31.493	1.00	77.94	A16S
ATOM	3824	C2*	C	A 188	93.384	59.533	-35.830	1.00	77.77	A16S
ATOM	3825	O2*	C	A 188	92.652	58.964	-36.893	1.00	77.77	A16S
ATOM	3826	C3*	C	A 188	94.840	59.784	-36.189	1.00	77.77	A16S
ATOM	3827	O3*	C	A 188	94.990	60.306	-37.500	1.00	77.77	A16S
ATOM	3828	P	G	A 189	94.968	61.896	-37.719	1.00	84.82	A16S
ATOM	3829	O1P	G	A 189	95.203	62.125	-39.163	1.00	74.74	A16S
ATOM	3830	O2P	G	A 189	95.872	62.528	-36.726	1.00	74.74	A16S
ATOM	3831	O5*	G	A 189	93.465	62.290	-37.357	1.00	84.82	A16S
ATOM	3832	C5*	G	A 189	92.368	61.858	-38.191	1.00	84.82	A16S
ATOM	3833	C4*	G	A 189	91.088	62.557	-37.791	1.00	84.82	A16S
ATOM	3834	O4*	G	A 189	90.554	61.964	-36.586	1.00	84.82	A16S
ATOM	3835	C1*	G	A 189	89.962	62.970	-35.780	1.00	84.82	A16S
ATOM	3836	N9	G	A 189	90.694	63.012	-34.524	1.00	74.74	A16S
ATOM	3837	C4	G	A 189	90.230	63.450	-33.308	1.00	74.74	A16S
ATOM	3838	N3	G	A 189	89.000	63.936	-33.056	1.00	74.74	A16S
ATOM	3839	C2	G	A 189	88.853	64.266	-31.779	1.00	74.74	A16S
ATOM	3840	N2	G	A 189	87.685	64.759	-31.337	1.00	74.74	A16S
ATOM	3841	N1	G	A 189	89.836	64.137	-30.834	1.00	74.74	A16S
ATOM	3842	C6	G	A 189	91.111	63.647	-31.072	1.00	74.74	A16S
ATOM	3843	O6	G	A 189	91.932	63.586	-30.143	1.00	74.74	A16S



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ATOM	3844	C5	G	A	189	91.281	63.277	-32.434	1.00	74.74	A16S
ATOM	3845	N7	G	A	189	92.383	62.744	-33.088	1.00	74.74	A16S
ATOM	3846	C8	G	A	189	91.992	62.610	-34.323	1.00	74.74	A16S
ATOM	3847	C2*	G	A	189	90.056	64.296	-36.534	1.00	84.82	A16S
ATOM	3848	O2*	G	A	189	88.853	64.558	-37.228	1.00	84.82	A16S
ATOM	3849	C3*	G	A	189	91.225	64.036	-37.473	1.00	84.82	A16S
ATOM	3850	O3*	G	A	189	91.157	64.853	-38.630	1.00	84.82	A16S
ATOM	3851	P	C	A	190	91.694	66.360	-38.554	1.00	68.79	A16S
ATOM	3852	O1P	C	A	190	91.632	66.922	-39.926	1.00	71.74	A16S
ATOM	3853	O2P	C	A	190	92.983	66.363	-37.812	1.00	71.74	A16S
ATOM	3854	O5*	C	A	190	90.617	67.097	-37.647	1.00	68.79	A16S
ATOM	3855	C5*	C	A	190	89.294	67.328	-38.124	1.00	68.79	A16S
ATOM	3856	C4*	C	A	190	88.453	67.908	-37.023	1.00	68.79	A16S
ATOM	3857	O4*	C	A	190	88.349	66.944	-35.939	1.00	68.79	A16S
ATOM	3858	C1*	C	A	190	88.292	67.623	-34.688	1.00	68.79	A16S
ATOM	3859	N1	C	A	190	89.448	67.211	-33.856	1.00	71.74	A16S
ATOM	3860	C6	C	A	190	90.567	66.662	-34.418	1.00	71.74	A16S
ATOM	3861	C2	C	A	190	89.395	67.432	-32.466	1.00	71.74	A16S
ATOM	3862	O2	C	A	190	88.354	67.889	-31.967	1.00	71.74	A16S
ATOM	3863	N3	C	A	190	90.479	67.144	-31.708	1.00	71.74	A16S
ATOM	3864	C4	C	A	190	91.577	66.650	-32.276	1.00	71.74	A16S
ATOM	3865	N4	C	A	190	92.634	66.423	-31.498	1.00	71.74	A16S
ATOM	3866	C5	C	A	190	91.644	66.374	-33.674	1.00	71.74	A16S
ATOM	3867	C2*	C	A	190	88.343	69.123	-34.988	1.00	68.79	A16S
ATOM	3868	O2*	C	A	190	87.043	69.683	-35.028	1.00	68.79	A16S
ATOM	3869	C3*	C	A	190	89.030	69.135	-36.344	1.00	68.79	A16S
ATOM	3870	O3*	C	A	190	88.825	70.340	-37.044	1.00	68.79	A16S
ATOM	3871	P	C	A	190A	89.862	71.545	-36.818	1.00	69.70	A16S
ATOM	3872	O1P	C	A	190A	89.649	72.572	-37.881	1.00	66.73	A16S
ATOM	3873	O2P	C	A	190A	91.212	70.938	-36.633	1.00	66.73	A16S
ATOM	3874	O5*	C	A	190A	89.407	72.186	-35.436	1.00	69.70	A16S
ATOM	3875	C5*	C	A	190A	88.132	72.814	-35.323	1.00	69.70	A16S
ATOM	3876	C4*	C	A	190A	87.897	73.231	-33.907	1.00	69.70	A16S
ATOM	3877	O4*	C	A	190A	88.003	72.058	-33.065	1.00	69.70	A16S
ATOM	3878	C1*	C	A	190A	88.631	72.399	-31.842	1.00	69.70	A16S
ATOM	3879	N1	C	A	190A	89.902	71.652	-31.747	1.00	66.73	A16S
ATOM	3880	C6	C	A	190A	90.440	71.037	-32.843	1.00	66.73	A16S
ATOM	3881	C2	C	A	190A	90.559	71.587	-30.510	1.00	66.73	A16S
ATOM	3882	O2	C	A	190A	90.055	72.151	-29.535	1.00	66.73	A16S
ATOM	3883	N3	C	A	190A	91.727	70.912	-30.412	1.00	66.73	A16S
ATOM	3884	C4	C	A	190A	92.241	70.314	-31.486	1.00	66.73	A16S
ATOM	3885	N4	C	A	190A	93.387	69.657	-31.346	1.00	66.73	A16S
ATOM	3886	C5	C	A	190A	91.597	70.364	-32.758	1.00	66.73	A16S
ATOM	3887	C2*	C	A	190A	88.859	73.910	-31.854	1.00	69.70	A16S
ATOM	3888	O2*	C	A	190A	87.771	74.562	-31.223	1.00	69.70	A16S
ATOM	3889	C3*	C	A	190A	88.936	74.180	-33.348	1.00	69.70	A16S
ATOM	3890	O3*	C	A	190A	88.682	75.526	-33.694	1.00	69.70	A16S
ATOM	3891	P	C	A	190B	89.916	76.486	-34.081	1.00	67.96	A16S
ATOM	3892	O1P	C	A	190B	89.326	77.640	-34.811	1.00	72.59	A16S
ATOM	3893	O2P	C	A	190B	91.000	75.684	-34.714	1.00	72.59	A16S
ATOM	3894	O5*	C	A	190B	90.443	77.004	-32.678	1.00	67.96	A16S
ATOM	3895	C5*	C	A	190B	89.544	77.683	-31.811	1.00	67.96	A16S
ATOM	3896	C4*	C	A	190B	90.117	77.776	-30.433	1.00	67.96	A16S
ATOM	3897	O4*	C	A	190B	90.197	76.460	-29.831	1.00	67.96	A16S
ATOM	3898	C1*	C	A	190B	91.328	76.398	-28.985	1.00	67.96	A16S
ATOM	3899	N1	C	A	190B	92.252	75.370	-29.499	1.00	72.59	A16S
ATOM	3900	C6	C	A	190B	92.245	75.002	-30.818	1.00	72.59	A16S
ATOM	3901	C2	C	A	190B	93.163	74.791	-28.613	1.00	72.59	A16S
ATOM	3902	O2	C	A	190B	93.122	75.119	-27.417	1.00	72.59	A16S
ATOM	3903	N3	C	A	190B	94.061	73.890	-29.079	1.00	72.59	A16S
ATOM	3904	C4	C	A	190B	94.058	73.555	-30.368	1.00	72.59	A16S
ATOM	3905	N4	C	A	190B	94.968	72.677	-30.785	1.00	72.59	A16S
ATOM	3906	C5	C	A	190B	93.123	74.108	-31.290	1.00	72.59	A16S
ATOM	3907	C2*	C	A	190B	91.987	77.778	-29.005	1.00	67.96	A16S
ATOM	3908	O2*	C	A	190B	91.501	78.554	-27.927	1.00	67.96	A16S
ATOM	3909	C3*	C	A	190B	91.526	78.313	-30.353	1.00	67.96	A16S
ATOM	3910	O3*	C	A	190B	91.558	79.725	-30.440	1.00	67.96	A16S
ATOM	3911	P	C	A	190C	92.961	80.467	-30.677	1.00	83.29	A16S
ATOM	3912	O1P	C	A	190C	92.722	81.938	-30.639	1.00	77.89	A16S
ATOM	3913	O2P	C	A	190C	93.629	79.858	-31.866	1.00	77.89	A16S
ATOM	3914	O5*	C	A	190C	93.761	80.087	-29.358	1.00	83.29	A16S
ATOM	3915	C5*	C	A	190C	95.172	80.192	-29.307	1.00	83.29	A16S
ATOM	3916	C4*	C	A	190C	95.721	79.217	-28.307	1.00	83.29	A16S
ATOM	3917	O4*	C	A	190C	95.209	77.895	-28.584	1.00	83.29	A16S
ATOM	3918	C1*	C	A	190C	96.253	76.947	-28.474	1.00	83.29	A16S
ATOM	3919	N1	C	A	190C	96.453	76.367	-29.815	1.00	77.89	A16S
ATOM	3920	C6	C	A	190C	95.670	76.770	-30.859	1.00	77.89	A16S



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ATOM	3921	C2	C	A	190C	97.433	75.382	-30.010	1.00	77.89	A16S
ATOM	3922	O2	C	A	190C	98.177	75.067	-29.065	1.00	77.89	A16S
ATOM	3923	N3	C	A	190C	97.553	74.807	-31.231	1.00	77.89	A16S
ATOM	3924	C4	C	A	190C	96.760	75.199	-32.236	1.00	77.89	A16S
ATOM	3925	N4	C	A	190C	96.900	74.599	-33.424	1.00	77.89	A16S
ATOM	3926	C5	C	A	190C	95.787	76.220	-32.070	1.00	77.89	A16S
ATOM	3927	C2*	C	A	190C	97.474	77.675	-27.906	1.00	83.29	A16S
ATOM	3928	O2*	C	A	190C	97.461	77.615	-26.491	1.00	83.29	A16S
ATOM	3929	C3*	C	A	190C	97.224	79.087	-28.396	1.00	83.29	A16S
ATOM	3930	O3*	C	A	190C	97.818	80.078	-27.596	1.00	83.29	A16S
ATOM	3931	P	U	A	190D	98.566	81.304	-28.301	1.00	71.59	A16S
ATOM	3932	O1P	U	A	190D	98.043	82.527	-27.641	1.00	78.28	A16S
ATOM	3933	O2P	U	A	190D	98.477	81.174	-29.797	1.00	78.28	A16S
ATOM	3934	O5*	U	A	190D	100.075	81.090	-27.840	1.00	71.59	A16S
ATOM	3935	C5*	U	A	190D	101.106	80.701	-28.776	1.00	71.59	A16S
ATOM	3936	C4*	U	A	190D	101.391	79.219	-28.666	1.00	71.59	A16S
ATOM	3937	O4*	U	A	190D	100.353	78.501	-29.383	1.00	71.59	A16S
ATOM	3938	C1*	U	A	190D	100.936	77.703	-30.385	1.00	71.59	A16S
ATOM	3939	N1	U	A	190D	100.051	77.691	-31.556	1.00	78.28	A16S
ATOM	3940	C6	U	A	190D	99.090	78.655	-31.743	1.00	78.28	A16S
ATOM	3941	C2	U	A	190D	100.218	76.659	-32.472	1.00	78.28	A16S
ATOM	3942	O2	U	A	190D	101.057	75.779	-32.345	1.00	78.28	A16S
ATOM	3943	N3	U	A	190D	99.363	76.692	-33.543	1.00	78.28	A16S
ATOM	3944	C4	U	A	190D	98.377	77.622	-33.788	1.00	78.28	A16S
ATOM	3945	O4	U	A	190D	97.643	77.477	-34.769	1.00	78.28	A16S
ATOM	3946	C5	U	A	190D	98.270	78.657	-32.797	1.00	78.28	A16S
ATOM	3947	C2*	U	A	190D	102.310	78.296	-30.665	1.00	71.59	A16S
ATOM	3948	O2*	U	A	190D	103.181	77.323	-31.192	1.00	71.59	A16S
ATOM	3949	C3*	U	A	190D	102.716	78.781	-29.281	1.00	71.59	A16S
ATOM	3950	O3*	U	A	190D	103.282	77.722	-28.502	1.00	71.59	A16S
ATOM	3951	P	U	A	190E	104.875	77.467	-28.524	1.00	59.30	A16S
ATOM	3952	O1P	U	A	190E	105.265	76.886	-27.217	1.00	85.29	A16S
ATOM	3953	O2P	U	A	190E	105.583	78.672	-29.016	1.00	85.29	A16S
ATOM	3954	O5*	U	A	190E	105.056	76.347	-29.628	1.00	59.30	A16S
ATOM	3955	C5*	U	A	190E	104.840	74.999	-29.289	1.00	59.30	A16S
ATOM	3956	C4*	U	A	190E	105.451	74.102	-30.315	1.00	59.30	A16S
ATOM	3957	O4*	U	A	190E	106.754	74.617	-30.694	1.00	59.30	A16S
ATOM	3958	C1*	U	A	190E	107.729	73.629	-30.463	1.00	59.30	A16S
ATOM	3959	N1	U	A	190E	108.969	74.268	-30.009	1.00	85.29	A16S
ATOM	3960	C6	U	A	190E	108.987	75.138	-28.950	1.00	85.29	A16S
ATOM	3961	C2	U	A	190E	110.128	73.947	-30.685	1.00	85.29	A16S
ATOM	3962	O2	U	A	190E	110.151	73.196	-31.645	1.00	85.29	A16S
ATOM	3963	N3	U	A	190E	111.263	74.541	-30.204	1.00	85.29	A16S
ATOM	3964	C4	U	A	190E	111.350	75.419	-29.150	1.00	85.29	A16S
ATOM	3965	O4	U	A	190E	112.435	75.941	-28.892	1.00	85.29	A16S
ATOM	3966	C5	U	A	190E	110.105	75.708	-28.507	1.00	85.29	A16S
ATOM	3967	C2*	U	A	190E	107.140	72.691	-29.415	1.00	59.30	A16S
ATOM	3968	O2*	U	A	190E	107.743	71.421	-29.475	1.00	59.30	A16S
ATOM	3969	C3*	U	A	190E	105.663	72.695	-29.781	1.00	59.30	A16S
ATOM	3970	O3*	U	A	190E	105.379	71.716	-30.769	1.00	59.30	A16S
ATOM	3971	P	G	A	190F	104.145	70.712	-30.547	1.00	64.46	A16S
ATOM	3972	O1P	G	A	190F	104.396	69.498	-31.364	1.00	64.87	A16S
ATOM	3973	O2P	G	A	190F	102.886	71.489	-30.740	1.00	64.87	A16S
ATOM	3974	O5*	G	A	190F	104.233	70.302	-29.013	1.00	64.46	A16S
ATOM	3975	C5*	G	A	190F	103.094	69.746	-28.361	1.00	64.46	A16S
ATOM	3976	C4*	G	A	190F	103.524	68.853	-27.231	1.00	64.46	A16S
ATOM	3977	O4*	G	A	190F	104.451	67.870	-27.745	1.00	64.46	A16S
ATOM	3978	C1*	G	A	190F	105.617	67.886	-26.968	1.00	64.46	A16S
ATOM	3979	N9	G	A	190F	106.733	67.455	-27.794	1.00	64.87	A16S
ATOM	3980	C4	G	A	190F	107.784	66.690	-27.370	1.00	64.87	A16S
ATOM	3981	N3	G	A	190F	107.998	66.281	-26.107	1.00	64.87	A16S
ATOM	3982	C2	G	A	190F	109.056	65.500	-26.019	1.00	64.87	A16S
ATOM	3983	N2	G	A	190F	109.417	64.998	-24.831	1.00	64.87	A16S
ATOM	3984	N1	G	A	190F	109.841	65.147	-27.087	1.00	64.87	A16S
ATOM	3985	C6	G	A	190F	109.641	65.557	-28.397	1.00	64.87	A16S
ATOM	3986	O6	G	A	190F	110.404	65.161	-29.291	1.00	64.87	A16S
ATOM	3987	C5	G	A	190F	108.512	66.406	-28.505	1.00	64.87	A16S
ATOM	3988	N7	G	A	190F	107.959	67.032	-29.613	1.00	64.87	A16S
ATOM	3989	C8	G	A	190F	106.914	67.656	-29.140	1.00	64.87	A16S
ATOM	3990	C2*	G	A	190F	105.693	69.269	-26.341	1.00	64.46	A16S
ATOM	3991	O2*	G	A	190F	106.479	69.193	-25.173	1.00	64.46	A16S
ATOM	3992	C3*	G	A	190F	104.217	69.541	-26.060	1.00	64.46	A16S
ATOM	3993	O3*	G	A	190F	103.855	68.854	-24.860	1.00	64.46	A16S
ATOM	3994	P	G	A	190G	102.340	68.920	-24.306	1.00	65.78	A16S
ATOM	3995	O1P	G	A	190G	102.368	68.290	-22.955	1.00	69.61	A16S
ATOM	3996	O2P	G	A	190G	101.414	68.391	-25.354	1.00	69.61	A16S
ATOM	3997	O5*	G	A	190G	102.028	70.464	-24.085	1.00	65.78	A16S



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ATOM	3998	C5*	G	A	190G	102.390	71.113	-22.859	1.00	65.78	A16S
ATOM	3999	C4*	G	A	190G	101.444	72.252	-22.579	1.00	65.78	A16S
ATOM	4000	O4*	G	A	190G	101.398	73.119	-23.739	1.00	65.78	A16S
ATOM	4001	C1*	G	A	190G	100.079	73.568	-23.960	1.00	65.78	A16S
ATOM	4002	N9	G	A	190G	99.628	72.996	-25.223	1.00	69.61	A16S
ATOM	4003	C4	G	A	190G	98.426	73.222	-25.831	1.00	69.61	A16S
ATOM	4004	N3	G	A	190G	97.443	74.010	-25.359	1.00	69.61	A16S
ATOM	4005	C2	G	A	190G	96.399	74.024	-26.162	1.00	69.61	A16S
ATOM	4006	N2	G	A	190G	95.331	74.761	-25.839	1.00	69.61	A16S
ATOM	4007	N1	G	A	190G	96.324	73.318	-27.339	1.00	69.61	A16S
ATOM	4008	C6	G	A	190G	97.329	72.502	-27.843	1.00	69.61	A16S
ATOM	4009	O6	G	A	190G	97.166	71.911	-28.919	1.00	69.61	A16S
ATOM	4010	C5	G	A	190G	98.454	72.477	-26.989	1.00	69.61	A16S
ATOM	4011	N7	G	A	190G	99.653	71.793	-27.105	1.00	69.61	A16S
ATOM	4012	C8	G	A	190G	100.317	72.128	-26.035	1.00	69.61	A16S
ATOM	4013	C2*	G	A	190G	99.239	73.090	-22.784	1.00	65.78	A16S
ATOM	4014	O2*	G	A	190G	99.243	74.098	-21.798	1.00	65.78	A16S
ATOM	4015	C3*	G	A	190G	100.004	71.847	-22.359	1.00	65.78	A16S
ATOM	4016	O3*	G	A	190G	99.785	71.506	-21.003	1.00	65.78	A16S
ATOM	4017	P	G	A	190H	98.856	70.247	-20.652	1.00	83.13	A16S
ATOM	4018	O1P	G	A	190H	98.952	70.094	-19.178	1.00	80.21	A16S
ATOM	4019	O2P	G	A	190H	99.253	69.115	-21.537	1.00	80.21	A16S
ATOM	4020	O5*	G	A	190H	97.386	70.722	-21.079	1.00	83.13	A16S
ATOM	4021	C5*	G	A	190H	96.711	71.785	-20.365	1.00	83.13	A16S
ATOM	4022	C4*	G	A	190H	95.410	72.182	-21.048	1.00	83.13	A16S
ATOM	4023	O4*	G	A	190H	95.677	72.815	-22.326	1.00	83.13	A16S
ATOM	4024	C1*	G	A	190H	94.569	72.620	-23.190	1.00	83.13	A16S
ATOM	4025	N9	G	A	190H	94.989	71.843	-24.348	1.00	80.21	A16S
ATOM	4026	C4	G	A	190H	94.257	71.664	-25.498	1.00	80.21	A16S
ATOM	4027	N3	G	A	190H	93.041	72.187	-25.750	1.00	80.21	A16S
ATOM	4028	C2	G	A	190H	92.587	71.833	-26.936	1.00	80.21	A16S
ATOM	4029	N2	G	A	190H	91.387	72.259	-27.335	1.00	80.21	A16S
ATOM	4030	N1	G	A	190H	93.275	71.035	-27.812	1.00	80.21	A16S
ATOM	4031	C6	G	A	190H	94.528	70.485	-27.574	1.00	80.21	A16S
ATOM	4032	O6	G	A	190H	95.064	69.777	-28.434	1.00	80.21	A16S
ATOM	4033	C5	G	A	190H	95.024	70.851	-26.298	1.00	80.21	A16S
ATOM	4034	N7	G	A	190H	96.216	70.523	-25.665	1.00	80.21	A16S
ATOM	4035	C8	G	A	190H	96.152	71.134	-24.513	1.00	80.21	A16S
ATOM	4036	C2*	G	A	190H	93.522	71.818	-22.432	1.00	83.13	A16S
ATOM	4037	O2*	G	A	190H	92.571	72.718	-21.903	1.00	83.13	A16S
ATOM	4038	C3*	G	A	190H	94.377	71.113	-21.384	1.00	83.13	A16S
ATOM	4039	O3*	G	A	190H	93.581	70.691	-20.282	1.00	83.13	A16S
ATOM	4040	P	G	A	190I	92.784	69.292	-20.370	1.00	73.69	A16S
ATOM	4041	O1P	G	A	190I	92.143	69.100	-19.036	1.00	69.91	A16S
ATOM	4042	O2P	G	A	190I	93.706	68.251	-20.897	1.00	69.91	A16S
ATOM	4043	O5*	G	A	190I	91.650	69.561	-21.458	1.00	73.69	A16S
ATOM	4044	C5*	G	A	190I	90.645	70.551	-21.206	1.00	73.69	A16S
ATOM	4045	C4*	G	A	190I	89.617	70.576	-22.308	1.00	73.69	A16S
ATOM	4046	O4*	G	A	190I	90.230	71.015	-23.542	1.00	73.69	A16S
ATOM	4047	C1*	G	A	190I	89.581	70.397	-24.637	1.00	73.69	A16S
ATOM	4048	N9	G	A	190I	90.550	69.567	-25.332	1.00	69.91	A16S
ATOM	4049	C4	G	A	190I	90.465	69.153	-26.630	1.00	69.91	A16S
ATOM	4050	N3	G	A	190I	89.478	69.466	-27.493	1.00	69.91	A16S
ATOM	4051	C2	G	A	190I	89.666	68.917	-28.676	1.00	69.91	A16S
ATOM	4052	N2	G	A	190I	88.780	69.145	-29.656	1.00	69.91	A16S
ATOM	4053	N1	G	A	190I	90.739	68.108	-28.988	1.00	69.91	A16S
ATOM	4054	C6	G	A	190I	91.771	67.770	-28.110	1.00	69.91	A16S
ATOM	4055	O6	G	A	190I	92.705	67.027	-28.488	1.00	69.91	A16S
ATOM	4056	C5	G	A	190I	91.578	68.368	-26.836	1.00	69.91	A16S
ATOM	4057	N7	G	A	190I	92.352	68.302	-25.687	1.00	69.91	A16S
ATOM	4058	C8	G	A	190I	91.704	69.029	-24.822	1.00	69.91	A16S
ATOM	4059	C2*	G	A	190I	88.458	69.524	-24.086	1.00	73.69	A16S
ATOM	4060	O2*	G	A	190I	87.247	70.244	-24.133	1.00	73.69	A16S
ATOM	4061	C3*	G	A	190I	88.942	69.264	-22.667	1.00	73.69	A16S
ATOM	4062	O3*	G	A	190I	87.862	68.950	-21.800	1.00	73.69	A16S
ATOM	4063	P	U	A	190J	87.406	67.417	-21.629	1.00	81.22	A16S
ATOM	4064	O1P	U	A	190J	86.184	67.432	-20.774	1.00	98.69	A16S
ATOM	4065	O2P	U	A	190J	88.595	66.611	-21.202	1.00	98.69	A16S
ATOM	4066	O5*	U	A	190J	86.990	66.985	-23.108	1.00	81.22	A16S
ATOM	4067	C5*	U	A	190J	85.895	67.631	-23.772	1.00	81.22	A16S
ATOM	4068	C4*	U	A	190J	85.790	67.164	-25.201	1.00	81.22	A16S
ATOM	4069	O4*	U	A	190J	86.986	67.538	-25.928	1.00	81.22	A16S
ATOM	4070	C1*	U	A	190J	87.243	66.579	-26.943	1.00	81.22	A16S
ATOM	4071	N1	U	A	190J	88.590	66.022	-26.758	1.00	98.69	A16S
ATOM	4072	C6	U	A	190J	89.211	66.012	-25.530	1.00	98.69	A16S
ATOM	4073	C2	U	A	190J	89.208	65.481	-27.873	1.00	98.69	A16S
ATOM	4074	O2	U	A	190J	88.699	65.485	-28.980	1.00	98.69	A16S



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ATOM	4075	N3	U	A	190J	90.441	64.931	-27.642	1.00	98.69	A16S
ATOM	4076	C4	U	A	190J	91.110	64.869	-26.438	1.00	98.69	A16S
ATOM	4077	O4	U	A	190J	92.199	64.291	-26.379	1.00	98.69	A16S
ATOM	4078	C5	U	A	190J	90.415	65.468	-25.337	1.00	98.69	A16S
ATOM	4079	C2*	U	A	190J	86.177	65.488	-26.847	1.00	81.22	A16S
ATOM	4080	O2*	U	A	190J	85.187	65.671	-27.844	1.00	81.22	A16S
ATOM	4081	C3*	U	A	190J	85.687	65.666	-25.414	1.00	81.22	A16S
ATOM	4082	O3*	U	A	190J	84.372	65.177	-25.231	1.00	81.22	A16S
ATOM	4083	P	G	A	190K	84.159	63.686	-24.675	1.00	92.87	A16S
ATOM	4084	O1P	G	A	190K	82.865	63.706	-23.960	1.00	79.92	A16S
ATOM	4085	O2P	G	A	190K	85.380	63.223	-23.962	1.00	79.92	A16S
ATOM	4086	O5*	G	A	190K	84.000	62.815	-25.996	1.00	92.87	A16S
ATOM	4087	C5*	G	A	190K	82.847	62.970	-26.839	1.00	92.87	A16S
ATOM	4088	C4*	G	A	190K	83.051	62.236	-28.137	1.00	92.87	A16S
ATOM	4089	O4*	G	A	190K	84.099	62.894	-28.891	1.00	92.87	A16S
ATOM	4090	C1*	G	A	190K	84.882	61.924	-29.568	1.00	92.87	A16S
ATOM	4091	N9	G	A	190K	86.242	61.988	-29.040	1.00	79.92	A16S
ATOM	4092	C4	G	A	190K	87.392	61.591	-29.687	1.00	79.92	A16S
ATOM	4093	N3	G	A	190K	87.471	61.119	-30.951	1.00	79.92	A16S
ATOM	4094	C2	G	A	190K	88.709	60.803	-31.279	1.00	79.92	A16S
ATOM	4095	N2	G	A	190K	88.969	60.338	-32.494	1.00	79.92	A16S
ATOM	4096	N1	G	A	190K	89.784	60.922	-30.435	1.00	79.92	A16S
ATOM	4097	C6	G	A	190K	89.726	61.390	-29.124	1.00	79.92	A16S
ATOM	4098	O6	G	A	190K	90.751	61.424	-28.431	1.00	79.92	A16S
ATOM	4099	C5	G	A	190K	88.407	61.760	-28.764	1.00	79.92	A16S
ATOM	4100	N7	G	A	190K	87.912	62.287	-27.575	1.00	79.92	A16S
ATOM	4101	C8	G	A	190K	86.629	62.414	-27.787	1.00	79.92	A16S
ATOM	4102	C2*	G	A	190K	84.254	60.553	-29.307	1.00	92.87	A16S
ATOM	4103	O2*	G	A	190K	83.394	60.218	-30.374	1.00	92.87	A16S
ATOM	4104	C3*	G	A	190K	83.521	60.798	-27.994	1.00	92.87	A16S
ATOM	4105	O3*	G	A	190K	82.445	59.897	-27.769	1.00	92.87	A16S
ATOM	4106	P	U	A	190L	82.724	58.498	-27.021	1.00	74.93	A16S
ATOM	4107	O1P	U	A	190L	81.392	57.928	-26.690	1.00	103.98	A16S
ATOM	4108	O2P	U	A	190L	83.714	58.709	-25.927	1.00	103.98	A16S
ATOM	4109	O5*	U	A	190L	83.379	57.588	-28.162	1.00	74.93	A16S
ATOM	4110	C5*	U	A	190L	82.575	57.135	-29.271	1.00	74.93	A16S
ATOM	4111	C4*	U	A	190L	83.377	56.273	-30.217	1.00	74.93	A16S
ATOM	4112	O4*	U	A	190L	84.307	57.089	-30.969	1.00	74.93	A16S
ATOM	4113	C1*	U	A	190L	85.477	56.340	-31.240	1.00	74.93	A16S
ATOM	4114	N1	U	A	190L	86.618	56.970	-30.558	1.00	103.98	A16S
ATOM	4115	C6	U	A	190L	86.471	57.671	-29.379	1.00	103.98	A16S
ATOM	4116	C2	U	A	190L	87.863	56.798	-31.127	1.00	103.98	A16S
ATOM	4117	O2	U	A	190L	88.027	56.218	-32.194	1.00	103.98	A16S
ATOM	4118	N3	U	A	190L	88.910	57.325	-30.407	1.00	103.98	A16S
ATOM	4119	C4	U	A	190L	88.838	57.999	-29.208	1.00	103.98	A16S
ATOM	4120	O4	U	A	190L	89.880	58.320	-28.632	1.00	103.98	A16S
ATOM	4121	C5	U	A	190L	87.509	58.174	-28.705	1.00	103.98	A16S
ATOM	4122	C2*	U	A	190L	85.266	54.930	-30.690	1.00	74.93	A16S
ATOM	4123	O2*	U	A	190L	84.800	54.089	-31.719	1.00	74.93	A16S
ATOM	4124	C3*	U	A	190L	84.232	55.180	-29.602	1.00	74.93	A16S
ATOM	4125	O3*	U	A	190L	83.496	54.010	-29.277	1.00	74.93	A16S
ATOM	4126	P	G	A	191	83.992	53.077	-28.063	1.00	82.51	A16S
ATOM	4127	O1P	G	A	191	83.011	51.972	-27.922	1.00	90.00	A16S
ATOM	4128	O2P	G	A	191	84.288	53.941	-26.895	1.00	90.00	A16S
ATOM	4129	O5*	G	A	191	85.363	52.470	-28.602	1.00	82.51	A16S
ATOM	4130	C5*	G	A	191	85.388	51.719	-29.826	1.00	82.51	A16S
ATOM	4131	C4*	G	A	191	86.791	51.279	-30.153	1.00	82.51	A16S
ATOM	4132	O4*	G	A	191	87.585	52.411	-30.587	1.00	82.51	A16S
ATOM	4133	C1*	G	A	191	88.937	52.217	-30.194	1.00	82.51	A16S
ATOM	4134	N9	G	A	191	89.318	53.289	-29.276	1.00	90.00	A16S
ATOM	4135	C4	G	A	191	90.589	53.569	-28.830	1.00	90.00	A16S
ATOM	4136	N3	G	A	191	91.710	52.893	-29.156	1.00	90.00	A16S
ATOM	4137	C2	G	A	191	92.780	53.401	-28.569	1.00	90.00	A16S
ATOM	4138	N2	G	A	191	93.978	52.840	-28.769	1.00	90.00	A16S
ATOM	4139	N1	G	A	191	92.752	54.494	-27.738	1.00	90.00	A16S
ATOM	4140	C6	G	A	191	91.607	55.204	-27.391	1.00	90.00	A16S
ATOM	4141	O6	G	A	191	91.688	56.175	-26.632	1.00	90.00	A16S
ATOM	4142	C5	G	A	191	90.455	54.665	-28.002	1.00	90.00	A16S
ATOM	4143	N7	G	A	191	89.126	55.060	-27.917	1.00	90.00	A16S
ATOM	4144	C8	G	A	191	88.489	54.219	-28.686	1.00	90.00	A16S
ATOM	4145	C2*	G	A	191	89.029	50.848	-29.523	1.00	82.51	A16S
ATOM	4146	O2*	G	A	191	89.379	49.890	-30.503	1.00	82.51	A16S
ATOM	4147	C3*	G	A	191	87.602	50.659	-29.025	1.00	82.51	A16S
ATOM	4148	O3*	G	A	191	87.290	49.288	-28.808	1.00	82.51	A16S
ATOM	4149	P	U	A	192	87.378	48.674	-27.317	1.00	76.61	A16S
ATOM	4150	O1P	U	A	192	86.845	47.280	-27.415	1.00	71.42	A16S
ATOM	4151	O2P	U	A	192	86.764	49.639	-26.349	1.00	71.42	A16S



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ATOM	4152	O5*	U	A	192	88.943	48.608	-27.004	1.00	76.61	A16S
ATOM	4153	C5*	U	A	192	89.843	47.863	-27.850	1.00	76.61	A16S
ATOM	4154	C4*	U	A	192	91.274	48.098	-27.426	1.00	76.61	A16S
ATOM	4155	O4*	U	A	192	91.645	49.473	-27.682	1.00	76.61	A16S
ATOM	4156	C1*	U	A	192	92.543	49.918	-26.681	1.00	76.61	A16S
ATOM	4157	N1	U	A	192	91.951	51.081	-26.014	1.00	71.42	A16S
ATOM	4158	C6	U	A	192	90.598	51.291	-26.032	1.00	71.42	A16S
ATOM	4159	C2	U	A	192	92.801	51.963	-25.378	1.00	71.42	A16S
ATOM	4160	O2	U	A	192	94.009	51.790	-25.302	1.00	71.42	A16S
ATOM	4161	N3	U	A	192	92.184	53.051	-24.821	1.00	71.42	A16S
ATOM	4162	C4	U	A	192	90.835	53.332	-24.823	1.00	71.42	A16S
ATOM	4163	O4	U	A	192	90.437	54.405	-24.364	1.00	71.42	A16S
ATOM	4164	C5	U	A	192	90.027	52.351	-25.472	1.00	71.42	A16S
ATOM	4165	C2*	U	A	192	92.794	48.759	-25.722	1.00	76.61	A16S
ATOM	4166	O2*	U	A	192	93.975	48.089	-26.095	1.00	76.61	A16S
ATOM	4167	C3*	U	A	192	91.562	47.902	-25.951	1.00	76.61	A16S
ATOM	4168	O3*	U	A	192	91.833	46.555	-25.660	1.00	76.61	A16S
ATOM	4169	P	C	A	193	91.643	46.029	-24.161	1.00	79.78	A16S
ATOM	4170	O1P	C	A	193	91.951	44.563	-24.212	1.00	61.04	A16S
ATOM	4171	O2P	C	A	193	90.321	46.500	-23.657	1.00	61.04	A16S
ATOM	4172	O5*	C	A	193	92.766	46.798	-23.331	1.00	79.78	A16S
ATOM	4173	C5*	C	A	193	94.159	46.559	-23.595	1.00	79.78	A16S
ATOM	4174	C4*	C	A	193	95.025	47.514	-22.815	1.00	79.78	A16S
ATOM	4175	O4*	C	A	193	94.802	48.871	-23.267	1.00	79.78	A16S
ATOM	4176	C1*	C	A	193	94.987	49.763	-22.185	1.00	79.78	A16S
ATOM	4177	N1	C	A	193	93.745	50.520	-21.970	1.00	61.04	A16S
ATOM	4178	C6	C	A	193	92.627	50.268	-22.708	1.00	61.04	A16S
ATOM	4179	C2	C	A	193	93.729	51.513	-20.989	1.00	61.04	A16S
ATOM	4180	O2	C	A	193	94.752	51.710	-20.318	1.00	61.04	A16S
ATOM	4181	N3	C	A	193	92.606	52.226	-20.790	1.00	61.04	A16S
ATOM	4182	C4	C	A	193	91.525	51.970	-21.516	1.00	61.04	A16S
ATOM	4183	N4	C	A	193	90.440	52.690	-21.282	1.00	61.04	A16S
ATOM	4184	C5	C	A	193	91.507	50.962	-22.514	1.00	61.04	A16S
ATOM	4185	C2*	C	A	193	95.371	48.932	-20.964	1.00	79.78	A16S
ATOM	4186	O2*	C	A	193	96.781	48.870	-20.880	1.00	79.78	A16S
ATOM	4187	C3*	C	A	193	94.781	47.583	-21.322	1.00	79.78	A16S
ATOM	4188	O3*	C	A	193	95.436	46.548	-20.635	1.00	79.78	A16S
ATOM	4189	P	C	A	194	94.853	46.053	-19.226	1.00	78.91	A16S
ATOM	4190	O1P	C	A	194	95.556	44.775	-18.956	1.00	56.60	A16S
ATOM	4191	O2P	C	A	194	93.372	46.091	-19.246	1.00	56.60	A16S
ATOM	4192	O5*	C	A	194	95.328	47.148	-18.174	1.00	78.91	A16S
ATOM	4193	C5*	C	A	194	96.660	47.123	-17.651	1.00	78.91	A16S
ATOM	4194	C4*	C	A	194	96.836	48.220	-16.643	1.00	78.91	A16S
ATOM	4195	O4*	C	A	194	96.528	49.481	-17.281	1.00	78.91	A16S
ATOM	4196	C1*	C	A	194	95.906	50.348	-16.354	1.00	78.91	A16S
ATOM	4197	N1	C	A	194	94.562	50.675	-16.844	1.00	56.60	A16S
ATOM	4198	C6	C	A	194	93.956	49.904	-17.797	1.00	56.60	A16S
ATOM	4199	C2	C	A	194	93.903	51.791	-16.309	1.00	56.60	A16S
ATOM	4200	O2	C	A	194	94.485	52.478	-15.446	1.00	56.60	A16S
ATOM	4201	N3	C	A	194	92.656	52.087	-16.742	1.00	56.60	A16S
ATOM	4202	C4	C	A	194	92.071	51.318	-17.667	1.00	56.60	A16S
ATOM	4203	N4	C	A	194	90.838	51.632	-18.060	1.00	56.60	A16S
ATOM	4204	C5	C	A	194	92.726	50.186	-18.230	1.00	56.60	A16S
ATOM	4205	C2*	C	A	194	95.859	49.633	-15.009	1.00	78.91	A16S
ATOM	4206	O2*	C	A	194	96.983	50.076	-14.280	1.00	78.91	A16S
ATOM	4207	C3*	C	A	194	95.918	48.166	-15.432	1.00	78.91	A16S
ATOM	4208	O3*	C	A	194	96.460	47.313	-14.416	1.00	78.91	A16S
ATOM	4209	P	A	A	195	95.520	46.227	-13.682	1.00	71.99	A16S
ATOM	4210	O1P	A	A	195	96.355	45.021	-13.416	1.00	73.01	A16S
ATOM	4211	O2P	A	A	195	94.233	46.096	-14.432	1.00	73.01	A16S
ATOM	4212	O5*	A	A	195	95.185	46.893	-12.279	1.00	71.99	A16S
ATOM	4213	C5*	A	A	195	94.404	48.086	-12.217	1.00	71.99	A16S
ATOM	4214	C4*	A	A	195	94.878	48.951	-11.084	1.00	71.99	A16S
ATOM	4215	O4*	A	A	195	94.196	50.217	-11.154	1.00	71.99	A16S
ATOM	4216	C1*	A	A	195	93.816	50.619	-9.859	1.00	71.99	A16S
ATOM	4217	N9	A	A	195	92.369	50.746	-9.879	1.00	73.01	A16S
ATOM	4218	C4	A	A	195	91.624	51.682	-9.218	1.00	73.01	A16S
ATOM	4219	N3	A	A	195	92.070	52.629	-8.381	1.00	73.01	A16S
ATOM	4220	C2	A	A	195	91.059	53.379	-7.941	1.00	73.01	A16S
ATOM	4221	N1	A	A	195	89.751	53.288	-8.221	1.00	73.01	A16S
ATOM	4222	C6	A	A	195	89.340	52.316	-9.064	1.00	73.01	A16S
ATOM	4223	N6	A	A	195	88.037	52.214	-9.334	1.00	73.01	A16S
ATOM	4224	C5	A	A	195	90.319	51.462	-9.604	1.00	73.01	A16S
ATOM	4225	N7	A	A	195	90.243	50.390	-10.478	1.00	73.01	A16S
ATOM	4226	C8	A	A	195	91.481	49.993	-10.595	1.00	73.01	A16S
ATOM	4227	C2*	A	A	195	94.381	49.621	-8.842	1.00	71.99	A16S
ATOM	4228	O2*	A	A	195	95.566	50.150	-8.278	1.00	71.99	A16S



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ATOM	4229	C3*	A	A	195	94.606	48.379	-9.703	1.00	71.99	A16S
ATOM	4230	O3*	A	A	195	95.776	47.665	-9.296	1.00	71.99	A16S
ATOM	4231	P	A	A	196	95.656	46.175	-8.703	1.00	78.67	A16S
ATOM	4232	O1P	A	A	196	96.980	45.522	-8.925	1.00	63.10	A16S
ATOM	4233	O2P	A	A	196	94.422	45.534	-9.242	1.00	63.10	A16S
ATOM	4234	O5*	A	A	196	95.476	46.411	-7.135	1.00	78.67	A16S
ATOM	4235	C5*	A	A	196	96.592	46.844	-6.318	1.00	78.67	A16S
ATOM	4236	C4*	A	A	196	96.100	47.639	-5.128	1.00	78.67	A16S
ATOM	4237	O4*	A	A	196	95.262	48.703	-5.626	1.00	78.67	A16S
ATOM	4238	C1*	A	A	196	94.153	48.872	-4.778	1.00	78.67	A16S
ATOM	4239	N9	A	A	196	92.968	48.658	-5.594	1.00	63.10	A16S
ATOM	4240	C4	A	A	196	91.896	49.504	-5.676	1.00	63.10	A16S
ATOM	4241	N3	A	A	196	91.723	50.659	-5.009	1.00	63.10	A16S
ATOM	4242	C2	A	A	196	90.577	51.232	-5.362	1.00	63.10	A16S
ATOM	4243	N1	A	A	196	89.652	50.807	-6.234	1.00	63.10	A16S
ATOM	4244	C6	A	A	196	89.853	49.630	-6.874	1.00	63.10	A16S
ATOM	4245	N6	A	A	196	88.918	49.190	-7.721	1.00	63.10	A16S
ATOM	4246	C5	A	A	196	91.037	48.935	-6.597	1.00	63.10	A16S
ATOM	4247	N7	A	A	196	91.553	47.741	-7.078	1.00	63.10	A16S
ATOM	4248	C8	A	A	196	92.694	47.618	-6.448	1.00	63.10	A16S
ATOM	4249	C2*	A	A	196	94.302	47.927	-3.584	1.00	78.67	A16S
ATOM	4250	O2*	A	A	196	94.859	48.629	-2.491	1.00	78.67	A16S
ATOM	4251	C3*	A	A	196	95.241	46.865	-4.139	1.00	78.67	A16S
ATOM	4252	O3*	A	A	196	96.060	46.341	-3.096	1.00	78.67	A16S
ATOM	4253	P	A	A	197	96.515	44.800	-3.128	1.00	89.95	A16S
ATOM	4254	O1P	A	A	197	95.345	43.974	-3.526	1.00	68.49	A16S
ATOM	4255	O2P	A	A	197	97.775	44.700	-3.910	1.00	68.49	A16S
ATOM	4256	O5*	A	A	197	96.868	44.498	-1.605	1.00	89.95	A16S
ATOM	4257	C5*	A	A	197	96.119	43.544	-0.828	1.00	89.95	A16S
ATOM	4258	C4*	A	A	197	95.593	44.209	0.416	1.00	89.95	A16S
ATOM	4259	O4*	A	A	197	96.682	44.863	1.074	1.00	89.95	A16S
ATOM	4260	C1*	A	A	197	96.251	46.070	1.639	1.00	89.95	A16S
ATOM	4261	N9	A	A	197	97.340	47.024	1.487	1.00	68.49	A16S
ATOM	4262	C4	A	A	197	97.861	47.790	2.493	1.00	68.49	A16S
ATOM	4263	N3	A	A	197	97.381	47.930	3.737	1.00	68.49	A16S
ATOM	4264	C2	A	A	197	98.200	48.673	4.469	1.00	68.49	A16S
ATOM	4265	N1	A	A	197	99.360	49.239	4.127	1.00	68.49	A16S
ATOM	4266	C6	A	A	197	99.809	49.078	2.865	1.00	68.49	A16S
ATOM	4267	N6	A	A	197	100.975	49.625	2.525	1.00	68.49	A16S
ATOM	4268	C5	A	A	197	99.024	48.330	1.987	1.00	68.49	A16S
ATOM	4269	N7	A	A	197	99.181	47.993	0.653	1.00	68.49	A16S
ATOM	4270	C8	A	A	197	98.139	47.243	0.396	1.00	68.49	A16S
ATOM	4271	C2*	A	A	197	94.826	46.380	1.191	1.00	89.95	A16S
ATOM	4272	O2*	A	A	197	93.984	46.318	2.314	1.00	89.95	A16S
ATOM	4273	C3*	A	A	197	94.564	45.287	0.152	1.00	89.95	A16S
ATOM	4274	O3*	A	A	197	93.270	44.654	0.200	1.00	89.95	A16S
ATOM	4275	P	G	A	198	92.748	43.867	1.539	1.00	67.76	A16S
ATOM	4276	O1P	G	A	198	92.111	42.619	1.023	1.00	59.57	A16S
ATOM	4277	O2P	G	A	198	91.962	44.787	2.414	1.00	59.57	A16S
ATOM	4278	O5*	G	A	198	94.028	43.414	2.375	1.00	67.76	A16S
ATOM	4279	C5*	G	A	198	93.881	43.013	3.752	1.00	67.76	A16S
ATOM	4280	C4*	G	A	198	95.029	43.534	4.570	1.00	67.76	A16S
ATOM	4281	O4*	G	A	198	95.312	44.893	4.168	1.00	67.76	A16S
ATOM	4282	C1*	G	A	198	95.739	45.645	5.289	1.00	67.76	A16S
ATOM	4283	N9	G	A	198	94.800	46.744	5.514	1.00	59.57	A16S
ATOM	4284	C4	G	A	198	95.032	47.843	6.302	1.00	59.57	A16S
ATOM	4285	N3	G	A	198	96.161	48.095	6.990	1.00	59.57	A16S
ATOM	4286	C2	G	A	198	96.086	49.217	7.673	1.00	59.57	A16S
ATOM	4287	N2	G	A	198	97.120	49.600	8.421	1.00	59.57	A16S
ATOM	4288	N1	G	A	198	94.995	50.037	7.680	1.00	59.57	A16S
ATOM	4289	C6	G	A	198	93.817	49.798	6.985	1.00	59.57	A16S
ATOM	4290	O6	G	A	198	92.880	50.595	7.076	1.00	59.57	A16S
ATOM	4291	C5	G	A	198	93.882	48.591	6.240	1.00	59.57	A16S
ATOM	4292	N7	G	A	198	92.941	47.984	5.415	1.00	59.57	A16S
ATOM	4293	C8	G	A	198	93.529	46.891	5.009	1.00	59.57	A16S
ATOM	4294	C2*	G	A	198	95.791	44.698	6.481	1.00	67.76	A16S
ATOM	4295	O2*	G	A	198	97.079	44.122	6.589	1.00	67.76	A16S
ATOM	4296	C3*	G	A	198	94.785	43.645	6.065	1.00	67.76	A16S
ATOM	4297	O3*	G	A	198	95.023	42.454	6.776	1.00	67.76	A16S
ATOM	4298	P	G	A	199	94.402	42.287	8.248	1.00	63.21	A16S
ATOM	4299	O1P	G	A	199	94.863	40.944	8.694	1.00	60.50	A16S
ATOM	4300	O2P	G	A	199	92.942	42.591	8.177	1.00	60.50	A16S
ATOM	4301	O5*	G	A	199	95.125	43.401	9.139	1.00	63.21	A16S
ATOM	4302	C5*	G	A	199	96.493	43.231	9.540	1.00	63.21	A16S
ATOM	4303	C4*	G	A	199	96.978	44.426	10.315	1.00	63.21	A16S
ATOM	4304	O4*	G	A	199	96.789	45.620	9.523	1.00	63.21	A16S
ATOM	4305	C1*	G	A	199	96.530	46.723	10.376	1.00	63.21	A16S



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ATOM	4306	N9	G	A	199	95.208	47.258	10.079	1.00	60.50	A16S
ATOM	4307	C4	G	A	199	94.704	48.426	10.579	1.00	60.50	A16S
ATOM	4308	N3	G	A	199	95.352	49.267	11.409	1.00	60.50	A16S
ATOM	4309	C2	G	A	199	94.618	50.313	11.721	1.00	60.50	A16S
ATOM	4310	N2	G	A	199	95.135	51.252	12.522	1.00	60.50	A16S
ATOM	4311	N1	G	A	199	93.332	50.512	11.264	1.00	60.50	A16S
ATOM	4312	C6	G	A	199	92.643	49.648	10.411	1.00	60.50	A16S
ATOM	4313	O6	G	A	199	91.482	49.907	10.060	1.00	60.50	A16S
ATOM	4314	C5	G	A	199	93.432	48.531	10.060	1.00	60.50	A16S
ATOM	4315	N7	G	A	199	93.145	47.450	9.239	1.00	60.50	A16S
ATOM	4316	C8	G	A	199	94.227	46.719	9.281	1.00	60.50	A16S
ATOM	4317	C2*	G	A	199	96.548	46.219	11.809	1.00	63.21	A16S
ATOM	4318	O2*	G	A	199	97.800	46.485	12.409	1.00	63.21	A16S
ATOM	4319	C3*	G	A	199	96.243	44.747	11.598	1.00	63.21	A16S
ATOM	4320	O3*	G	A	199	96.663	43.973	12.690	1.00	63.21	A16S
ATOM	4321	P	G	A	200	95.587	43.577	13.810	1.00	79.85	A16S
ATOM	4322	O1P	G	A	200	96.245	42.537	14.665	1.00	52.08	A16S
ATOM	4323	O2P	G	A	200	94.313	43.259	13.086	1.00	52.08	A16S
ATOM	4324	O5*	G	A	200	95.374	44.926	14.630	1.00	79.85	A16S
ATOM	4325	C5*	G	A	200	96.504	45.676	15.087	1.00	79.85	A16S
ATOM	4326	C4*	G	A	200	96.062	46.960	15.744	1.00	79.85	A16S
ATOM	4327	O4*	G	A	200	95.559	47.898	14.764	1.00	79.85	A16S
ATOM	4328	C1*	G	A	200	94.602	48.743	15.372	1.00	79.85	A16S
ATOM	4329	N9	G	A	200	93.378	48.733	14.581	1.00	52.08	A16S
ATOM	4330	C4	G	A	200	92.405	49.698	14.606	1.00	52.08	A16S
ATOM	4331	N3	G	A	200	92.412	50.806	15.379	1.00	52.08	A16S
ATOM	4332	C2	G	A	200	91.351	51.568	15.155	1.00	52.08	A16S
ATOM	4333	N2	G	A	200	91.215	52.728	15.816	1.00	52.08	A16S
ATOM	4334	N1	G	A	200	90.352	51.253	14.262	1.00	52.08	A16S
ATOM	4335	C6	G	A	200	90.322	50.108	13.470	1.00	52.08	A16S
ATOM	4336	O6	G	A	200	89.369	49.907	12.711	1.00	52.08	A16S
ATOM	4337	C5	G	A	200	91.462	49.296	13.680	1.00	52.08	A16S
ATOM	4338	N7	G	A	200	91.828	48.096	13.092	1.00	52.08	A16S
ATOM	4339	C8	G	A	200	92.968	47.796	13.661	1.00	52.08	A16S
ATOM	4340	C2*	G	A	200	94.408	48.281	16.811	1.00	79.85	A16S
ATOM	4341	O2*	G	A	200	95.196	49.106	17.637	1.00	79.85	A16S
ATOM	4342	C3*	G	A	200	94.936	46.853	16.751	1.00	79.85	A16S
ATOM	4343	O3*	G	A	200	95.412	46.396	18.001	1.00	79.85	A16S
ATOM	4344	P	C	A	201	94.406	45.643	18.997	1.00	96.74	A16S
ATOM	4345	O1P	C	A	201	95.135	44.539	19.666	1.00	53.86	A16S
ATOM	4346	O2P	C	A	201	93.138	45.347	18.267	1.00	53.86	A16S
ATOM	4347	O5*	C	A	201	94.175	46.748	20.112	1.00	96.74	A16S
ATOM	4348	C5*	C	A	201	92.904	46.936	20.721	1.00	96.74	A16S
ATOM	4349	C4*	C	A	201	92.442	48.336	20.468	1.00	96.74	A16S
ATOM	4350	O4*	C	A	201	92.390	48.534	19.048	1.00	96.74	A16S
ATOM	4351	C1*	C	A	201	91.343	49.417	18.748	1.00	96.74	A16S
ATOM	4352	N1	C	A	201	90.528	48.838	17.681	1.00	53.86	A16S
ATOM	4353	C6	C	A	201	90.822	47.612	17.138	1.00	53.86	A16S
ATOM	4354	C2	C	A	201	89.445	49.592	17.197	1.00	53.86	A16S
ATOM	4355	O2	C	A	201	89.180	50.685	17.752	1.00	53.86	A16S
ATOM	4356	N3	C	A	201	88.721	49.114	16.151	1.00	53.86	A16S
ATOM	4357	C4	C	A	201	89.033	47.927	15.610	1.00	53.86	A16S
ATOM	4358	N4	C	A	201	88.300	47.500	14.576	1.00	53.86	A16S
ATOM	4359	C5	C	A	201	90.112	47.124	16.109	1.00	53.86	A16S
ATOM	4360	C2*	C	A	201	90.593	49.770	20.033	1.00	96.74	A16S
ATOM	4361	O2*	C	A	201	90.958	51.082	20.411	1.00	96.74	A16S
ATOM	4362	C3*	C	A	201	91.059	48.677	20.987	1.00	96.74	A16S
ATOM	4363	O3*	C	A	201	91.214	49.200	22.296	1.00	96.74	A16S
ATOM	4364	P	U	A	202	90.477	48.506	23.535	1.00	147.32	A16S
ATOM	4365	O1P	U	A	202	91.563	48.095	24.469	1.00	144.21	A16S
ATOM	4366	O2P	U	A	202	89.516	47.482	23.016	1.00	144.21	A16S
ATOM	4367	O5*	U	A	202	89.701	49.732	24.204	1.00	147.32	A16S
ATOM	4368	C5*	U	A	202	88.294	49.658	24.521	1.00	147.32	A16S
ATOM	4369	C4*	U	A	202	87.623	50.989	24.255	1.00	147.32	A16S
ATOM	4370	O4*	U	A	202	88.224	52.002	25.089	1.00	147.32	A16S
ATOM	4371	C1*	U	A	202	88.055	53.258	24.473	1.00	147.32	A16S
ATOM	4372	N1	U	A	202	89.225	54.117	24.742	1.00	144.21	A16S
ATOM	4373	C6	U	A	202	90.239	53.707	25.583	1.00	144.21	A16S
ATOM	4374	C2	U	A	202	89.266	55.379	24.151	1.00	144.21	A16S
ATOM	4375	O2	U	A	202	88.416	55.782	23.374	1.00	144.21	A16S
ATOM	4376	N3	U	A	202	90.343	56.154	24.506	1.00	144.21	A16S
ATOM	4377	C4	U	A	202	91.369	55.814	25.364	1.00	144.21	A16S
ATOM	4378	O4	U	A	202	92.235	56.653	25.638	1.00	144.21	A16S
ATOM	4379	C5	U	A	202	91.276	54.490	25.907	1.00	144.21	A16S
ATOM	4380	C2*	U	A	202	87.612	53.041	23.021	1.00	147.32	A16S
ATOM	4381	O2*	U	A	202	86.269	53.462	22.910	1.00	147.32	A16S
ATOM	4382	C3*	U	A	202	87.762	51.528	22.835	1.00	147.32	A16S



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ATOM	4383	O3* U	A 202	86.710	51.086	21.951	1.00147.32	A16S
ATOM	4384	P U	A 203	85.822	49.787	22.316	1.00 98.96	A16S
ATOM	4385	O1P U	A 203	85.004	50.156	23.496	1.00105.93	A16S
ATOM	4386	O2P U	A 203	86.693	48.587	22.367	1.00105.93	A16S
ATOM	4387	O5* U	A 203	84.811	49.589	21.101	1.00 98.96	A16S
ATOM	4388	C5* U	A 203	84.937	50.353	19.902	1.00 98.96	A16S
ATOM	4389	C4* U	A 203	85.052	49.438	18.711	1.00 98.96	A16S
ATOM	4390	O4* U	A 203	86.231	48.626	18.817	1.00 98.96	A16S
ATOM	4391	C1* U	A 203	86.125	47.622	17.842	1.00 98.96	A16S
ATOM	4392	N1 U	A 203	87.070	46.528	18.119	1.00105.93	A16S
ATOM	4393	C6 U	A 203	87.954	46.589	19.186	1.00105.93	A16S
ATOM	4394	C2 U	A 203	87.086	45.445	17.235	1.00105.93	A16S
ATOM	4395	O2 U	A 203	86.282	45.312	16.312	1.00105.93	A16S
ATOM	4396	N3 U	A 203	88.077	44.524	17.474	1.00105.93	A16S
ATOM	4397	C4 U	A 203	89.026	44.554	18.490	1.00105.93	A16S
ATOM	4398	O4 U	A 203	89.938	43.714	18.490	1.00105.93	A16S
ATOM	4399	C5 U	A 203	88.904	45.669	19.394	1.00105.93	A16S
ATOM	4400	C2* U	A 203	84.637	47.311	17.658	1.00 98.96	A16S
ATOM	4401	O2* U	A 203	84.348	47.391	16.271	1.00 98.96	A16S
ATOM	4402	C3* U	A 203	83.954	48.405	18.501	1.00 98.96	A16S
ATOM	4403	O3* U	A 203	82.924	48.997	17.724	1.00 98.96	A16S
ATOM	4404	P U	A 204	81.647	49.655	18.436	1.00140.16	A16S
ATOM	4405	O1P U	A 204	82.109	50.430	19.619	1.00198.94	A16S
ATOM	4406	O2P U	A 204	80.626	48.590	18.610	1.00198.94	A16S
ATOM	4407	O5* U	A 204	81.129	50.682	17.332	1.00140.16	A16S
ATOM	4408	C5* U	A 204	79.728	50.840	17.059	1.00140.16	A16S
ATOM	4409	C4* U	A 204	79.510	51.113	15.590	1.00140.16	A16S
ATOM	4410	O4* U	A 204	80.144	50.066	14.814	1.00140.16	A16S
ATOM	4411	C1* U	A 204	79.336	49.745	13.699	1.00140.16	A16S
ATOM	4412	N1 U	A 204	79.005	48.312	13.761	1.00198.94	A16S
ATOM	4413	C6 U	A 204	79.460	47.520	14.792	1.00198.94	A16S
ATOM	4414	C2 U	A 204	78.214	47.780	12.751	1.00198.94	A16S
ATOM	4415	O2 U	A 204	77.800	48.438	11.807	1.00198.94	A16S
ATOM	4416	N3 U	A 204	77.927	46.445	12.887	1.00198.94	A16S
ATOM	4417	C4 U	A 204	78.341	45.603	13.899	1.00198.94	A16S
ATOM	4418	O4 U	A 204	77.973	44.426	13.897	1.00198.94	A16S
ATOM	4419	C5 U	A 204	79.164	46.222	14.892	1.00198.94	A16S
ATOM	4420	C2* U	A 204	78.108	50.665	13.712	1.00140.16	A16S
ATOM	4421	O2* U	A 204	78.294	51.716	12.786	1.00140.16	A16S
ATOM	4422	C3* U	A 204	78.043	51.111	15.173	1.00140.16	A16S
ATOM	4423	O3* U	A 204	77.379	52.394	15.288	1.00140.16	A16S
ATOM	4424	P G	A 216	78.237	53.761	15.422	1.00153.88	A16S
ATOM	4425	O1P G	A 216	78.895	53.784	16.750	1.00 80.89	A16S
ATOM	4426	O2P G	A 216	77.402	54.913	15.022	1.00 80.89	A16S
ATOM	4427	O5* G	A 216	79.338	53.567	14.288	1.00153.88	A16S
ATOM	4428	C5* G	A 216	79.927	54.678	13.599	1.00153.88	A16S
ATOM	4429	C4* G	A 216	81.230	55.026	14.252	1.00153.88	A16S
ATOM	4430	O4* G	A 216	81.802	53.821	14.802	1.00153.88	A16S
ATOM	4431	C1* G	A 216	83.203	53.912	14.755	1.00153.88	A16S
ATOM	4432	N9 G	A 216	83.730	52.745	14.061	1.00 80.89	A16S
ATOM	4433	C4 G	A 216	84.758	51.980	14.524	1.00 80.89	A16S
ATOM	4434	N3 G	A 216	85.450	52.214	15.655	1.00 80.89	A16S
ATOM	4435	C2 G	A 216	86.350	51.290	15.883	1.00 80.89	A16S
ATOM	4436	N2 G	A 216	87.098	51.391	16.980	1.00 80.89	A16S
ATOM	4437	N1 G	A 216	86.568	50.207	15.056	1.00 80.89	A16S
ATOM	4438	C6 G	A 216	85.868	49.943	13.880	1.00 80.89	A16S
ATOM	4439	O6 G	A 216	86.130	48.930	13.218	1.00 80.89	A16S
ATOM	4440	C5 G	A 216	84.889	50.947	13.623	1.00 80.89	A16S
ATOM	4441	N7 G	A 216	83.978	51.086	12.580	1.00 80.89	A16S
ATOM	4442	C8 G	A 216	83.314	52.174	12.879	1.00 80.89	A16S
ATOM	4443	C2* G	A 216	83.583	55.251	14.136	1.00153.88	A16S
ATOM	4444	O2* G	A 216	83.825	56.172	15.181	1.00153.88	A16S
ATOM	4445	C3* G	A 216	82.320	55.605	13.370	1.00153.88	A16S
ATOM	4446	O3* G	A 216	82.222	57.008	13.250	1.00153.88	A16S
ATOM	4447	P C	A 217	83.158	57.771	12.194	1.00151.77	A16S
ATOM	4448	O1P C	A 217	82.698	59.189	12.222	1.00 74.24	A16S
ATOM	4449	O2P C	A 217	83.113	56.992	10.917	1.00 74.24	A16S
ATOM	4450	O5* C	A 217	84.637	57.683	12.806	1.00151.77	A16S
ATOM	4451	C5* C	A 217	85.129	58.710	13.705	1.00151.77	A16S
ATOM	4452	C4* C	A 217	86.414	58.284	14.405	1.00151.77	A16S
ATOM	4453	O4* C	A 217	86.252	56.959	14.971	1.00151.77	A16S
ATOM	4454	C1* C	A 217	87.510	56.314	15.038	1.00151.77	A16S
ATOM	4455	N1 C	A 217	87.501	55.143	14.156	1.00 74.24	A16S
ATOM	4456	C6 C	A 217	86.749	55.114	13.013	1.00 74.24	A16S
ATOM	4457	C2 C	A 217	88.299	54.062	14.501	1.00 74.24	A16S
ATOM	4458	O2 C	A 217	88.970	54.126	15.545	1.00 74.24	A16S
ATOM	4459	N3 C	A 217	88.328	52.980	13.693	1.00 74.24	A16S



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ATOM	4460	C4	C	A	217	87.594	52.961	12.580	1.00	74.24	A16S
ATOM	4461	N4	C	A	217	87.652	51.872	11.813	1.00	74.24	A16S
ATOM	4462	C5	C	A	217	86.769	54.055	12.204	1.00	74.24	A16S
ATOM	4463	C2*	C	A	217	88.556	57.288	14.525	1.00151.77		A16S
ATOM	4464	O2*	C	A	217	89.103	57.976	15.630	1.00151.77		A16S
ATOM	4465	C3*	C	A	217	87.717	58.177	13.621	1.00151.77		A16S
ATOM	4466	O3*	C	A	217	88.377	59.416	13.450	1.00151.77		A16S
ATOM	4467	P	C	A	218	89.581	59.532	12.392	1.00	92.88	A16S
ATOM	4468	O1P	C	A	218	90.122	60.901	12.569	1.00	61.06	A16S
ATOM	4469	O2P	C	A	218	89.092	59.091	11.061	1.00	61.06	A16S
ATOM	4470	O5*	C	A	218	90.694	58.515	12.913	1.00	92.88	A16S
ATOM	4471	C5*	C	A	218	91.460	58.830	14.097	1.00	92.88	A16S
ATOM	4472	C4*	C	A	218	92.595	57.848	14.299	1.00	92.88	A16S
ATOM	4473	O4*	C	A	218	92.082	56.530	14.608	1.00	92.88	A16S
ATOM	4474	C1*	C	A	218	92.946	55.546	14.069	1.00	92.88	A16S
ATOM	4475	N1	C	A	218	92.198	54.773	13.067	1.00	61.06	A16S
ATOM	4476	C6	C	A	218	91.046	55.261	12.515	1.00	61.06	A16S
ATOM	4477	C2	C	A	218	92.679	53.522	12.697	1.00	61.06	A16S
ATOM	4478	O2	C	A	218	93.743	53.130	13.184	1.00	61.06	A16S
ATOM	4479	N3	C	A	218	91.979	52.777	11.816	1.00	61.06	A16S
ATOM	4480	C4	C	A	218	90.841	53.250	11.301	1.00	61.06	A16S
ATOM	4481	N4	C	A	218	90.166	52.477	10.449	1.00	61.06	A16S
ATOM	4482	C5	C	A	218	90.341	54.539	11.638	1.00	61.06	A16S
ATOM	4483	C2*	C	A	218	94.137	56.266	13.449	1.00	92.88	A16S
ATOM	4484	O2*	C	A	218	95.160	56.348	14.418	1.00	92.88	A16S
ATOM	4485	C3*	C	A	218	93.532	57.623	13.129	1.00	92.88	A16S
ATOM	4486	O3*	C	A	218	94.524	58.619	13.060	1.00	92.88	A16S
ATOM	4487	P	C	A	219	95.190	58.961	11.647	1.00	81.00	A16S
ATOM	4488	O1P	C	A	219	96.062	60.134	11.917	1.00	48.94	A16S
ATOM	4489	O2P	C	A	219	94.109	59.052	10.611	1.00	48.94	A16S
ATOM	4490	O5*	C	A	219	96.096	57.687	11.333	1.00	81.00	A16S
ATOM	4491	C5*	C	A	219	97.290	57.445	12.092	1.00	81.00	A16S
ATOM	4492	C4*	C	A	219	97.964	56.169	11.649	1.00	81.00	A16S
ATOM	4493	O4*	C	A	219	97.124	55.029	11.962	1.00	81.00	A16S
ATOM	4494	C1*	C	A	219	97.308	54.019	10.983	1.00	81.00	A16S
ATOM	4495	N1	C	A	219	96.040	53.825	10.261	1.00	48.94	A16S
ATOM	4496	C6	C	A	219	95.088	54.801	10.238	1.00	48.94	A16S
ATOM	4497	C2	C	A	219	95.827	52.615	9.580	1.00	48.94	A16S
ATOM	4498	O2	C	A	219	96.698	51.739	9.629	1.00	48.94	A16S
ATOM	4499	N3	C	A	219	94.680	52.432	8.889	1.00	48.94	A16S
ATOM	4500	C4	C	A	219	93.762	53.397	8.866	1.00	48.94	A16S
ATOM	4501	N4	C	A	219	92.649	53.188	8.155	1.00	48.94	A16S
ATOM	4502	C5	C	A	219	93.945	54.630	9.564	1.00	48.94	A16S
ATOM	4503	C2*	C	A	219	98.385	54.509	10.023	1.00	81.00	A16S
ATOM	4504	O2*	C	A	219	99.646	54.032	10.459	1.00	81.00	A16S
ATOM	4505	C3*	C	A	219	98.235	56.014	10.166	1.00	81.00	A16S
ATOM	4506	O3*	C	A	219	99.367	56.716	9.713	1.00	81.00	A16S
ATOM	4507	P	G	A	220	99.314	57.407	8.266	1.00	84.93	A16S
ATOM	4508	O1P	G	A	220	100.668	57.963	8.047	1.00	71.25	A16S
ATOM	4509	O2P	G	A	220	98.137	58.307	8.215	1.00	71.25	A16S
ATOM	4510	O5*	G	A	220	99.037	56.201	7.249	1.00	84.93	A16S
ATOM	4511	C5*	G	A	220	100.022	55.168	7.079	1.00	84.93	A16S
ATOM	4512	C4*	G	A	220	99.479	53.967	6.321	1.00	84.93	A16S
ATOM	4513	O4*	G	A	220	98.308	53.398	6.971	1.00	84.93	A16S
ATOM	4514	C1*	G	A	220	97.608	52.586	6.035	1.00	84.93	A16S
ATOM	4515	N9	G	A	220	96.252	53.084	5.853	1.00	71.25	A16S
ATOM	4516	C4	G	A	220	95.261	52.467	5.123	1.00	71.25	A16S
ATOM	4517	N3	G	A	220	95.349	51.261	4.522	1.00	71.25	A16S
ATOM	4518	C2	G	A	220	94.247	50.958	3.857	1.00	71.25	A16S
ATOM	4519	N2	G	A	220	94.155	49.794	3.205	1.00	71.25	A16S
ATOM	4520	N1	G	A	220	93.153	51.772	3.784	1.00	71.25	A16S
ATOM	4521	C6	G	A	220	93.038	53.016	4.396	1.00	71.25	A16S
ATOM	4522	O6	G	A	220	91.997	53.679	4.263	1.00	71.25	A16S
ATOM	4523	C5	G	A	220	94.209	53.351	5.117	1.00	71.25	A16S
ATOM	4524	N7	G	A	220	94.511	54.480	5.865	1.00	71.25	A16S
ATOM	4525	C8	G	A	220	95.726	54.271	6.293	1.00	71.25	A16S
ATOM	4526	C2*	G	A	220	98.308	52.752	4.690	1.00	84.93	A16S
ATOM	4527	O2*	G	A	220	99.210	51.681	4.511	1.00	84.93	A16S
ATOM	4528	C3*	G	A	220	99.033	54.081	4.871	1.00	84.93	A16S
ATOM	4529	O3*	G	A	220	100.091	54.164	3.923	1.00	84.93	A16S
ATOM	4530	P	C	A	221	99.766	54.600	2.400	1.00	52.73	A16S
ATOM	4531	O1P	C	A	221	101.067	54.620	1.684	1.00	67.24	A16S
ATOM	4532	O2P	C	A	221	98.888	55.805	2.382	1.00	67.24	A16S
ATOM	4533	O5*	C	A	221	98.920	53.402	1.794	1.00	52.73	A16S
ATOM	4534	C5*	C	A	221	99.549	52.175	1.461	1.00	52.73	A16S
ATOM	4535	C4*	C	A	221	98.609	51.329	0.664	1.00	52.73	A16S
ATOM	4536	O4*	C	A	221	97.377	51.191	1.411	1.00	52.73	A16S



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ATOM	4537	C1* C	A 221	96.272	51.214	0.524	1.00	52.73	A16S
ATOM	4538	N1 C	A 221	95.443	52.395	0.829	1.00	67.24	A16S
ATOM	4539	C6 C	A 221	95.846	53.346	1.733	1.00	67.24	A16S
ATOM	4540	C2 C	A 221	94.226	52.540	0.148	1.00	67.24	A16S
ATOM	4541	O2 C	A 221	93.877	51.644	-0.647	1.00	67.24	A16S
ATOM	4542	N3 C	A 221	93.465	53.644	0.368	1.00	67.24	A16S
ATOM	4543	C4 C	A 221	93.880	54.579	1.227	1.00	67.24	A16S
ATOM	4544	N4 C	A 221	93.118	55.666	1.380	1.00	67.24	A16S
ATOM	4545	C5 C	A 221	95.104	54.443	1.961	1.00	67.24	A16S
ATOM	4546	C2* C	A 221	96.825	51.286	-0.897	1.00	52.73	A16S
ATOM	4547	O2* C	A 221	96.913	49.983	-1.441	1.00	52.73	A16S
ATOM	4548	C3* C	A 221	98.176	51.941	-0.652	1.00	52.73	A16S
ATOM	4549	O3* C	A 221	99.122	51.717	-1.684	1.00	52.73	A16S
ATOM	4550	P U	A 222	99.438	52.899	-2.722	1.00	63.32	A16S
ATOM	4551	O1P U	A 222	100.680	52.527	-3.446	1.00	58.71	A16S
ATOM	4552	O2P U	A 222	99.371	54.195	-1.978	1.00	58.71	A16S
ATOM	4553	O5* U	A 222	98.220	52.844	-3.744	1.00	63.32	A16S
ATOM	4554	C5* U	A 222	97.861	51.615	-4.366	1.00	63.32	A16S
ATOM	4555	C4* U	A 222	96.647	51.811	-5.225	1.00	63.32	A16S
ATOM	4556	O4* U	A 222	95.487	52.046	-4.398	1.00	63.32	A16S
ATOM	4557	C1* U	A 222	94.597	52.926	-5.066	1.00	63.32	A16S
ATOM	4558	N1 U	A 222	94.347	54.083	-4.197	1.00	58.71	A16S
ATOM	4559	C6 U	A 222	95.115	54.308	-3.077	1.00	58.71	A16S
ATOM	4560	C2 U	A 222	93.300	54.923	-4.521	1.00	58.71	A16S
ATOM	4561	O2 U	A 222	92.635	54.793	-5.533	1.00	58.71	A16S
ATOM	4562	N3 U	A 222	93.067	55.929	-3.618	1.00	58.71	A16S
ATOM	4563	C4 U	A 222	93.775	56.187	-2.458	1.00	58.71	A16S
ATOM	4564	O4 U	A 222	93.410	57.097	-1.709	1.00	58.71	A16S
ATOM	4565	C5 U	A 222	94.871	55.302	-2.222	1.00	58.71	A16S
ATOM	4566	C2* U	A 222	95.206	53.272	-6.420	1.00	63.32	A16S
ATOM	4567	O2* U	A 222	94.627	52.407	-7.379	1.00	63.32	A16S
ATOM	4568	C3* U	A 222	96.686	53.000	-6.165	1.00	63.32	A16S
ATOM	4569	O3* U	A 222	97.408	52.676	-7.341	1.00	63.32	A16S
ATOM	4570	P U	A 223	98.312	53.795	-8.048	1.00	64.54	A16S
ATOM	4571	O1P U	A 223	99.211	53.048	-8.969	1.00	53.77	A16S
ATOM	4572	O2P U	A 223	98.890	54.683	-7.009	1.00	53.77	A16S
ATOM	4573	O5* U	A 223	97.259	54.619	-8.902	1.00	64.54	A16S
ATOM	4574	C5* U	A 223	96.569	53.975	-9.973	1.00	64.54	A16S
ATOM	4575	C4* U	A 223	95.489	54.864	-10.518	1.00	64.54	A16S
ATOM	4576	O4* U	A 223	94.357	54.893	-9.620	1.00	64.54	A16S
ATOM	4577	C1* U	A 223	93.747	56.171	-9.665	1.00	64.54	A16S
ATOM	4578	N1 U	A 223	93.891	56.799	-8.342	1.00	53.77	A16S
ATOM	4579	C6 U	A 223	94.922	56.455	-7.500	1.00	53.77	A16S
ATOM	4580	C2 U	A 223	92.968	57.765	-7.975	1.00	53.77	A16S
ATOM	4581	O2 U	A 223	92.013	58.073	-8.674	1.00	53.77	A16S
ATOM	4582	N3 U	A 223	93.200	58.353	-6.754	1.00	53.77	A16S
ATOM	4583	C4 U	A 223	94.222	58.063	-5.874	1.00	53.77	A16S
ATOM	4584	O4 U	A 223	94.311	58.689	-4.816	1.00	53.77	A16S
ATOM	4585	C5 U	A 223	95.111	57.036	-6.313	1.00	53.77	A16S
ATOM	4586	C2* U	A 223	94.485	56.978	-10.730	1.00	64.54	A16S
ATOM	4587	O2* U	A 223	93.860	56.772	-11.983	1.00	64.54	A16S
ATOM	4588	C3* U	A 223	95.855	56.323	-10.698	1.00	64.54	A16S
ATOM	4589	O3* U	A 223	96.610	56.560	-11.870	1.00	64.54	A16S
ATOM	4590	P C	A 224	97.680	57.759	-11.885	1.00	73.01	A16S
ATOM	4591	O1P C	A 224	98.440	57.562	-13.165	1.00	50.30	A16S
ATOM	4592	O2P C	A 224	98.416	57.834	-10.584	1.00	50.30	A16S
ATOM	4593	O5* C	A 224	96.758	59.056	-11.986	1.00	73.01	A16S
ATOM	4594	C5* C	A 224	95.851	59.202	-13.086	1.00	73.01	A16S
ATOM	4595	C4* C	A 224	94.845	60.292	-12.817	1.00	73.01	A16S
ATOM	4596	O4* C	A 224	94.053	59.971	-11.651	1.00	73.01	A16S
ATOM	4597	C1* C	A 224	93.611	61.166	-11.039	1.00	73.01	A16S
ATOM	4598	N1 C	A 224	94.103	61.207	-9.655	1.00	50.30	A16S
ATOM	4599	C6 C	A 224	95.015	60.300	-9.200	1.00	50.30	A16S
ATOM	4600	C2 C	A 224	93.622	62.216	-8.801	1.00	50.30	A16S
ATOM	4601	O2 C	A 224	92.776	63.016	-9.228	1.00	50.30	A16S
ATOM	4602	N3 C	A 224	94.086	62.293	-7.540	1.00	50.30	A16S
ATOM	4603	C4 C	A 224	94.994	61.419	-7.116	1.00	50.30	A16S
ATOM	4604	N4 C	A 224	95.459	61.566	-5.872	1.00	50.30	A16S
ATOM	4605	C5 C	A 224	95.480	60.365	-7.950	1.00	50.30	A16S
ATOM	4606	C2* C	A 224	94.159	62.329	-11.857	1.00	73.01	A16S
ATOM	4607	O2* C	A 224	93.168	62.719	-12.788	1.00	73.01	A16S
ATOM	4608	C3* C	A 224	95.362	61.687	-12.529	1.00	73.01	A16S
ATOM	4609	O3* C	A 224	95.731	62.376	-13.712	1.00	73.01	A16S
ATOM	4610	P C	A 225	96.948	63.428	-13.665	1.00	67.16	A16S
ATOM	4611	O1P C	A 225	97.374	63.645	-15.082	1.00	71.15	A16S
ATOM	4612	O2P C	A 225	97.935	62.943	-12.668	1.00	71.15	A16S
ATOM	4613	O5* C	A 225	96.296	64.754	-13.065	1.00	67.16	A16S



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ATOM	4614	C5*	C	A	225	95.243	65.435	-13.764	1.00	67.16	A16S
ATOM	4615	C4*	C	A	225	94.649	66.514	-12.897	1.00	67.16	A16S
ATOM	4616	O4*	C	A	225	94.033	65.918	-11.730	1.00	67.16	A16S
ATOM	4617	C1*	C	A	225	94.140	66.806	-10.633	1.00	67.16	A16S
ATOM	4618	N1	C	A	225	94.893	66.150	-9.568	1.00	71.15	A16S
ATOM	4619	C6	C	A	225	95.625	65.023	-9.811	1.00	71.15	A16S
ATOM	4620	C2	C	A	225	94.857	66.710	-8.288	1.00	71.15	A16S
ATOM	4621	O2	C	A	225	94.189	67.737	-8.103	1.00	71.15	A16S
ATOM	4622	N3	C	A	225	95.551	66.125	-7.291	1.00	71.15	A16S
ATOM	4623	C4	C	A	225	96.260	65.020	-7.535	1.00	71.15	A16S
ATOM	4624	N4	C	A	225	96.925	64.466	-6.517	1.00	71.15	A16S
ATOM	4625	C5	C	A	225	96.317	64.431	-8.834	1.00	71.15	A16S
ATOM	4626	C2*	C	A	225	94.874	68.052	-11.107	1.00	67.16	A16S
ATOM	4627	O2*	C	A	225	93.927	69.047	-11.434	1.00	67.16	A16S
ATOM	4628	C3*	C	A	225	95.626	67.516	-12.314	1.00	67.16	A16S
ATOM	4629	O3*	C	A	225	95.960	68.539	-13.228	1.00	67.16	A16S
ATOM	4630	P	G	A	226	97.453	69.131	-13.229	1.00	69.76	A16S
ATOM	4631	O1P	G	A	226	97.506	70.045	-14.408	1.00	64.00	A16S
ATOM	4632	O2P	G	A	226	98.409	68.001	-13.135	1.00	64.00	A16S
ATOM	4633	O5*	G	A	226	97.564	69.934	-11.855	1.00	69.76	A16S
ATOM	4634	C5*	G	A	226	96.753	71.074	-11.633	1.00	69.76	A16S
ATOM	4635	C4*	G	A	226	96.797	71.498	-10.190	1.00	69.76	A16S
ATOM	4636	O4*	G	A	226	96.304	70.445	-9.318	1.00	69.76	A16S
ATOM	4637	C1*	G	A	226	96.716	70.727	-7.989	1.00	69.76	A16S
ATOM	4638	N9	G	A	226	97.369	69.565	-7.401	1.00	64.00	A16S
ATOM	4639	C4	G	A	226	97.765	69.473	-6.089	1.00	64.00	A16S
ATOM	4640	N3	G	A	226	97.537	70.393	-5.134	1.00	64.00	A16S
ATOM	4641	C2	G	A	226	98.096	70.064	-3.991	1.00	64.00	A16S
ATOM	4642	N2	G	A	226	97.962	70.869	-2.939	1.00	64.00	A16S
ATOM	4643	N1	G	A	226	98.829	68.926	-3.794	1.00	64.00	A16S
ATOM	4644	C6	G	A	226	99.086	67.965	-4.760	1.00	64.00	A16S
ATOM	4645	O6	G	A	226	99.793	66.991	-4.483	1.00	64.00	A16S
ATOM	4646	C5	G	A	226	98.470	68.294	-5.999	1.00	64.00	A16S
ATOM	4647	N7	G	A	226	98.458	67.618	-7.215	1.00	64.00	A16S
ATOM	4648	C8	G	A	226	97.781	68.404	-8.014	1.00	64.00	A16S
ATOM	4649	C2*	G	A	226	97.753	71.848	-8.071	1.00	69.76	A16S
ATOM	4650	O2*	G	A	226	97.150	73.067	-7.683	1.00	69.76	A16S
ATOM	4651	C3*	G	A	226	98.132	71.820	-9.549	1.00	69.76	A16S
ATOM	4652	O3*	G	A	226	98.692	73.058	-9.945	1.00	69.76	A16S
ATOM	4653	P	G	A	227	100.274	73.306	-9.748	1.00	58.45	A16S
ATOM	4654	O1P	G	A	227	100.561	74.554	-10.496	1.00	67.84	A16S
ATOM	4655	O2P	G	A	227	101.075	72.079	-10.037	1.00	67.84	A16S
ATOM	4656	O5*	G	A	227	100.423	73.624	-8.198	1.00	58.45	A16S
ATOM	4657	C5*	G	A	227	99.716	74.714	-7.621	1.00	58.45	A16S
ATOM	4658	C4*	G	A	227	99.808	74.649	-6.128	1.00	58.45	A16S
ATOM	4659	O4*	G	A	227	99.319	73.361	-5.672	1.00	58.45	A16S
ATOM	4660	C1*	G	A	227	100.002	72.987	-4.489	1.00	58.45	A16S
ATOM	4661	N9	G	A	227	100.672	71.707	-4.695	1.00	67.84	A16S
ATOM	4662	C4	G	A	227	101.307	70.972	-3.723	1.00	67.84	A16S
ATOM	4663	N3	G	A	227	101.417	71.311	-2.423	1.00	67.84	A16S
ATOM	4664	C2	G	A	227	102.070	70.398	-1.731	1.00	67.84	A16S
ATOM	4665	N2	G	A	227	102.258	70.569	-0.421	1.00	67.84	A16S
ATOM	4666	N1	G	A	227	102.583	69.246	-2.271	1.00	67.84	A16S
ATOM	4667	C6	G	A	227	102.486	68.878	-3.607	1.00	67.84	A16S
ATOM	4668	O6	G	A	227	102.986	67.812	-3.993	1.00	67.84	A16S
ATOM	4669	C5	G	A	227	101.782	69.850	-4.363	1.00	67.84	A16S
ATOM	4670	N7	G	A	227	101.462	69.881	-5.712	1.00	67.84	A16S
ATOM	4671	C8	G	A	227	100.805	70.999	-5.864	1.00	67.84	A16S
ATOM	4672	C2*	G	A	227	101.010	74.085	-4.178	1.00	58.45	A16S
ATOM	4673	O2*	G	A	227	100.406	74.959	-3.249	1.00	58.45	A16S
ATOM	4674	C3*	G	A	227	101.202	74.718	-5.548	1.00	58.45	A16S
ATOM	4675	O3*	G	A	227	101.666	76.042	-5.455	1.00	58.45	A16S
ATOM	4676	P	A	A	228	103.242	76.327	-5.527	1.00	61.84	A16S
ATOM	4677	O1P	A	A	228	103.433	77.786	-5.269	1.00	65.33	A16S
ATOM	4678	O2P	A	A	228	103.757	75.719	-6.786	1.00	65.33	A16S
ATOM	4679	O5*	A	A	228	103.840	75.534	-4.282	1.00	61.84	A16S
ATOM	4680	C5*	A	A	228	103.643	76.038	-2.949	1.00	61.84	A16S
ATOM	4681	C4*	A	A	228	104.329	75.158	-1.936	1.00	61.84	A16S
ATOM	4682	O4*	A	A	228	103.727	73.838	-1.947	1.00	61.84	A16S
ATOM	4683	C1*	A	A	228	104.711	72.858	-1.677	1.00	61.84	A16S
ATOM	4684	N9	A	A	228	104.858	72.012	-2.859	1.00	65.33	A16S
ATOM	4685	C4	A	A	228	105.366	70.734	-2.889	1.00	65.33	A16S
ATOM	4686	N3	A	A	228	105.793	70.000	-1.846	1.00	65.33	A16S
ATOM	4687	C2	A	A	228	106.234	68.815	-2.257	1.00	65.33	A16S
ATOM	4688	N1	A	A	228	106.296	68.317	-3.500	1.00	65.33	A16S
ATOM	4689	C6	A	A	228	105.860	69.084	-4.528	1.00	65.33	A16S
ATOM	4690	N6	A	A	228	105.925	68.597	-5.775	1.00	65.33	A16S



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ATOM	4691	C5	A	A 228	105.364	70.360	-4.223	1.00	65.33	A16S
ATOM	4692	N7	A	A 228	104.850	71.374	-5.019	1.00	65.33	A16S
ATOM	4693	C8	A	A 228	104.559	72.327	-4.166	1.00	65.33	A16S
ATOM	4694	C2*	A	A 228	106.015	73.597	-1.399	1.00	61.84	A16S
ATOM	4695	O2*	A	A 228	106.118	73.768	-0.003	1.00	61.84	A16S
ATOM	4696	C3*	A	A 228	105.799	74.893	-2.173	1.00	61.84	A16S
ATOM	4697	O3*	A	A 228	106.622	75.976	-1.753	1.00	61.84	A16S
ATOM	4698	P	U	A 229	107.952	76.333	-2.598	1.00	62.02	A16S
ATOM	4699	O1P	U	A 229	108.465	77.632	-2.068	1.00	55.00	A16S
ATOM	4700	O2P	U	A 229	107.676	76.179	-4.066	1.00	55.00	A16S
ATOM	4701	O5*	U	A 229	108.978	75.192	-2.176	1.00	62.02	A16S
ATOM	4702	C5*	U	A 229	109.270	74.976	-0.789	1.00	62.02	A16S
ATOM	4703	C4*	U	A 229	109.980	73.665	-0.593	1.00	62.02	A16S
ATOM	4704	O4*	U	A 229	109.089	72.545	-0.816	1.00	62.02	A16S
ATOM	4705	C1*	U	A 229	109.828	71.454	-1.341	1.00	62.02	A16S
ATOM	4706	N1	U	A 229	109.380	71.175	-2.710	1.00	55.00	A16S
ATOM	4707	C6	U	A 229	108.610	72.056	-3.413	1.00	55.00	A16S
ATOM	4708	C2	U	A 229	109.800	69.989	-3.282	1.00	55.00	A16S
ATOM	4709	O2	U	A 229	110.463	69.158	-2.668	1.00	55.00	A16S
ATOM	4710	N3	U	A 229	109.422	69.807	-4.596	1.00	55.00	A16S
ATOM	4711	C4	U	A 229	108.681	70.668	-5.368	1.00	55.00	A16S
ATOM	4712	O4	U	A 229	108.518	70.428	-6.565	1.00	55.00	A16S
ATOM	4713	C5	U	A 229	108.256	71.849	-4.687	1.00	55.00	A16S
ATOM	4714	C2*	U	A 229	111.283	71.887	-1.415	1.00	62.02	A16S
ATOM	4715	O2*	U	A 229	111.924	71.486	-0.223	1.00	62.02	A16S
ATOM	4716	C3*	U	A 229	111.136	73.394	-1.528	1.00	62.02	A16S
ATOM	4717	O3*	U	A 229	112.301	74.068	-1.137	1.00	62.02	A16S
ATOM	4718	P	G	A 230	113.448	74.320	-2.221	1.00	58.85	A16S
ATOM	4719	O1P	G	A 230	114.579	74.953	-1.482	1.00	55.21	A16S
ATOM	4720	O2P	G	A 230	112.847	74.996	-3.398	1.00	55.21	A16S
ATOM	4721	O5*	G	A 230	113.862	72.859	-2.699	1.00	58.85	A16S
ATOM	4722	C5*	G	A 230	114.410	71.923	-1.768	1.00	58.85	A16S
ATOM	4723	C4*	G	A 230	114.791	70.651	-2.465	1.00	58.85	A16S
ATOM	4724	O4*	G	A 230	113.607	69.972	-2.944	1.00	58.85	A16S
ATOM	4725	C1*	G	A 230	113.899	69.315	-4.169	1.00	58.85	A16S
ATOM	4726	N9	G	A 230	113.030	69.861	-5.207	1.00	55.21	A16S
ATOM	4727	C4	G	A 230	112.714	69.267	-6.407	1.00	55.21	A16S
ATOM	4728	N3	G	A 230	113.128	68.055	-6.822	1.00	55.21	A16S
ATOM	4729	C2	G	A 230	112.631	67.744	-8.008	1.00	55.21	A16S
ATOM	4730	N2	G	A 230	112.889	66.545	-8.548	1.00	55.21	A16S
ATOM	4731	N1	G	A 230	111.835	68.575	-8.745	1.00	55.21	A16S
ATOM	4732	C6	G	A 230	111.417	69.838	-8.348	1.00	55.21	A16S
ATOM	4733	O6	G	A 230	110.715	70.530	-9.111	1.00	55.21	A16S
ATOM	4734	C5	G	A 230	111.901	70.163	-7.055	1.00	55.21	A16S
ATOM	4735	N7	G	A 230	111.691	71.292	-6.275	1.00	55.21	A16S
ATOM	4736	C8	G	A 230	112.381	71.071	-5.191	1.00	55.21	A16S
ATOM	4737	C2*	G	A 230	115.366	69.575	-4.496	1.00	58.85	A16S
ATOM	4738	O2*	G	A 230	116.154	68.492	-4.065	1.00	58.85	A16S
ATOM	4739	C3*	G	A 230	115.629	70.847	-3.706	1.00	58.85	A16S
ATOM	4740	O3*	G	A 230	116.997	71.049	-3.419	1.00	58.85	A16S
ATOM	4741	P	G	A 231	117.923	71.747	-4.527	1.00	51.68	A16S
ATOM	4742	O1P	G	A 231	119.297	71.306	-4.223	1.00	55.62	A16S
ATOM	4743	O2P	G	A 231	117.616	73.211	-4.566	1.00	55.62	A16S
ATOM	4744	O5*	G	A 231	117.392	71.050	-5.866	1.00	51.68	A16S
ATOM	4745	C5*	G	A 231	118.265	70.715	-6.955	1.00	51.68	A16S
ATOM	4746	C4*	G	A 231	117.904	69.358	-7.521	1.00	51.68	A16S
ATOM	4747	O4*	G	A 231	116.468	69.192	-7.472	1.00	51.68	A16S
ATOM	4748	C1*	G	A 231	116.012	68.565	-8.662	1.00	51.68	A16S
ATOM	4749	N9	G	A 231	115.138	69.505	-9.358	1.00	55.62	A16S
ATOM	4750	C4	G	A 231	114.599	69.343	-10.609	1.00	55.62	A16S
ATOM	4751	N3	G	A 231	114.768	68.276	-11.407	1.00	55.62	A16S
ATOM	4752	C2	G	A 231	114.121	68.407	-12.547	1.00	55.62	A16S
ATOM	4753	N2	G	A 231	114.168	67.423	-13.453	1.00	55.62	A16S
ATOM	4754	N1	G	A 231	113.383	69.506	-12.883	1.00	55.62	A16S
ATOM	4755	C6	G	A 231	113.211	70.627	-12.082	1.00	55.62	A16S
ATOM	4756	O6	G	A 231	112.551	71.589	-12.495	1.00	55.62	A16S
ATOM	4757	C5	G	A 231	113.876	70.487	-10.846	1.00	55.62	A16S
ATOM	4758	N7	G	A 231	113.941	71.348	-9.760	1.00	55.62	A16S
ATOM	4759	C8	G	A 231	114.701	70.725	-8.904	1.00	55.62	A16S
ATOM	4760	C2*	G	A 231	117.236	68.194	-9.498	1.00	51.68	A16S
ATOM	4761	O2*	G	A 231	117.629	66.855	-9.306	1.00	51.68	A16S
ATOM	4762	C3*	G	A 231	118.261	69.192	-8.990	1.00	51.68	A16S
ATOM	4763	O3*	G	A 231	119.594	68.778	-9.237	1.00	51.68	A16S
ATOM	4764	P	G	A 232	120.370	69.376	-10.519	1.00	44.71	A16S
ATOM	4765	O1P	G	A 232	121.789	68.941	-10.371	1.00	54.00	A16S
ATOM	4766	O2P	G	A 232	120.058	70.842	-10.635	1.00	54.00	A16S
ATOM	4767	O5*	G	A 232	119.710	68.610	-11.761	1.00	44.71	A16S



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ATOM	4768	C5*	G	A	232	119.812	67.180	-11.875	1.00	44.71	A16S
ATOM	4769	C4*	G	A	232	119.317	66.713	-13.219	1.00	44.71	A16S
ATOM	4770	O4*	G	A	232	117.885	66.878	-13.291	1.00	44.71	A16S
ATOM	4771	C1*	G	A	232	117.516	67.307	-14.589	1.00	44.71	A16S
ATOM	4772	N9	G	A	232	116.963	68.650	-14.458	1.00	54.00	A16S
ATOM	4773	C4	G	A	232	116.138	69.305	-15.339	1.00	54.00	A16S
ATOM	4774	N3	G	A	232	115.704	68.833	-16.526	1.00	54.00	A16S
ATOM	4775	C2	G	A	232	114.908	69.698	-17.140	1.00	54.00	A16S
ATOM	4776	N2	G	A	232	114.376	69.398	-18.339	1.00	54.00	A16S
ATOM	4777	N1	G	A	232	114.568	70.923	-16.625	1.00	54.00	A16S
ATOM	4778	C6	G	A	232	114.994	71.424	-15.399	1.00	54.00	A16S
ATOM	4779	O6	G	A	232	114.602	72.547	-15.008	1.00	54.00	A16S
ATOM	4780	C5	G	A	232	115.854	70.511	-14.740	1.00	54.00	A16S
ATOM	4781	N7	G	A	232	116.502	70.620	-13.520	1.00	54.00	A16S
ATOM	4782	C8	G	A	232	117.152	69.502	-13.399	1.00	54.00	A16S
ATOM	4783	C2*	G	A	232	118.774	67.281	-15.446	1.00	44.71	A16S
ATOM	4784	O2*	G	A	232	118.919	66.010	-16.016	1.00	44.71	A16S
ATOM	4785	C3*	G	A	232	119.849	67.486	-14.404	1.00	44.71	A16S
ATOM	4786	O3*	G	A	232	121.098	67.005	-14.852	1.00	44.71	A16S
ATOM	4787	P	C	A	233	122.173	68.054	-15.420	1.00	50.76	A16S
ATOM	4788	O1P	C	A	233	123.438	67.314	-15.734	1.00	54.52	A16S
ATOM	4789	O2P	C	A	233	122.203	69.210	-14.466	1.00	54.52	A16S
ATOM	4790	O5*	C	A	233	121.518	68.531	-16.785	1.00	50.76	A16S
ATOM	4791	C5*	C	A	233	121.285	67.579	-17.801	1.00	50.76	A16S
ATOM	4792	C4*	C	A	233	120.414	68.158	-18.863	1.00	50.76	A16S
ATOM	4793	O4*	C	A	233	119.100	68.426	-18.334	1.00	50.76	A16S
ATOM	4794	C1*	C	A	233	118.558	69.572	-18.963	1.00	50.76	A16S
ATOM	4795	N1	C	A	233	118.349	70.608	-17.938	1.00	54.52	A16S
ATOM	4796	C6	C	A	233	118.851	70.453	-16.676	1.00	54.52	A16S
ATOM	4797	C2	C	A	233	117.635	71.771	-18.278	1.00	54.52	A16S
ATOM	4798	O2	C	A	233	117.193	71.897	-19.438	1.00	54.52	A16S
ATOM	4799	N3	C	A	233	117.452	72.727	-17.337	1.00	54.52	A16S
ATOM	4800	C4	C	A	233	117.946	72.557	-16.109	1.00	54.52	A16S
ATOM	4801	N4	C	A	233	117.737	73.516	-15.211	1.00	54.52	A16S
ATOM	4802	C5	C	A	233	118.676	71.392	-15.743	1.00	54.52	A16S
ATOM	4803	C2*	C	A	233	119.576	70.025	-20.000	1.00	50.76	A16S
ATOM	4804	O2*	C	A	233	119.304	69.366	-21.215	1.00	50.76	A16S
ATOM	4805	C3*	C	A	233	120.860	69.488	-19.407	1.00	50.76	A16S
ATOM	4806	O3*	C	A	233	121.844	69.325	-20.390	1.00	50.76	A16S
ATOM	4807	P	C	A	234	122.857	70.531	-20.681	1.00	60.30	A16S
ATOM	4808	O1P	C	A	234	123.817	69.997	-21.686	1.00	50.90	A16S
ATOM	4809	O2P	C	A	234	123.362	71.096	-19.385	1.00	50.90	A16S
ATOM	4810	O5*	C	A	234	121.938	71.615	-21.394	1.00	60.30	A16S
ATOM	4811	C5*	C	A	234	121.340	71.324	-22.658	1.00	60.30	A16S
ATOM	4812	C4*	C	A	234	120.586	72.519	-23.160	1.00	60.30	A16S
ATOM	4813	O4*	C	A	234	119.435	72.757	-22.315	1.00	60.30	A16S
ATOM	4814	C1*	C	A	234	119.220	74.149	-22.177	1.00	60.30	A16S
ATOM	4815	N1	C	A	234	119.495	74.503	-20.788	1.00	50.90	A16S
ATOM	4816	C6	C	A	234	120.243	73.678	-19.997	1.00	50.90	A16S
ATOM	4817	C2	C	A	234	119.004	75.710	-20.289	1.00	50.90	A16S
ATOM	4818	O2	C	A	234	118.294	76.423	-21.025	1.00	50.90	A16S
ATOM	4819	N3	C	A	234	119.313	76.076	-19.020	1.00	50.90	A16S
ATOM	4820	C4	C	A	234	120.081	75.277	-18.265	1.00	50.90	A16S
ATOM	4821	N4	C	A	234	120.419	75.696	-17.034	1.00	50.90	A16S
ATOM	4822	C5	C	A	234	120.556	74.018	-18.745	1.00	50.90	A16S
ATOM	4823	C2*	C	A	234	120.225	74.851	-23.081	1.00	60.30	A16S
ATOM	4824	O2*	C	A	234	119.625	75.073	-24.344	1.00	60.30	A16S
ATOM	4825	C3*	C	A	234	121.345	73.825	-23.108	1.00	60.30	A16S
ATOM	4826	O3*	C	A	234	122.247	73.967	-24.176	1.00	60.30	A16S
ATOM	4827	P	C	A	235	123.604	74.788	-23.938	1.00	48.53	A16S
ATOM	4828	O1P	C	A	235	124.439	74.461	-25.129	1.00	55.56	A16S
ATOM	4829	O2P	C	A	235	124.130	74.510	-22.557	1.00	55.56	A16S
ATOM	4830	O5*	C	A	235	123.124	76.314	-23.976	1.00	48.53	A16S
ATOM	4831	C5*	C	A	235	122.415	76.828	-25.116	1.00	48.53	A16S
ATOM	4832	C4*	C	A	235	121.824	78.177	-24.817	1.00	48.53	A16S
ATOM	4833	O4*	C	A	235	120.895	78.059	-23.723	1.00	48.53	A16S
ATOM	4834	C1*	C	A	235	120.879	79.262	-22.976	1.00	48.53	A16S
ATOM	4835	N1	C	A	235	121.275	78.973	-21.588	1.00	55.56	A16S
ATOM	4836	C6	C	A	235	121.755	77.748	-21.231	1.00	55.56	A16S
ATOM	4837	C2	C	A	235	121.163	79.987	-20.635	1.00	55.56	A16S
ATOM	4838	O2	C	A	235	120.719	81.087	-20.982	1.00	55.56	A16S
ATOM	4839	N3	C	A	235	121.543	79.748	-19.365	1.00	55.56	A16S
ATOM	4840	C4	C	A	235	122.022	78.551	-19.029	1.00	55.56	A16S
ATOM	4841	N4	C	A	235	122.409	78.361	-17.761	1.00	55.56	A16S
ATOM	4842	C5	C	A	235	122.136	77.497	-19.974	1.00	55.56	A16S
ATOM	4843	C2*	C	A	235	121.867	80.225	-23.628	1.00	48.53	A16S
ATOM	4844	O2*	C	A	235	121.184	81.151	-24.461	1.00	48.53	A16S



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ATOM	4845	C3* C	A 235	122.779	79.263	-24.371	1.00	48.53	A16S
ATOM	4846	O3* C	A 235	123.397	79.911	-25.462	1.00	48.53	A16S
ATOM	4847	P G	A 236	124.828	80.616	-25.256	1.00	53.80	A16S
ATOM	4848	O1P G	A 236	125.471	80.653	-26.613	1.00	44.75	A16S
ATOM	4849	O2P G	A 236	125.526	79.924	-24.121	1.00	44.75	A16S
ATOM	4850	O5* G	A 236	124.476	82.092	-24.766	1.00	53.80	A16S
ATOM	4851	C5* G	A 236	123.827	83.027	-25.625	1.00	53.80	A16S
ATOM	4852	C4* G	A 236	123.715	84.357	-24.928	1.00	53.80	A16S
ATOM	4853	O4* G	A 236	122.810	84.244	-23.807	1.00	53.80	A16S
ATOM	4854	C1* G	A 236	123.250	85.070	-22.744	1.00	53.80	A16S
ATOM	4855	N9 G	A 236	123.553	84.204	-21.620	1.00	44.75	A16S
ATOM	4856	C4 G	A 236	123.709	84.556	-20.296	1.00	44.75	A16S
ATOM	4857	N3 G	A 236	123.585	85.794	-19.774	1.00	44.75	A16S
ATOM	4858	C2 G	A 236	123.805	85.801	-18.464	1.00	44.75	A16S
ATOM	4859	N2 G	A 236	123.710	86.940	-17.764	1.00	44.75	A16S
ATOM	4860	N1 G	A 236	124.127	84.695	-17.737	1.00	44.75	A16S
ATOM	4861	C6 G	A 236	124.258	83.414	-18.248	1.00	44.75	A16S
ATOM	4862	O6 G	A 236	124.548	82.465	-17.489	1.00	44.75	A16S
ATOM	4863	C5 G	A 236	124.020	83.386	-19.647	1.00	44.75	A16S
ATOM	4864	N7 G	A 236	124.044	82.323	-20.537	1.00	44.75	A16S
ATOM	4865	C8 G	A 236	123.761	82.855	-21.689	1.00	44.75	A16S
ATOM	4866	C2* G	A 236	124.506	85.794	-23.212	1.00	53.80	A16S
ATOM	4867	O2* G	A 236	124.154	87.072	-23.689	1.00	53.80	A16S
ATOM	4868	C3* G	A 236	125.000	84.870	-24.311	1.00	53.80	A16S
ATOM	4869	O3* G	A 236	125.804	85.551	-25.254	1.00	53.80	A16S
ATOM	4870	P C	A 237	127.385	85.310	-25.245	1.00	53.69	A16S
ATOM	4871	O1P C	A 237	127.927	85.977	-26.461	1.00	51.98	A16S
ATOM	4872	O2P C	A 237	127.571	83.855	-25.062	1.00	51.98	A16S
ATOM	4873	O5* C	A 237	127.893	86.057	-23.931	1.00	53.69	A16S
ATOM	4874	C5* C	A 237	127.784	87.483	-23.833	1.00	53.69	A16S
ATOM	4875	C4* C	A 237	127.839	87.938	-22.393	1.00	53.69	A16S
ATOM	4876	O4* C	A 237	126.750	87.358	-21.630	1.00	53.69	A16S
ATOM	4877	C1* C	A 237	127.158	87.186	-20.282	1.00	53.69	A16S
ATOM	4878	N1 C	A 237	127.170	85.754	-19.977	1.00	51.98	A16S
ATOM	4879	C6 C	A 237	127.147	84.821	-20.973	1.00	51.98	A16S
ATOM	4880	C2 C	A 237	127.248	85.357	-18.642	1.00	51.98	A16S
ATOM	4881	O2 C	A 237	127.223	86.225	-17.758	1.00	51.98	A16S
ATOM	4882	N3 C	A 237	127.348	84.043	-18.349	1.00	51.98	A16S
ATOM	4883	C4 C	A 237	127.360	83.144	-19.331	1.00	51.98	A16S
ATOM	4884	N4 C	A 237	127.493	81.869	-19.006	1.00	51.98	A16S
ATOM	4885	C5 C	A 237	127.244	83.518	-20.695	1.00	51.98	A16S
ATOM	4886	C2* C	A 237	128.585	87.712	-20.161	1.00	53.69	A16S
ATOM	4887	O2* C	A 237	128.559	89.056	-19.731	1.00	53.69	A16S
ATOM	4888	C3* C	A 237	129.073	87.571	-21.591	1.00	53.69	A16S
ATOM	4889	O3* C	A 237	130.151	88.431	-21.848	1.00	53.69	A16S
ATOM	4890	P G	A 238	131.613	87.810	-21.989	1.00	44.97	A16S
ATOM	4891	O1P G	A 238	132.418	88.852	-22.657	1.00	46.20	A16S
ATOM	4892	O2P G	A 238	131.479	86.472	-22.623	1.00	46.20	A16S
ATOM	4893	O5* G	A 238	132.104	87.631	-20.484	1.00	44.97	A16S
ATOM	4894	C5* G	A 238	132.313	88.779	-19.666	1.00	44.97	A16S
ATOM	4895	C4* G	A 238	132.531	88.390	-18.223	1.00	44.97	A16S
ATOM	4896	O4* G	A 238	131.356	87.718	-17.691	1.00	44.97	A16S
ATOM	4897	C1* G	A 238	131.748	86.779	-16.688	1.00	44.97	A16S
ATOM	4898	N9 G	A 238	131.315	85.441	-17.111	1.00	46.20	A16S
ATOM	4899	C4 G	A 238	131.231	84.305	-16.330	1.00	46.20	A16S
ATOM	4900	N3 G	A 238	131.528	84.212	-15.017	1.00	46.20	A16S
ATOM	4901	C2 G	A 238	131.338	82.981	-14.556	1.00	46.20	A16S
ATOM	4902	N2 G	A 238	131.569	82.703	-13.278	1.00	46.20	A16S
ATOM	4903	N1 G	A 238	130.906	81.937	-15.314	1.00	46.20	A16S
ATOM	4904	C6 G	A 238	130.600	82.008	-16.664	1.00	46.20	A16S
ATOM	4905	O6 G	A 238	130.230	81.000	-17.261	1.00	46.20	A16S
ATOM	4906	C5 G	A 238	130.782	83.313	-17.176	1.00	46.20	A16S
ATOM	4907	N7 G	A 238	130.581	83.806	-18.457	1.00	46.20	A16S
ATOM	4908	C8 G	A 238	130.909	85.067	-18.372	1.00	46.20	A16S
ATOM	4909	C2* G	A 238	133.265	86.905	-16.536	1.00	44.97	A16S
ATOM	4910	O2* G	A 238	133.583	87.860	-15.536	1.00	44.97	A16S
ATOM	4911	C3* G	A 238	133.660	87.429	-17.909	1.00	44.97	A16S
ATOM	4912	O3* G	A 238	134.932	88.030	-17.898	1.00	44.97	A16S
ATOM	4913	P U	A 239	136.162	87.216	-18.520	1.00	56.43	A16S
ATOM	4914	O1P U	A 239	137.324	88.136	-18.555	1.00	51.94	A16S
ATOM	4915	O2P U	A 239	135.721	86.519	-19.767	1.00	51.94	A16S
ATOM	4916	O5* U	A 239	136.462	86.104	-17.434	1.00	56.43	A16S
ATOM	4917	C5* U	A 239	136.930	86.471	-16.142	1.00	56.43	A16S
ATOM	4918	C4* U	A 239	137.084	85.247	-15.294	1.00	56.43	A16S
ATOM	4919	O4* U	A 239	135.783	84.649	-15.086	1.00	56.43	A16S
ATOM	4920	C1* U	A 239	135.925	83.244	-14.995	1.00	56.43	A16S
ATOM	4921	N1 U	A 239	135.110	82.600	-16.035	1.00	51.94	A16S



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ATOM	4922	C6	U	A	239	134.955	83.146	-17.278	1.00	51.94	A16S
ATOM	4923	C2	U	A	239	134.511	81.405	-15.710	1.00	51.94	A16S
ATOM	4924	O2	U	A	239	134.626	80.884	-14.605	1.00	51.94	A16S
ATOM	4925	N3	U	A	239	133.775	80.831	-16.719	1.00	51.94	A16S
ATOM	4926	C4	U	A	239	133.588	81.318	-17.987	1.00	51.94	A16S
ATOM	4927	O4	U	A	239	132.939	80.659	-18.803	1.00	51.94	A16S
ATOM	4928	C5	U	A	239	134.234	82.561	-18.239	1.00	51.94	A16S
ATOM	4929	C2*	U	A	239	137.408	82.912	-15.135	1.00	56.43	A16S
ATOM	4930	O2*	U	A	239	137.957	82.838	-13.834	1.00	56.43	A16S
ATOM	4931	C3*	U	A	239	137.924	84.127	-15.889	1.00	56.43	A16S
ATOM	4932	O3*	U	A	239	139.311	84.320	-15.658	1.00	56.43	A16S
ATOM	4933	P	C	A	240	140.295	84.576	-16.903	1.00	63.01	A16S
ATOM	4934	O1P	C	A	240	140.184	86.032	-17.208	1.00	39.87	A16S
ATOM	4935	O2P	C	A	240	140.024	83.579	-17.973	1.00	39.87	A16S
ATOM	4936	O5*	C	A	240	141.744	84.286	-16.306	1.00	63.01	A16S
ATOM	4937	C5*	C	A	240	142.258	85.071	-15.219	1.00	63.01	A16S
ATOM	4938	C4*	C	A	240	143.639	84.600	-14.833	1.00	63.01	A16S
ATOM	4939	O4*	C	A	240	143.560	83.273	-14.263	1.00	63.01	A16S
ATOM	4940	C1*	C	A	240	144.691	82.516	-14.655	1.00	63.01	A16S
ATOM	4941	N1	C	A	240	144.224	81.433	-15.534	1.00	39.87	A16S
ATOM	4942	C6	C	A	240	143.084	81.577	-16.275	1.00	39.87	A16S
ATOM	4943	C2	C	A	240	144.958	80.261	-15.604	1.00	39.87	A16S
ATOM	4944	O2	C	A	240	145.989	80.174	-14.941	1.00	39.87	A16S
ATOM	4945	N3	C	A	240	144.528	79.254	-16.398	1.00	39.87	A16S
ATOM	4946	C4	C	A	240	143.404	79.398	-17.102	1.00	39.87	A16S
ATOM	4947	N4	C	A	240	142.985	78.376	-17.850	1.00	39.87	A16S
ATOM	4948	C5	C	A	240	142.646	80.597	-17.064	1.00	39.87	A16S
ATOM	4949	C2*	C	A	240	145.626	83.456	-15.405	1.00	63.01	A16S
ATOM	4950	O2*	C	A	240	146.504	84.061	-14.486	1.00	63.01	A16S
ATOM	4951	C3*	C	A	240	144.642	84.463	-15.963	1.00	63.01	A16S
ATOM	4952	O3*	C	A	240	145.272	85.685	-16.263	1.00	63.01	A16S
ATOM	4953	P	C	A	241	145.990	85.865	-17.684	1.00	50.98	A16S
ATOM	4954	O1P	C	A	241	146.465	87.269	-17.654	1.00	45.19	A16S
ATOM	4955	O2P	C	A	241	145.112	85.403	-18.798	1.00	45.19	A16S
ATOM	4956	O5*	C	A	241	147.224	84.857	-17.595	1.00	50.98	A16S
ATOM	4957	C5*	C	A	241	148.314	85.120	-16.687	1.00	50.98	A16S
ATOM	4958	C4*	C	A	241	149.457	84.174	-16.940	1.00	50.98	A16S
ATOM	4959	O4*	C	A	241	149.087	82.842	-16.516	1.00	50.98	A16S
ATOM	4960	C1*	C	A	241	149.612	81.890	-17.417	1.00	50.98	A16S
ATOM	4961	N1	C	A	241	148.479	81.219	-18.087	1.00	45.19	A16S
ATOM	4962	C6	C	A	241	147.252	81.819	-18.158	1.00	45.19	A16S
ATOM	4963	C2	C	A	241	148.673	79.952	-18.652	1.00	45.19	A16S
ATOM	4964	O2	C	A	241	149.795	79.440	-18.594	1.00	45.19	A16S
ATOM	4965	N3	C	A	241	147.636	79.321	-19.250	1.00	45.19	A16S
ATOM	4966	C4	C	A	241	146.445	79.912	-19.304	1.00	45.19	A16S
ATOM	4967	N4	C	A	241	145.450	79.263	-19.897	1.00	45.19	A16S
ATOM	4968	C5	C	A	241	146.218	81.207	-18.751	1.00	45.19	A16S
ATOM	4969	C2*	C	A	241	150.502	82.649	-18.396	1.00	50.98	A16S
ATOM	4970	O2*	C	A	241	151.804	82.715	-17.861	1.00	50.98	A16S
ATOM	4971	C3*	C	A	241	149.849	84.015	-18.389	1.00	50.98	A16S
ATOM	4972	O3*	C	A	241	150.731	85.027	-18.809	1.00	50.98	A16S
ATOM	4973	P	C	A	242	150.766	85.437	-20.360	1.00	58.32	A16S
ATOM	4974	O1P	C	A	242	151.657	86.615	-20.485	1.00	59.61	A16S
ATOM	4975	O2P	C	A	242	149.368	85.507	-20.857	1.00	59.61	A16S
ATOM	4976	O5*	C	A	242	151.509	84.223	-21.060	1.00	58.32	A16S
ATOM	4977	C5*	C	A	242	152.879	83.987	-20.778	1.00	58.32	A16S
ATOM	4978	C4*	C	A	242	153.383	82.850	-21.603	1.00	58.32	A16S
ATOM	4979	O4*	C	A	242	152.763	81.619	-21.171	1.00	58.32	A16S
ATOM	4980	C1*	C	A	242	152.582	80.764	-22.289	1.00	58.32	A16S
ATOM	4981	N1	C	A	242	151.154	80.454	-22.412	1.00	59.61	A16S
ATOM	4982	C6	C	A	242	150.208	81.364	-22.043	1.00	59.61	A16S
ATOM	4983	C2	C	A	242	150.778	79.215	-22.927	1.00	59.61	A16S
ATOM	4984	O2	C	A	242	151.657	78.402	-23.236	1.00	59.61	A16S
ATOM	4985	N3	C	A	242	149.474	78.934	-23.074	1.00	59.61	A16S
ATOM	4986	C4	C	A	242	148.560	79.833	-22.719	1.00	59.61	A16S
ATOM	4987	N4	C	A	242	147.282	79.520	-22.884	1.00	59.61	A16S
ATOM	4988	C5	C	A	242	148.915	81.097	-22.180	1.00	59.61	A16S
ATOM	4989	C2*	C	A	242	153.102	81.493	-23.530	1.00	58.32	A16S
ATOM	4990	O2*	C	A	242	154.410	81.060	-23.842	1.00	58.32	A16S
ATOM	4991	C3*	C	A	242	153.052	82.942	-23.074	1.00	58.32	A16S
ATOM	4992	O3*	C	A	242	153.984	83.738	-23.756	1.00	58.32	A16S
ATOM	4993	P	A	A	243	153.504	84.551	-25.039	1.00	44.65	A16S
ATOM	4994	O1P	A	A	243	154.707	85.116	-25.720	1.00	55.42	A16S
ATOM	4995	O2P	A	A	243	152.413	85.454	-24.598	1.00	55.42	A16S
ATOM	4996	O5*	A	A	243	152.902	83.422	-25.969	1.00	44.65	A16S
ATOM	4997	C5*	A	A	243	153.767	82.444	-26.512	1.00	44.65	A16S
ATOM	4998	C4*	A	A	243	153.476	82.281	-27.959	1.00	44.65	A16S



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ATOM	4999	O4*	A	A 243	152.084	81.975	-28.033	1.00	44.65	A16S
ATOM	5000	C1*	A	A 243	151.674	82.201	-29.348	1.00	44.65	A16S
ATOM	5001	N9	A	A 243	150.219	82.147	-29.374	1.00	55.42	A16S
ATOM	5002	C4	A	A 243	149.517	81.088	-29.883	1.00	55.42	A16S
ATOM	5003	N3	A	A 243	150.020	79.999	-30.483	1.00	55.42	A16S
ATOM	5004	C2	A	A 243	149.049	79.154	-30.799	1.00	55.42	A16S
ATOM	5005	N1	A	A 243	147.734	79.271	-30.605	1.00	55.42	A16S
ATOM	5006	C6	A	A 243	147.270	80.386	-30.010	1.00	55.42	A16S
ATOM	5007	N6	A	A 243	145.966	80.513	-29.834	1.00	55.42	A16S
ATOM	5008	C5	A	A 243	148.196	81.351	-29.619	1.00	55.42	A16S
ATOM	5009	N7	A	A 243	148.057	82.575	-28.986	1.00	55.42	A16S
ATOM	5010	C8	A	A 243	149.287	83.014	-28.880	1.00	55.42	A16S
ATOM	5011	C2*	A	A 243	152.431	83.432	-29.851	1.00	44.65	A16S
ATOM	5012	O2*	A	A 243	152.678	83.124	-31.205	1.00	44.65	A16S
ATOM	5013	C3*	A	A 243	153.605	83.525	-28.830	1.00	44.65	A16S
ATOM	5014	O3*	A	A 243	155.000	83.871	-29.146	1.00	44.65	A16S
ATOM	5015	P	U	A 244	155.797	83.228	-30.415	1.00	46.96	A16S
ATOM	5016	O1P	U	A 244	156.819	84.226	-30.839	1.00	63.70	A16S
ATOM	5017	O2P	U	A 244	154.917	82.612	-31.423	1.00	63.70	A16S
ATOM	5018	O5*	U	A 244	156.615	82.007	-29.834	1.00	46.96	A16S
ATOM	5019	C5*	U	A 244	156.402	81.587	-28.513	1.00	46.96	A16S
ATOM	5020	C4*	U	A 244	156.907	80.196	-28.321	1.00	46.96	A16S
ATOM	5021	O4*	U	A 244	158.224	80.089	-28.910	1.00	46.96	A16S
ATOM	5022	C1*	U	A 244	159.173	79.836	-27.908	1.00	46.96	A16S
ATOM	5023	N1	U	A 244	160.380	80.612	-28.221	1.00	63.70	A16S
ATOM	5024	C6	U	A 244	160.293	81.892	-28.705	1.00	63.70	A16S
ATOM	5025	C2	U	A 244	161.610	80.019	-28.005	1.00	63.70	A16S
ATOM	5026	O2	U	A 244	161.735	78.883	-27.576	1.00	63.70	A16S
ATOM	5027	N3	U	A 244	162.696	80.805	-28.305	1.00	63.70	A16S
ATOM	5028	C4	U	A 244	162.676	82.095	-28.786	1.00	63.70	A16S
ATOM	5029	O4	U	A 244	163.734	82.668	-29.028	1.00	63.70	A16S
ATOM	5030	C5	U	A 244	161.371	82.635	-28.984	1.00	63.70	A16S
ATOM	5031	C2*	U	A 244	158.518	80.229	-26.580	1.00	46.96	A16S
ATOM	5032	O2*	U	A 244	159.041	79.513	-25.475	1.00	46.96	A16S
ATOM	5033	C3*	U	A 244	157.051	79.907	-26.843	1.00	46.96	A16S
ATOM	5034	O3*	U	A 244	156.732	78.547	-26.591	1.00	46.96	A16S
ATOM	5035	P	C	A 245	155.206	78.135	-26.321	1.00	48.57	A16S
ATOM	5036	O1P	C	A 245	154.541	79.339	-25.738	1.00	53.65	A16S
ATOM	5037	O2P	C	A 245	155.170	76.836	-25.573	1.00	53.65	A16S
ATOM	5038	O5*	C	A 245	154.608	77.903	-27.782	1.00	48.57	A16S
ATOM	5039	C5*	C	A 245	154.887	76.696	-28.482	1.00	48.57	A16S
ATOM	5040	C4*	C	A 245	153.627	76.100	-29.045	1.00	48.57	A16S
ATOM	5041	O4*	C	A 245	152.606	76.029	-28.017	1.00	48.57	A16S
ATOM	5042	C1*	C	A 245	151.328	76.169	-28.624	1.00	48.57	A16S
ATOM	5043	N1	C	A 245	150.627	77.348	-28.074	1.00	53.65	A16S
ATOM	5044	C6	C	A 245	151.304	78.340	-27.424	1.00	53.65	A16S
ATOM	5045	C2	C	A 245	149.232	77.449	-28.256	1.00	53.65	A16S
ATOM	5046	O2	C	A 245	148.631	76.532	-28.834	1.00	53.65	A16S
ATOM	5047	N3	C	A 245	148.583	78.543	-27.806	1.00	53.65	A16S
ATOM	5048	C4	C	A 245	149.261	79.513	-27.199	1.00	53.65	A16S
ATOM	5049	N4	C	A 245	148.589	80.588	-26.804	1.00	53.65	A16S
ATOM	5050	C5	C	A 245	150.668	79.429	-26.977	1.00	53.65	A16S
ATOM	5051	C2*	C	A 245	151.541	76.341	-30.128	1.00	48.57	A16S
ATOM	5052	O2*	C	A 245	151.395	75.090	-30.771	1.00	48.57	A16S
ATOM	5053	C3*	C	A 245	152.970	76.857	-30.185	1.00	48.57	A16S
ATOM	5054	O3*	C	A 245	153.560	76.533	-31.433	1.00	48.57	A16S
ATOM	5055	P	A	A 246	153.363	77.516	-32.692	1.00	48.65	A16S
ATOM	5056	O1P	A	A 246	154.214	76.947	-33.775	1.00	51.32	A16S
ATOM	5057	O2P	A	A 246	153.530	78.921	-32.278	1.00	51.32	A16S
ATOM	5058	O5*	A	A 246	151.833	77.397	-33.113	1.00	48.65	A16S
ATOM	5059	C5*	A	A 246	151.312	76.179	-33.654	1.00	48.65	A16S
ATOM	5060	C4*	A	A 246	150.327	76.470	-34.758	1.00	48.65	A16S
ATOM	5061	O4*	A	A 246	149.158	77.136	-34.221	1.00	48.65	A16S
ATOM	5062	C1*	A	A 246	148.845	78.223	-35.047	1.00	48.65	A16S
ATOM	5063	N9	A	A 246	148.118	79.239	-34.295	1.00	51.32	A16S
ATOM	5064	C4	A	A 246	146.754	79.366	-34.294	1.00	51.32	A16S
ATOM	5065	N3	A	A 246	145.866	78.566	-34.906	1.00	51.32	A16S
ATOM	5066	C2	A	A 246	144.637	79.027	-34.751	1.00	51.32	A16S
ATOM	5067	N1	A	A 246	144.221	80.111	-34.099	1.00	51.32	A16S
ATOM	5068	C6	A	A 246	145.140	80.893	-33.486	1.00	51.32	A16S
ATOM	5069	N6	A	A 246	144.721	81.997	-32.842	1.00	51.32	A16S
ATOM	5070	C5	A	A 246	146.485	80.503	-33.575	1.00	51.32	A16S
ATOM	5071	N7	A	A 246	147.654	81.058	-33.082	1.00	51.32	A16S
ATOM	5072	C8	A	A 246	148.591	80.264	-33.528	1.00	51.32	A16S
ATOM	5073	C2*	A	A 246	150.161	78.671	-35.666	1.00	48.65	A16S
ATOM	5074	O2*	A	A 246	149.869	79.353	-36.869	1.00	48.65	A16S
ATOM	5075	C3*	A	A 246	150.816	77.326	-35.923	1.00	48.65	A16S



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ATOM	5076	O3*	A	A 246	150.194	76.832	-37.089	1.00	48.65	A16S
ATOM	5077	P	G	A 247	151.074	76.168	-38.245	1.00	62.44	A16S
ATOM	5078	O1P	G	A 247	151.743	74.987	-37.608	1.00	57.47	A16S
ATOM	5079	O2P	G	A 247	151.897	77.236	-38.878	1.00	57.47	A16S
ATOM	5080	O5*	G	A 247	149.970	75.681	-39.292	1.00	62.44	A16S
ATOM	5081	C5*	G	A 247	149.154	74.511	-39.032	1.00	62.44	A16S
ATOM	5082	C4*	G	A 247	148.375	74.682	-37.745	1.00	62.44	A16S
ATOM	5083	O4*	G	A 247	147.666	75.952	-37.766	1.00	62.44	A16S
ATOM	5084	C1*	G	A 247	146.387	75.799	-37.167	1.00	62.44	A16S
ATOM	5085	N9	G	A 247	145.376	75.949	-38.215	1.00	57.47	A16S
ATOM	5086	C4	G	A 247	144.015	75.923	-38.047	1.00	57.47	A16S
ATOM	5087	N3	G	A 247	143.365	75.815	-36.872	1.00	57.47	A16S
ATOM	5088	C2	G	A 247	142.053	75.790	-37.030	1.00	57.47	A16S
ATOM	5089	N2	G	A 247	141.261	75.717	-35.955	1.00	57.47	A16S
ATOM	5090	N1	G	A 247	141.425	75.843	-38.253	1.00	57.47	A16S
ATOM	5091	C6	G	A 247	142.073	75.953	-39.480	1.00	57.47	A16S
ATOM	5092	O6	G	A 247	141.413	75.990	-40.532	1.00	57.47	A16S
ATOM	5093	C5	G	A 247	143.486	76.004	-39.319	1.00	57.47	A16S
ATOM	5094	N7	G	A 247	144.493	76.125	-40.265	1.00	57.47	A16S
ATOM	5095	C8	G	A 247	145.594	76.097	-39.565	1.00	57.47	A16S
ATOM	5096	C2*	G	A 247	146.345	74.393	-36.567	1.00	62.44	A16S
ATOM	5097	O2*	G	A 247	146.819	74.438	-35.236	1.00	62.44	A16S
ATOM	5098	C3*	G	A 247	147.294	73.646	-37.491	1.00	62.44	A16S
ATOM	5099	O3*	G	A 247	147.795	72.442	-36.927	1.00	62.44	A16S
ATOM	5100	P	C	A 248	147.095	71.040	-37.307	1.00	54.04	A16S
ATOM	5101	O1P	C	A 248	147.970	69.959	-36.813	1.00	67.10	A16S
ATOM	5102	O2P	C	A 248	146.687	71.063	-38.734	1.00	67.10	A16S
ATOM	5103	O5*	C	A 248	145.778	71.013	-36.425	1.00	54.04	A16S
ATOM	5104	C5*	C	A 248	145.881	71.095	-35.008	1.00	54.04	A16S
ATOM	5105	C4*	C	A 248	144.526	70.984	-34.375	1.00	54.04	A16S
ATOM	5106	O4*	C	A 248	143.753	72.175	-34.654	1.00	54.04	A16S
ATOM	5107	C1*	C	A 248	142.386	71.830	-34.754	1.00	54.04	A16S
ATOM	5108	N1	C	A 248	141.905	72.158	-36.097	1.00	67.10	A16S
ATOM	5109	C6	C	A 248	142.766	72.356	-37.134	1.00	67.10	A16S
ATOM	5110	C2	C	A 248	140.543	72.252	-36.293	1.00	67.10	A16S
ATOM	5111	O2	C	A 248	139.793	72.082	-35.325	1.00	67.10	A16S
ATOM	5112	N3	C	A 248	140.069	72.527	-37.519	1.00	67.10	A16S
ATOM	5113	C4	C	A 248	140.910	72.722	-38.524	1.00	67.10	A16S
ATOM	5114	N4	C	A 248	140.396	73.001	-39.711	1.00	67.10	A16S
ATOM	5115	C5	C	A 248	142.313	72.640	-38.354	1.00	67.10	A16S
ATOM	5116	C2*	C	A 248	142.263	70.335	-34.493	1.00	54.04	A16S
ATOM	5117	O2*	C	A 248	141.998	70.126	-33.119	1.00	54.04	A16S
ATOM	5118	C3*	C	A 248	143.650	69.854	-34.877	1.00	54.04	A16S
ATOM	5119	O3*	C	A 248	143.964	68.603	-34.299	1.00	54.04	A16S
ATOM	5120	P	U	A 249	143.611	67.264	-35.109	1.00	61.86	A16S
ATOM	5121	O1P	U	A 249	143.905	66.142	-34.172	1.00	68.39	A16S
ATOM	5122	O2P	U	A 249	144.243	67.296	-36.458	1.00	68.39	A16S
ATOM	5123	O5*	U	A 249	142.035	67.359	-35.320	1.00	61.86	A16S
ATOM	5124	C5*	U	A 249	141.158	67.424	-34.185	1.00	61.86	A16S
ATOM	5125	C4*	U	A 249	139.716	67.397	-34.618	1.00	61.86	A16S
ATOM	5126	O4*	U	A 249	139.369	68.620	-35.307	1.00	61.86	A16S
ATOM	5127	C1*	U	A 249	138.353	68.347	-36.252	1.00	61.86	A16S
ATOM	5128	N1	U	A 249	138.783	68.829	-37.574	1.00	68.39	A16S
ATOM	5129	C6	U	A 249	140.090	69.176	-37.830	1.00	68.39	A16S
ATOM	5130	C2	U	A 249	137.821	68.916	-38.570	1.00	68.39	A16S
ATOM	5131	O2	U	A 249	136.642	68.653	-38.389	1.00	68.39	A16S
ATOM	5132	N3	U	A 249	138.288	69.326	-39.789	1.00	68.39	A16S
ATOM	5133	C4	U	A 249	139.577	69.658	-40.114	1.00	68.39	A16S
ATOM	5134	O4	U	A 249	139.853	69.880	-41.288	1.00	68.39	A16S
ATOM	5135	C5	U	A 249	140.507	69.578	-39.033	1.00	68.39	A16S
ATOM	5136	C2*	U	A 249	138.051	66.844	-36.203	1.00	61.86	A16S
ATOM	5137	O2*	U	A 249	136.916	66.621	-35.388	1.00	61.86	A16S
ATOM	5138	C3*	U	A 249	139.321	66.291	-35.572	1.00	61.86	A16S
ATOM	5139	O3*	U	A 249	139.084	65.091	-34.860	1.00	61.86	A16S
ATOM	5140	P	A	A 250	139.416	63.683	-35.551	1.00	74.27	A16S
ATOM	5141	O1P	A	A 250	139.634	62.689	-34.465	1.00	114.99	A16S
ATOM	5142	O2P	A	A 250	140.468	63.898	-36.571	1.00	114.99	A16S
ATOM	5143	O5*	A	A 250	138.070	63.323	-36.320	1.00	74.27	A16S
ATOM	5144	C5*	A	A 250	136.911	62.859	-35.608	1.00	74.27	A16S
ATOM	5145	C4*	A	A 250	136.007	62.100	-36.544	1.00	74.27	A16S
ATOM	5146	O4*	A	A 250	135.439	63.012	-37.507	1.00	74.27	A16S
ATOM	5147	C1*	A	A 250	135.401	62.412	-38.786	1.00	74.27	A16S
ATOM	5148	N9	A	A 250	136.072	63.332	-39.696	1.00	114.99	A16S
ATOM	5149	C4	A	A 250	135.606	63.773	-40.911	1.00	114.99	A16S
ATOM	5150	N3	A	A 250	134.495	63.370	-41.554	1.00	114.99	A16S
ATOM	5151	C2	A	A 250	134.330	64.064	-42.682	1.00	114.99	A16S
ATOM	5152	N1	A	A 250	135.090	65.046	-43.199	1.00	114.99	A16S



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ATOM	5153	C6	A	A	250	136.202	65.426	-42.527	1.00114.99	A16S
ATOM	5154	N6	A	A	250	136.954	66.413	-43.032	1.00114.99	A16S
ATOM	5155	C5	A	A	250	136.495	64.757	-41.321	1.00114.99	A16S
ATOM	5156	N7	A	A	250	137.537	64.886	-40.411	1.00114.99	A16S
ATOM	5157	C8	A	A	250	137.249	64.009	-39.479	1.00114.99	A16S
ATOM	5158	C2*	A	A	250	135.926	60.979	-38.678	1.00 74.27	A16S
ATOM	5159	O2*	A	A	250	134.821	60.097	-38.727	1.00 74.27	A16S
ATOM	5160	C3*	A	A	250	136.711	61.033	-37.360	1.00 74.27	A16S
ATOM	5161	O3*	A	A	250	136.923	59.828	-36.586	1.00 74.27	A16S
ATOM	5162	P	G	A	251	135.688	59.055	-35.851	1.00 93.48	A16S
ATOM	5163	O1P	G	A	251	136.272	58.327	-34.674	1.00 82.96	A16S
ATOM	5164	O2P	G	A	251	134.890	58.294	-36.867	1.00 82.96	A16S
ATOM	5165	O5*	G	A	251	134.756	60.186	-35.217	1.00 93.48	A16S
ATOM	5166	C5*	G	A	251	133.952	59.893	-34.062	1.00 93.48	A16S
ATOM	5167	C4*	G	A	251	133.031	61.043	-33.744	1.00 93.48	A16S
ATOM	5168	O4*	G	A	251	132.111	61.280	-34.835	1.00 93.48	A16S
ATOM	5169	C1*	G	A	251	130.780	61.218	-34.362	1.00 93.48	A16S
ATOM	5170	N9	G	A	251	129.954	60.682	-35.439	1.00 82.96	A16S
ATOM	5171	C4	G	A	251	129.021	61.378	-36.187	1.00 82.96	A16S
ATOM	5172	N3	G	A	251	128.643	62.663	-36.004	1.00 82.96	A16S
ATOM	5173	C2	G	A	251	127.779	63.065	-36.926	1.00 82.96	A16S
ATOM	5174	N2	G	A	251	127.294	64.316	-36.900	1.00 82.96	A16S
ATOM	5175	N1	G	A	251	127.327	62.277	-37.941	1.00 82.96	A16S
ATOM	5176	C6	G	A	251	127.695	60.958	-38.150	1.00 82.96	A16S
ATOM	5177	O6	G	A	251	127.233	60.341	-39.113	1.00 82.96	A16S
ATOM	5178	C5	G	A	251	128.613	60.503	-37.163	1.00 82.96	A16S
ATOM	5179	N7	G	A	251	129.220	59.261	-36.999	1.00 82.96	A16S
ATOM	5180	C8	G	A	251	129.994	59.412	-35.958	1.00 82.96	A16S
ATOM	5181	C2*	G	A	251	130.829	60.401	-33.072	1.00 93.48	A16S
ATOM	5182	O2*	G	A	251	129.751	60.705	-32.210	1.00 93.48	A16S
ATOM	5183	C3*	G	A	251	132.176	60.831	-32.500	1.00 93.48	A16S
ATOM	5184	O3*	G	A	251	132.011	62.072	-31.828	1.00 93.48	A16S
ATOM	5185	P	U	A	252	133.268	63.060	-31.652	1.00 54.35	A16S
ATOM	5186	O1P	U	A	252	134.493	62.217	-31.557	1.00 61.48	A16S
ATOM	5187	O2P	U	A	252	132.938	64.000	-30.540	1.00 61.48	A16S
ATOM	5188	O5*	U	A	252	133.314	63.866	-33.038	1.00 54.35	A16S
ATOM	5189	C5*	U	A	252	134.384	64.792	-33.278	1.00 54.35	A16S
ATOM	5190	C4*	U	A	252	134.140	65.664	-34.496	1.00 54.35	A16S
ATOM	5191	O4*	U	A	252	134.472	64.992	-35.728	1.00 54.35	A16S
ATOM	5192	C1*	U	A	252	133.872	65.689	-36.801	1.00 54.35	A16S
ATOM	5193	N1	U	A	252	133.181	64.743	-37.692	1.00 61.48	A16S
ATOM	5194	C6	U	A	252	132.664	63.554	-37.237	1.00 61.48	A16S
ATOM	5195	C2	U	A	252	133.078	65.098	-39.026	1.00 61.48	A16S
ATOM	5196	O2	U	A	252	133.498	66.162	-39.465	1.00 61.48	A16S
ATOM	5197	N3	U	A	252	132.462	64.168	-39.828	1.00 61.48	A16S
ATOM	5198	C4	U	A	252	131.951	62.949	-39.444	1.00 61.48	A16S
ATOM	5199	O4	U	A	252	131.500	62.181	-40.300	1.00 61.48	A16S
ATOM	5200	C5	U	A	252	132.072	62.670	-38.045	1.00 61.48	A16S
ATOM	5201	C2*	U	A	252	132.952	66.760	-36.219	1.00 54.35	A16S
ATOM	5202	O2*	U	A	252	133.627	67.990	-36.378	1.00 54.35	A16S
ATOM	5203	C3*	U	A	252	132.794	66.305	-34.764	1.00 54.35	A16S
ATOM	5204	O3*	U	A	252	132.611	67.437	-33.933	1.00 54.35	A16S
ATOM	5205	P	U	A	253	131.133	67.880	-33.486	1.00 55.58	A16S
ATOM	5206	O1P	U	A	253	131.379	68.957	-32.472	1.00 55.52	A16S
ATOM	5207	O2P	U	A	253	130.339	66.674	-33.112	1.00 55.52	A16S
ATOM	5208	O5*	U	A	253	130.471	68.530	-34.782	1.00 55.58	A16S
ATOM	5209	C5*	U	A	253	130.462	69.952	-34.936	1.00 55.58	A16S
ATOM	5210	C4*	U	A	253	129.690	70.351	-36.156	1.00 55.58	A16S
ATOM	5211	O4*	U	A	253	130.381	69.905	-37.347	1.00 55.58	A16S
ATOM	5212	C1*	U	A	253	129.438	69.601	-38.358	1.00 55.58	A16S
ATOM	5213	N1	U	A	253	129.511	68.162	-38.655	1.00 55.52	A16S
ATOM	5214	C6	U	A	253	130.103	67.275	-37.789	1.00 55.52	A16S
ATOM	5215	C2	U	A	253	128.911	67.718	-39.823	1.00 55.52	A16S
ATOM	5216	O2	U	A	253	128.464	68.466	-40.663	1.00 55.52	A16S
ATOM	5217	N3	U	A	253	128.870	66.362	-39.976	1.00 55.52	A16S
ATOM	5218	C4	U	A	253	129.395	65.417	-39.128	1.00 55.52	A16S
ATOM	5219	O4	U	A	253	129.193	64.220	-39.360	1.00 55.52	A16S
ATOM	5220	C5	U	A	253	130.071	65.952	-37.982	1.00 55.52	A16S
ATOM	5221	C2*	U	A	253	128.059	69.934	-37.790	1.00 55.58	A16S
ATOM	5222	O2*	U	A	253	127.738	71.269	-38.134	1.00 55.58	A16S
ATOM	5223	C3*	U	A	253	128.303	69.764	-36.299	1.00 55.58	A16S
ATOM	5224	O3*	U	A	253	127.359	70.451	-35.498	1.00 55.58	A16S
ATOM	5225	P	G	A	254	126.026	69.691	-34.999	1.00 51.65	A16S
ATOM	5226	O1P	G	A	254	125.383	70.641	-34.066	1.00 64.79	A16S
ATOM	5227	O2P	G	A	254	126.328	68.304	-34.548	1.00 64.79	A16S
ATOM	5228	O5*	G	A	254	125.115	69.640	-36.303	1.00 51.65	A16S
ATOM	5229	C5*	G	A	254	124.457	70.837	-36.762	1.00 51.65	A16S



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ATOM	5230	C4*	G	A	254	123.927	70.639	-38.154	1.00	51.65	A16S
ATOM	5231	O4*	G	A	254	125.002	70.137	-38.985	1.00	51.65	A16S
ATOM	5232	C1*	G	A	254	124.490	69.232	-39.938	1.00	51.65	A16S
ATOM	5233	N9	G	A	254	125.083	67.922	-39.699	1.00	64.79	A16S
ATOM	5234	C4	G	A	254	124.918	66.814	-40.497	1.00	64.79	A16S
ATOM	5235	N3	G	A	254	124.207	66.768	-41.646	1.00	64.79	A16S
ATOM	5236	C2	G	A	254	124.197	65.560	-42.178	1.00	64.79	A16S
ATOM	5237	N2	G	A	254	123.548	65.358	-43.332	1.00	64.79	A16S
ATOM	5238	N1	G	A	254	124.825	64.467	-41.621	1.00	64.79	A16S
ATOM	5239	C6	G	A	254	125.562	64.484	-40.437	1.00	64.79	A16S
ATOM	5240	O6	G	A	254	126.073	63.435	-40.016	1.00	64.79	A16S
ATOM	5241	C5	G	A	254	125.599	65.796	-39.861	1.00	64.79	A16S
ATOM	5242	N7	G	A	254	126.214	66.264	-38.702	1.00	64.79	A16S
ATOM	5243	C8	G	A	254	125.881	67.528	-38.646	1.00	64.79	A16S
ATOM	5244	C2*	G	A	254	122.978	69.181	-39.754	1.00	51.65	A16S
ATOM	5245	O2*	G	A	254	122.342	70.102	-40.618	1.00	51.65	A16S
ATOM	5246	C3*	G	A	254	122.843	69.590	-38.300	1.00	51.65	A16S
ATOM	5247	O3*	G	A	254	121.545	70.077	-38.005	1.00	51.65	A16S
ATOM	5248	P	G	A	255	120.410	69.039	-37.555	1.00	53.96	A16S
ATOM	5249	O1P	G	A	255	119.222	69.835	-37.151	1.00	77.17	A16S
ATOM	5250	O2P	G	A	255	121.005	68.068	-36.598	1.00	77.17	A16S
ATOM	5251	O5*	G	A	255	120.078	68.247	-38.897	1.00	53.96	A16S
ATOM	5252	C5*	G	A	255	119.719	68.951	-40.100	1.00	53.96	A16S
ATOM	5253	C4*	G	A	255	119.381	67.972	-41.195	1.00	53.96	A16S
ATOM	5254	O4*	G	A	255	120.569	67.260	-41.612	1.00	53.96	A16S
ATOM	5255	C1*	G	A	255	120.230	65.927	-41.956	1.00	53.96	A16S
ATOM	5256	N9	G	A	255	121.020	65.014	-41.139	1.00	77.17	A16S
ATOM	5257	C4	G	A	255	121.300	63.708	-41.438	1.00	77.17	A16S
ATOM	5258	N3	G	A	255	120.891	63.045	-42.535	1.00	77.17	A16S
ATOM	5259	C2	G	A	255	121.305	61.793	-42.532	1.00	77.17	A16S
ATOM	5260	N2	G	A	255	120.983	60.975	-43.535	1.00	77.17	A16S
ATOM	5261	N1	G	A	255	122.066	61.240	-41.544	1.00	77.17	A16S
ATOM	5262	C6	G	A	255	122.501	61.901	-40.406	1.00	77.17	A16S
ATOM	5263	O6	G	A	255	123.179	61.296	-39.569	1.00	77.17	A16S
ATOM	5264	C5	G	A	255	122.061	63.247	-40.388	1.00	77.17	A16S
ATOM	5265	N7	G	A	255	122.259	64.245	-39.446	1.00	77.17	A16S
ATOM	5266	C8	G	A	255	121.622	65.275	-39.931	1.00	77.17	A16S
ATOM	5267	C2*	G	A	255	118.728	65.752	-41.751	1.00	53.96	A16S
ATOM	5268	O2*	G	A	255	118.059	65.900	-42.983	1.00	53.96	A16S
ATOM	5269	C3*	G	A	255	118.419	66.879	-40.783	1.00	53.96	A16S
ATOM	5270	O3*	G	A	255	117.085	67.309	-40.891	1.00	53.96	A16S
ATOM	5271	P	U	A	256	115.981	66.669	-39.923	1.00	68.53	A16S
ATOM	5272	O1P	U	A	256	114.757	67.509	-40.069	1.00	81.48	A16S
ATOM	5273	O2P	U	A	256	116.619	66.514	-38.585	1.00	81.48	A16S
ATOM	5274	O5*	U	A	256	115.719	65.220	-40.538	1.00	68.53	A16S
ATOM	5275	C5*	U	A	256	114.986	65.077	-41.764	1.00	68.53	A16S
ATOM	5276	C4*	U	A	256	114.922	63.630	-42.180	1.00	68.53	A16S
ATOM	5277	O4*	U	A	256	116.238	63.168	-42.567	1.00	68.53	A16S
ATOM	5278	C1*	U	A	256	116.386	61.802	-42.212	1.00	68.53	A16S
ATOM	5279	N1	U	A	256	117.448	61.704	-41.205	1.00	81.48	A16S
ATOM	5280	C6	U	A	256	117.861	62.811	-40.497	1.00	81.48	A16S
ATOM	5281	C2	U	A	256	118.008	60.461	-40.978	1.00	81.48	A16S
ATOM	5282	O2	U	A	256	117.681	59.456	-41.600	1.00	81.48	A16S
ATOM	5283	N3	U	A	256	118.970	60.439	-39.995	1.00	81.48	A16S
ATOM	5284	C4	U	A	256	119.424	61.511	-39.245	1.00	81.48	A16S
ATOM	5285	O4	U	A	256	120.307	61.336	-38.403	1.00	81.48	A16S
ATOM	5286	C5	U	A	256	118.802	62.757	-39.554	1.00	81.48	A16S
ATOM	5287	C2*	U	A	256	115.063	61.335	-41.616	1.00	68.53	A16S
ATOM	5288	O2*	U	A	256	114.241	60.771	-42.617	1.00	68.53	A16S
ATOM	5289	C3*	U	A	256	114.489	62.643	-41.113	1.00	68.53	A16S
ATOM	5290	O3*	U	A	256	113.096	62.545	-40.971	1.00	68.53	A16S
ATOM	5291	P	G	A	257	112.499	62.050	-39.572	1.00	85.74	A16S
ATOM	5292	O1P	G	A	257	111.025	62.135	-39.714	1.00	89.51	A16S
ATOM	5293	O2P	G	A	257	113.177	62.805	-38.485	1.00	89.51	A16S
ATOM	5294	O5*	G	A	257	112.972	60.529	-39.455	1.00	85.74	A16S
ATOM	5295	C5*	G	A	257	112.422	59.503	-40.310	1.00	85.74	A16S
ATOM	5296	C4*	G	A	257	113.035	58.160	-39.978	1.00	85.74	A16S
ATOM	5297	O4*	G	A	257	114.463	58.219	-40.231	1.00	85.74	A16S
ATOM	5298	C1*	G	A	257	115.161	57.471	-39.248	1.00	85.74	A16S
ATOM	5299	N9	G	A	257	116.015	58.386	-38.495	1.00	89.51	A16S
ATOM	5300	C4	G	A	257	117.056	58.043	-37.666	1.00	89.51	A16S
ATOM	5301	N3	G	A	257	117.499	56.797	-37.429	1.00	89.51	A16S
ATOM	5302	C2	G	A	257	118.489	56.785	-36.556	1.00	89.51	A16S
ATOM	5303	N2	G	A	257	119.039	55.625	-36.197	1.00	89.51	A16S
ATOM	5304	N1	G	A	257	119.008	57.906	-35.965	1.00	89.51	A16S
ATOM	5305	C6	G	A	257	118.563	59.202	-36.187	1.00	89.51	A16S
ATOM	5306	O6	G	A	257	119.080	60.148	-35.574	1.00	89.51	A16S



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ATOM	5307	C5	G	A	257	117.505	59.231	-37.130	1.00	89.51	A16S
ATOM	5308	N7	G	A	257	116.783	60.303	-37.634	1.00	89.51	A16S
ATOM	5309	C8	G	A	257	115.917	59.757	-38.443	1.00	89.51	A16S
ATOM	5310	C2*	G	A	257	114.119	56.814	-38.341	1.00	85.74	A16S
ATOM	5311	O2*	G	A	257	113.849	55.496	-38.768	1.00	85.74	A16S
ATOM	5312	C3*	G	A	257	112.922	57.734	-38.523	1.00	85.74	A16S
ATOM	5313	O3*	G	A	257	111.711	57.046	-38.247	1.00	85.74	A16S
ATOM	5314	P	G	A	258	111.179	56.961	-36.732	1.00	79.42	A16S
ATOM	5315	O1P	G	A	258	109.909	56.198	-36.803	1.00	96.79	A16S
ATOM	5316	O2P	G	A	258	111.174	58.329	-36.169	1.00	96.79	A16S
ATOM	5317	O5*	G	A	258	112.276	56.096	-35.945	1.00	79.42	A16S
ATOM	5318	C5*	G	A	258	112.399	54.678	-36.190	1.00	79.42	A16S
ATOM	5319	C4*	G	A	258	113.546	54.063	-35.404	1.00	79.42	A16S
ATOM	5320	O4*	G	A	258	114.818	54.627	-35.818	1.00	79.42	A16S
ATOM	5321	C1*	G	A	258	115.750	54.525	-34.746	1.00	79.42	A16S
ATOM	5322	N9	G	A	258	116.248	55.854	-34.403	1.00	96.79	A16S
ATOM	5323	C4	G	A	258	117.305	56.130	-33.566	1.00	96.79	A16S
ATOM	5324	N3	G	A	258	118.077	55.220	-32.942	1.00	96.79	A16S
ATOM	5325	C2	G	A	258	119.003	55.791	-32.196	1.00	96.79	A16S
ATOM	5326	N2	G	A	258	119.853	55.031	-31.503	1.00	96.79	A16S
ATOM	5327	N1	G	A	258	119.161	57.147	-32.073	1.00	96.79	A16S
ATOM	5328	C6	G	A	258	118.375	58.103	-32.705	1.00	96.79	A16S
ATOM	5329	O6	G	A	258	118.594	59.307	-32.521	1.00	96.79	A16S
ATOM	5330	C5	G	A	258	117.379	57.504	-33.510	1.00	96.79	A16S
ATOM	5331	N7	G	A	258	116.399	58.082	-34.305	1.00	96.79	A16S
ATOM	5332	C8	G	A	258	115.755	57.068	-34.816	1.00	96.79	A16S
ATOM	5333	C2*	G	A	258	115.025	53.913	-33.549	1.00	79.42	A16S
ATOM	5334	O2*	G	A	258	115.322	52.536	-33.459	1.00	79.42	A16S
ATOM	5335	C3*	G	A	258	113.565	54.190	-33.889	1.00	79.42	A16S
ATOM	5336	O3*	G	A	258	112.747	53.242	-33.228	1.00	79.42	A16S
ATOM	5337	P	G	A	259	112.346	53.490	-31.690	1.00	86.10	A16S
ATOM	5338	O1P	G	A	259	111.316	52.476	-31.324	1.00	94.58	A16S
ATOM	5339	O2P	G	A	259	112.034	54.941	-31.538	1.00	94.58	A16S
ATOM	5340	O5*	G	A	259	113.679	53.171	-30.868	1.00	86.10	A16S
ATOM	5341	C5*	G	A	259	114.161	51.813	-30.731	1.00	86.10	A16S
ATOM	5342	C4*	G	A	259	115.484	51.782	-29.991	1.00	86.10	A16S
ATOM	5343	O4*	G	A	259	116.423	52.659	-30.663	1.00	86.10	A16S
ATOM	5344	C1*	G	A	259	117.260	53.291	-29.709	1.00	86.10	A16S
ATOM	5345	N9	G	A	259	117.068	54.736	-29.811	1.00	94.58	A16S
ATOM	5346	C4	G	A	259	117.897	55.705	-29.303	1.00	94.58	A16S
ATOM	5347	N3	G	A	259	119.044	55.491	-28.636	1.00	94.58	A16S
ATOM	5348	C2	G	A	259	119.623	56.621	-28.280	1.00	94.58	A16S
ATOM	5349	N2	G	A	259	120.781	56.590	-27.612	1.00	94.58	A16S
ATOM	5350	N1	G	A	259	119.114	57.865	-28.552	1.00	94.58	A16S
ATOM	5351	C6	G	A	259	117.933	58.109	-29.233	1.00	94.58	A16S
ATOM	5352	O6	G	A	259	117.561	59.268	-29.418	1.00	94.58	A16S
ATOM	5353	C5	G	A	259	117.304	56.904	-29.629	1.00	94.58	A16S
ATOM	5354	N7	G	A	259	116.128	56.696	-30.334	1.00	94.58	A16S
ATOM	5355	C8	G	A	259	116.029	55.398	-30.419	1.00	94.58	A16S
ATOM	5356	C2*	G	A	259	116.891	52.742	-28.331	1.00	86.10	A16S
ATOM	5357	O2*	G	A	259	117.765	51.688	-28.001	1.00	86.10	A16S
ATOM	5358	C3*	G	A	259	115.462	52.267	-28.553	1.00	86.10	A16S
ATOM	5359	O3*	G	A	259	115.139	51.211	-27.665	1.00	86.10	A16S
ATOM	5360	P	G	A	260	114.527	51.551	-26.218	1.00	74.23	A16S
ATOM	5361	O1P	G	A	260	114.604	50.333	-25.372	1.00	91.80	A16S
ATOM	5362	O2P	G	A	260	113.215	52.226	-26.413	1.00	91.80	A16S
ATOM	5363	O5*	G	A	260	115.534	52.631	-25.625	1.00	74.23	A16S
ATOM	5364	C5*	G	A	260	116.871	52.274	-25.253	1.00	74.23	A16S
ATOM	5365	C4*	G	A	260	117.540	53.441	-24.584	1.00	74.23	A16S
ATOM	5366	O4*	G	A	260	117.883	54.458	-25.553	1.00	74.23	A16S
ATOM	5367	C1*	G	A	260	117.715	55.740	-24.976	1.00	74.23	A16S
ATOM	5368	N9	G	A	260	116.769	56.486	-25.794	1.00	91.80	A16S
ATOM	5369	C4	G	A	260	116.720	57.850	-25.966	1.00	91.80	A16S
ATOM	5370	N3	G	A	260	117.536	58.754	-25.387	1.00	91.80	A16S
ATOM	5371	C2	G	A	260	117.240	59.984	-25.755	1.00	91.80	A16S
ATOM	5372	N2	G	A	260	117.947	61.011	-25.271	1.00	91.80	A16S
ATOM	5373	N1	G	A	260	116.228	60.298	-26.625	1.00	91.80	A16S
ATOM	5374	C6	G	A	260	115.381	59.378	-27.231	1.00	91.80	A16S
ATOM	5375	O6	G	A	260	114.503	59.761	-28.007	1.00	91.80	A16S
ATOM	5376	C5	G	A	260	115.680	58.068	-26.841	1.00	91.80	A16S
ATOM	5377	N7	G	A	260	115.079	56.874	-27.201	1.00	91.80	A16S
ATOM	5378	C8	G	A	260	115.754	55.965	-26.555	1.00	91.80	A16S
ATOM	5379	C2*	G	A	260	117.233	55.551	-23.538	1.00	74.23	A16S
ATOM	5380	O2*	G	A	260	118.323	55.656	-22.649	1.00	74.23	A16S
ATOM	5381	C3*	G	A	260	116.651	54.149	-23.590	1.00	74.23	A16S
ATOM	5382	O3*	G	A	260	116.692	53.494	-22.349	1.00	74.23	A16S
ATOM	5383	P	U	A	261	115.392	53.508	-21.416	1.00	61.25	A16S



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ATOM	5384	O1P	U	A	261	114.189	53.353	-22.293	1.00	82.79	A16S
ATOM	5385	O2P	U	A	261	115.638	52.535	-20.317	1.00	82.79	A16S
ATOM	5386	O5*	U	A	261	115.405	54.969	-20.785	1.00	61.25	A16S
ATOM	5387	C5*	U	A	261	116.517	55.388	-19.985	1.00	61.25	A16S
ATOM	5388	C4*	U	A	261	116.434	56.862	-19.698	1.00	61.25	A16S
ATOM	5389	O4*	U	A	261	116.728	57.631	-20.889	1.00	61.25	A16S
ATOM	5390	C1*	U	A	261	116.008	58.846	-20.849	1.00	61.25	A16S
ATOM	5391	N1	U	A	261	115.190	58.949	-22.064	1.00	82.79	A16S
ATOM	5392	C6	U	A	261	114.709	57.840	-22.706	1.00	82.79	A16S
ATOM	5393	C2	U	A	261	114.911	60.211	-22.535	1.00	82.79	A16S
ATOM	5394	O2	U	A	261	115.346	61.220	-22.018	1.00	82.79	A16S
ATOM	5395	N3	U	A	261	114.110	60.253	-23.642	1.00	82.79	A16S
ATOM	5396	C4	U	A	261	113.587	59.189	-24.321	1.00	82.79	A16S
ATOM	5397	O4	U	A	261	112.864	59.393	-25.293	1.00	82.79	A16S
ATOM	5398	C5	U	A	261	113.939	57.914	-23.792	1.00	82.79	A16S
ATOM	5399	C2*	U	A	261	115.177	58.859	-19.565	1.00	61.25	A16S
ATOM	5400	O2*	U	A	261	115.876	59.567	-18.569	1.00	61.25	A16S
ATOM	5401	C3*	U	A	261	115.089	57.379	-19.233	1.00	61.25	A16S
ATOM	5402	O3*	U	A	261	114.901	57.148	-17.846	1.00	61.25	A16S
ATOM	5403	P	A	A	262	113.426	56.789	-17.297	1.00	54.11	A16S
ATOM	5404	O1P	A	A	262	112.809	55.783	-18.219	1.00	75.69	A16S
ATOM	5405	O2P	A	A	262	113.514	56.499	-15.840	1.00	75.69	A16S
ATOM	5406	O5*	A	A	262	112.624	58.146	-17.489	1.00	54.11	A16S
ATOM	5407	C5*	A	A	262	111.238	58.240	-17.170	1.00	54.11	A16S
ATOM	5408	C4*	A	A	262	110.806	59.664	-17.302	1.00	54.11	A16S
ATOM	5409	O4*	A	A	262	111.387	60.440	-16.236	1.00	54.11	A16S
ATOM	5410	C1*	A	A	262	111.831	61.679	-16.745	1.00	54.11	A16S
ATOM	5411	N9	A	A	262	113.255	61.820	-16.431	1.00	75.69	A16S
ATOM	5412	C4	A	A	262	113.949	63.002	-16.375	1.00	75.69	A16S
ATOM	5413	N3	A	A	262	113.497	64.222	-16.697	1.00	75.69	A16S
ATOM	5414	C2	A	A	262	114.414	65.147	-16.428	1.00	75.69	A16S
ATOM	5415	N1	A	A	262	115.635	65.003	-15.909	1.00	75.69	A16S
ATOM	5416	C6	A	A	262	116.061	63.762	-15.598	1.00	75.69	A16S
ATOM	5417	N6	A	A	262	117.270	63.626	-15.053	1.00	75.69	A16S
ATOM	5418	C5	A	A	262	115.189	62.688	-15.856	1.00	75.69	A16S
ATOM	5419	N7	A	A	262	115.312	61.318	-15.675	1.00	75.69	A16S
ATOM	5420	C8	A	A	262	114.146	60.848	-16.048	1.00	75.69	A16S
ATOM	5421	C2*	A	A	262	111.440	61.759	-18.219	1.00	54.11	A16S
ATOM	5422	O2*	A	A	262	110.189	62.412	-18.313	1.00	54.11	A16S
ATOM	5423	C3*	A	A	262	111.327	60.290	-18.575	1.00	54.11	A16S
ATOM	5424	O3*	A	A	262	110.409	60.052	-19.607	1.00	54.11	A16S
ATOM	5425	P	A	A	263	110.918	60.022	-21.118	1.00	48.23	A16S
ATOM	5426	O1P	A	A	263	109.717	59.815	-21.993	1.00	52.66	A16S
ATOM	5427	O2P	A	A	263	112.061	59.063	-21.189	1.00	52.66	A16S
ATOM	5428	O5*	A	A	263	111.444	61.507	-21.333	1.00	48.23	A16S
ATOM	5429	C5*	A	A	263	110.511	62.600	-21.428	1.00	48.23	A16S
ATOM	5430	C4*	A	A	263	111.249	63.901	-21.607	1.00	48.23	A16S
ATOM	5431	O4*	A	A	263	111.904	64.276	-20.363	1.00	48.23	A16S
ATOM	5432	C1*	A	A	263	113.145	64.896	-20.658	1.00	48.23	A16S
ATOM	5433	N9	A	A	263	114.210	64.130	-20.019	1.00	52.66	A16S
ATOM	5434	C4	A	A	263	115.304	64.638	-19.370	1.00	52.66	A16S
ATOM	5435	N3	A	A	263	115.590	65.928	-19.141	1.00	52.66	A16S
ATOM	5436	C2	A	A	263	116.744	66.037	-18.513	1.00	52.66	A16S
ATOM	5437	N1	A	A	263	117.580	65.079	-18.122	1.00	52.66	A16S
ATOM	5438	C6	A	A	263	117.256	63.798	-18.367	1.00	52.66	A16S
ATOM	5439	N6	A	A	263	118.091	62.839	-17.981	1.00	52.66	A16S
ATOM	5440	C5	A	A	263	116.066	63.548	-19.013	1.00	52.66	A16S
ATOM	5441	N7	A	A	263	115.453	62.370	-19.395	1.00	52.66	A16S
ATOM	5442	C8	A	A	263	114.350	62.768	-19.976	1.00	52.66	A16S
ATOM	5443	C2*	A	A	263	113.314	64.947	-22.182	1.00	48.23	A16S
ATOM	5444	O2*	A	A	263	112.955	66.229	-22.626	1.00	48.23	A16S
ATOM	5445	C3*	A	A	263	112.353	63.860	-22.654	1.00	48.23	A16S
ATOM	5446	O3*	A	A	263	111.821	64.100	-23.955	1.00	48.23	A16S
ATOM	5447	P	U	A	264	112.677	63.698	-25.254	1.00	50.02	A16S
ATOM	5448	O1P	U	A	264	111.764	63.472	-26.405	1.00	61.01	A16S
ATOM	5449	O2P	U	A	264	113.609	62.620	-24.852	1.00	61.01	A16S
ATOM	5450	O5*	U	A	264	113.550	65.002	-25.547	1.00	50.02	A16S
ATOM	5451	C5*	U	A	264	112.926	66.255	-25.864	1.00	50.02	A16S
ATOM	5452	C4*	U	A	264	113.970	67.331	-26.068	1.00	50.02	A16S
ATOM	5453	O4*	U	A	264	114.575	67.705	-24.805	1.00	50.02	A16S
ATOM	5454	C1*	U	A	264	115.948	68.019	-24.999	1.00	50.02	A16S
ATOM	5455	N1	U	A	264	116.754	67.043	-24.251	1.00	61.01	A16S
ATOM	5456	C6	U	A	264	116.209	65.860	-23.827	1.00	61.01	A16S
ATOM	5457	C2	U	A	264	118.076	67.341	-24.001	1.00	61.01	A16S
ATOM	5458	O2	U	A	264	118.598	68.384	-24.336	1.00	61.01	A16S
ATOM	5459	N3	U	A	264	118.768	66.367	-23.336	1.00	61.01	A16S
ATOM	5460	C4	U	A	264	118.281	65.157	-22.897	1.00	61.01	A16S



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ATOM	5461	O4	U	A	264	119.044	64.355	-22.361	1.00	61.01	A16S
ATOM	5462	C5	U	A	264	116.905	64.937	-23.174	1.00	61.01	A16S
ATOM	5463	C2*	U	A	264	116.225	67.935	-26.498	1.00	50.02	A16S
ATOM	5464	O2*	U	A	264	116.100	69.231	-27.061	1.00	50.02	A16S
ATOM	5465	C3*	U	A	264	115.144	66.962	-26.949	1.00	50.02	A16S
ATOM	5466	O3*	U	A	264	114.832	67.117	-28.307	1.00	50.02	A16S
ATOM	5467	P	G	A	265	115.335	66.014	-29.344	1.00	60.77	A16S
ATOM	5468	O1P	G	A	265	114.962	66.511	-30.691	1.00	74.46	A16S
ATOM	5469	O2P	G	A	265	114.865	64.682	-28.890	1.00	74.46	A16S
ATOM	5470	O5*	G	A	265	116.913	66.090	-29.218	1.00	60.77	A16S
ATOM	5471	C5*	G	A	265	117.594	67.245	-29.703	1.00	60.77	A16S
ATOM	5472	C4*	G	A	265	119.043	67.211	-29.320	1.00	60.77	A16S
ATOM	5473	O4*	G	A	265	119.163	67.209	-27.876	1.00	60.77	A16S
ATOM	5474	C1*	G	A	265	120.390	66.612	-27.514	1.00	60.77	A16S
ATOM	5475	N9	G	A	265	120.143	65.502	-26.602	1.00	74.46	A16S
ATOM	5476	C4	G	A	265	121.059	64.979	-25.733	1.00	74.46	A16S
ATOM	5477	N3	G	A	265	122.306	65.445	-25.535	1.00	74.46	A16S
ATOM	5478	C2	G	A	265	122.971	64.717	-24.662	1.00	74.46	A16S
ATOM	5479	N2	G	A	265	124.226	65.050	-24.340	1.00	74.46	A16S
ATOM	5480	N1	G	A	265	122.458	63.614	-24.038	1.00	74.46	A16S
ATOM	5481	C6	G	A	265	121.179	63.114	-24.228	1.00	74.46	A16S
ATOM	5482	O6	G	A	265	120.821	62.100	-23.614	1.00	74.46	A16S
ATOM	5483	C5	G	A	265	120.446	63.895	-25.159	1.00	74.46	A16S
ATOM	5484	N7	G	A	265	119.149	63.760	-25.629	1.00	74.46	A16S
ATOM	5485	C8	G	A	265	119.008	64.743	-26.473	1.00	74.46	A16S
ATOM	5486	C2*	G	A	265	121.055	66.116	-28.802	1.00	60.77	A16S
ATOM	5487	O2*	G	A	265	121.991	67.086	-29.239	1.00	60.77	A16S
ATOM	5488	C3*	G	A	265	119.864	66.008	-29.743	1.00	60.77	A16S
ATOM	5489	O3*	G	A	265	120.251	66.064	-31.108	1.00	60.77	A16S
ATOM	5490	P	G	A	266	120.199	64.724	-32.009	1.00	74.02	A16S
ATOM	5491	O1P	G	A	266	120.320	65.151	-33.431	1.00	95.07	A16S
ATOM	5492	O2P	G	A	266	119.059	63.870	-31.599	1.00	95.07	A16S
ATOM	5493	O5*	G	A	266	121.539	63.968	-31.622	1.00	74.02	A16S
ATOM	5494	C5*	G	A	266	122.775	64.654	-31.734	1.00	74.02	A16S
ATOM	5495	C4*	G	A	266	123.820	64.038	-30.844	1.00	74.02	A16S
ATOM	5496	O4*	G	A	266	124.228	62.754	-31.364	1.00	74.02	A16S
ATOM	5497	C1*	G	A	266	125.518	62.853	-31.908	1.00	74.02	A16S
ATOM	5498	N9	G	A	266	125.277	63.001	-33.333	1.00	95.07	A16S
ATOM	5499	C4	G	A	266	125.348	62.003	-34.257	1.00	95.07	A16S
ATOM	5500	N3	G	A	266	125.799	60.758	-34.035	1.00	95.07	A16S
ATOM	5501	C2	G	A	266	125.681	60.002	-35.104	1.00	95.07	A16S
ATOM	5502	N2	G	A	266	126.105	58.730	-35.072	1.00	95.07	A16S
ATOM	5503	N1	G	A	266	125.142	60.437	-36.291	1.00	95.07	A16S
ATOM	5504	C6	G	A	266	124.667	61.720	-36.528	1.00	95.07	A16S
ATOM	5505	O6	G	A	266	124.183	62.009	-37.617	1.00	95.07	A16S
ATOM	5506	C5	G	A	266	124.813	62.535	-35.407	1.00	95.07	A16S
ATOM	5507	N7	G	A	266	124.489	63.869	-35.230	1.00	95.07	A16S
ATOM	5508	C8	G	A	266	124.808	64.111	-33.991	1.00	95.07	A16S
ATOM	5509	C2*	G	A	266	126.218	63.984	-31.144	1.00	74.02	A16S
ATOM	5510	O2*	G	A	266	126.814	63.425	-29.999	1.00	74.02	A16S
ATOM	5511	C3*	G	A	266	125.047	64.920	-30.854	1.00	74.02	A16S
ATOM	5512	O3*	G	A	266	124.931	65.688	-29.662	1.00	74.02	A16S
ATOM	5513	P	C	A	267	125.893	65.447	-28.403	1.00	59.46	A16S
ATOM	5514	O1P	C	A	267	125.435	66.478	-27.417	1.00	68.18	A16S
ATOM	5515	O2P	C	A	267	127.325	65.423	-28.827	1.00	68.18	A16S
ATOM	5516	O5*	C	A	267	125.518	64.034	-27.761	1.00	59.46	A16S
ATOM	5517	C5*	C	A	267	126.203	63.642	-26.541	1.00	59.46	A16S
ATOM	5518	C4*	C	A	267	125.802	62.263	-26.080	1.00	59.46	A16S
ATOM	5519	O4*	C	A	267	124.440	62.268	-25.607	1.00	59.46	A16S
ATOM	5520	C1*	C	A	267	123.854	61.008	-25.859	1.00	59.46	A16S
ATOM	5521	N1	C	A	267	122.690	61.210	-26.730	1.00	68.18	A16S
ATOM	5522	C6	C	A	267	122.578	62.330	-27.508	1.00	68.18	A16S
ATOM	5523	C2	C	A	267	121.705	60.233	-26.760	1.00	68.18	A16S
ATOM	5524	O2	C	A	267	121.805	59.255	-26.005	1.00	68.18	A16S
ATOM	5525	N3	C	A	267	120.661	60.379	-27.599	1.00	68.18	A16S
ATOM	5526	C4	C	A	267	120.569	61.461	-28.367	1.00	68.18	A16S
ATOM	5527	N4	C	A	267	119.537	61.544	-29.192	1.00	68.18	A16S
ATOM	5528	C5	C	A	267	121.539	62.495	-28.328	1.00	68.18	A16S
ATOM	5529	C2*	C	A	267	124.917	60.105	-26.492	1.00	59.46	A16S
ATOM	5530	O2*	C	A	267	125.524	59.328	-25.483	1.00	59.46	A16S
ATOM	5531	C3*	C	A	267	125.881	61.124	-27.081	1.00	59.46	A16S
ATOM	5532	O3*	C	A	267	127.202	60.604	-27.148	1.00	59.46	A16S
ATOM	5533	P	C	A	268	127.773	60.062	-28.546	1.00	62.32	A16S
ATOM	5534	O1P	C	A	268	129.189	59.715	-28.296	1.00	71.54	A16S
ATOM	5535	O2P	C	A	268	127.440	61.003	-29.638	1.00	71.54	A16S
ATOM	5536	O5*	C	A	268	126.958	58.718	-28.788	1.00	62.32	A16S
ATOM	5537	C5*	C	A	268	127.223	57.552	-27.997	1.00	62.32	A16S



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ATOM	5538	C4*	C	A	268	126.332	56.424	-28.430	1.00	62.32	A16S
ATOM	5539	O4*	C	A	268	124.967	56.752	-28.104	1.00	62.32	A16S
ATOM	5540	C1*	C	A	268	124.106	56.259	-29.116	1.00	62.32	A16S
ATOM	5541	N1	C	A	268	123.350	57.386	-29.683	1.00	71.54	A16S
ATOM	5542	C6	C	A	268	123.560	58.667	-29.251	1.00	71.54	A16S
ATOM	5543	C2	C	A	268	122.406	57.125	-30.684	1.00	71.54	A16S
ATOM	5544	O2	C	A	268	122.235	55.954	-31.061	1.00	71.54	A16S
ATOM	5545	N3	C	A	268	121.710	58.153	-31.219	1.00	71.54	A16S
ATOM	5546	C4	C	A	268	121.930	59.398	-30.797	1.00	71.54	A16S
ATOM	5547	N4	C	A	268	121.234	60.377	-31.366	1.00	71.54	A16S
ATOM	5548	C5	C	A	268	122.878	59.691	-29.776	1.00	71.54	A16S
ATOM	5549	C2*	C	A	268	124.960	55.537	-30.159	1.00	62.32	A16S
ATOM	5550	O2*	C	A	268	124.933	54.143	-29.925	1.00	62.32	A16S
ATOM	5551	C3*	C	A	268	126.326	56.160	-29.924	1.00	62.32	A16S
ATOM	5552	O3*	C	A	268	127.360	55.269	-30.278	1.00	62.32	A16S
ATOM	5553	P	C	A	269	127.864	55.206	-31.797	1.00	78.58	A16S
ATOM	5554	O1P	C	A	269	129.008	54.257	-31.788	1.00	72.30	A16S
ATOM	5555	O2P	C	A	269	128.054	56.594	-32.312	1.00	72.30	A16S
ATOM	5556	O5*	C	A	269	126.663	54.512	-32.578	1.00	78.58	A16S
ATOM	5557	C5*	C	A	269	126.494	53.092	-32.512	1.00	78.58	A16S
ATOM	5558	C4*	C	A	269	125.386	52.657	-33.424	1.00	78.58	A16S
ATOM	5559	O4*	C	A	269	124.161	53.288	-32.996	1.00	78.58	A16S
ATOM	5560	C1*	C	A	269	123.350	53.545	-34.122	1.00	78.58	A16S
ATOM	5561	N1	C	A	269	123.042	54.979	-34.166	1.00	72.30	A16S
ATOM	5562	C6	C	A	269	123.884	55.902	-33.615	1.00	72.30	A16S
ATOM	5563	C2	C	A	269	121.862	55.388	-34.801	1.00	72.30	A16S
ATOM	5564	O2	C	A	269	121.115	54.527	-35.290	1.00	72.30	A16S
ATOM	5565	N3	C	A	269	121.569	56.702	-34.870	1.00	72.30	A16S
ATOM	5566	C4	C	A	269	122.400	57.595	-34.338	1.00	72.30	A16S
ATOM	5567	N4	C	A	269	122.072	58.882	-34.437	1.00	72.30	A16S
ATOM	5568	C5	C	A	269	123.606	57.209	-33.680	1.00	72.30	A16S
ATOM	5569	C2*	C	A	269	124.096	53.075	-35.371	1.00	78.58	A16S
ATOM	5570	O2*	C	A	269	123.632	51.805	-35.778	1.00	78.58	A16S
ATOM	5571	C3*	C	A	269	125.534	53.050	-34.882	1.00	78.58	A16S
ATOM	5572	O3*	C	A	269	126.303	52.104	-35.609	1.00	78.58	A16S
ATOM	5573	P	A	A	270	126.894	52.502	-37.051	1.00	77.34	A16S
ATOM	5574	O1P	A	A	270	127.773	51.375	-37.460	1.00	88.80	A16S
ATOM	5575	O2P	A	A	270	127.457	53.881	-36.967	1.00	88.80	A16S
ATOM	5576	O5*	A	A	270	125.622	52.520	-38.014	1.00	77.34	A16S
ATOM	5577	C5*	A	A	270	125.102	51.295	-38.556	1.00	77.34	A16S
ATOM	5578	C4*	A	A	270	123.936	51.567	-39.471	1.00	77.34	A16S
ATOM	5579	O4*	A	A	270	122.882	52.201	-38.713	1.00	77.34	A16S
ATOM	5580	C1*	A	A	270	122.202	53.140	-39.530	1.00	77.34	A16S
ATOM	5581	N9	A	A	270	122.330	54.459	-38.906	1.00	88.80	A16S
ATOM	5582	C4	A	A	270	121.521	55.550	-39.112	1.00	88.80	A16S
ATOM	5583	N3	A	A	270	120.468	55.643	-39.940	1.00	88.80	A16S
ATOM	5584	C2	A	A	270	119.905	56.844	-39.848	1.00	88.80	A16S
ATOM	5585	N1	A	A	270	120.253	57.884	-39.083	1.00	88.80	A16S
ATOM	5586	C6	A	A	270	121.326	57.760	-38.271	1.00	88.80	A16S
ATOM	5587	N6	A	A	270	121.688	58.800	-37.513	1.00	88.80	A16S
ATOM	5588	C5	A	A	270	122.003	56.537	-38.273	1.00	88.80	A16S
ATOM	5589	N7	A	A	270	123.108	56.089	-37.570	1.00	88.80	A16S
ATOM	5590	C8	A	A	270	123.264	54.857	-37.982	1.00	88.80	A16S
ATOM	5591	C2*	A	A	270	122.808	53.062	-40.931	1.00	77.34	A16S
ATOM	5592	O2*	A	A	270	122.037	52.183	-41.728	1.00	77.34	A16S
ATOM	5593	C3*	A	A	270	124.193	52.510	-40.631	1.00	77.34	A16S
ATOM	5594	O3*	A	A	270	124.742	51.842	-41.753	1.00	77.34	A16S
ATOM	5595	P	C	A	271	125.803	52.613	-42.678	1.00	74.56	A16S
ATOM	5596	O1P	C	A	271	126.461	51.613	-43.571	1.00	92.53	A16S
ATOM	5597	O2P	C	A	271	126.633	53.443	-41.770	1.00	92.53	A16S
ATOM	5598	O5*	C	A	271	124.915	53.594	-43.560	1.00	74.56	A16S
ATOM	5599	C5*	C	A	271	123.967	53.063	-44.480	1.00	74.56	A16S
ATOM	5600	C4*	C	A	271	122.974	54.119	-44.867	1.00	74.56	A16S
ATOM	5601	O4*	C	A	271	122.240	54.545	-43.693	1.00	74.56	A16S
ATOM	5602	C1*	C	A	271	121.940	55.928	-43.795	1.00	74.56	A16S
ATOM	5603	N1	C	A	271	122.570	56.635	-42.666	1.00	92.53	A16S
ATOM	5604	C6	C	A	271	123.679	56.126	-42.044	1.00	92.53	A16S
ATOM	5605	C2	C	A	271	122.024	57.859	-42.250	1.00	92.53	A16S
ATOM	5606	O2	C	A	271	120.993	58.285	-42.811	1.00	92.53	A16S
ATOM	5607	N3	C	A	271	122.628	58.542	-41.251	1.00	92.53	A16S
ATOM	5608	C4	C	A	271	123.717	58.043	-40.665	1.00	92.53	A16S
ATOM	5609	N4	C	A	271	124.281	58.754	-39.688	1.00	92.53	A16S
ATOM	5610	C5	C	A	271	124.277	56.791	-41.051	1.00	92.53	A16S
ATOM	5611	C2*	C	A	271	122.492	56.427	-45.131	1.00	74.56	A16S
ATOM	5612	O2*	C	A	271	121.472	56.451	-46.108	1.00	74.56	A16S
ATOM	5613	C3*	C	A	271	123.574	55.397	-45.413	1.00	74.56	A16S
ATOM	5614	O3*	C	A	271	123.899	55.308	-46.783	1.00	74.56	A16S



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ATOM	5615	P	C	A	272	125.155	56.134	-47.329	1.00	94.50	A16S
ATOM	5616	O1P	C	A	272	125.496	55.683	-48.706	1.00	78.60	A16S
ATOM	5617	O2P	C	A	272	126.186	56.067	-46.255	1.00	78.60	A16S
ATOM	5618	O5*	C	A	272	124.603	57.624	-47.418	1.00	94.50	A16S
ATOM	5619	C5*	C	A	272	123.418	57.912	-48.165	1.00	94.50	A16S
ATOM	5620	C4*	C	A	272	123.001	59.343	-47.951	1.00	94.50	A16S
ATOM	5621	O4*	C	A	272	122.545	59.535	-46.584	1.00	94.50	A16S
ATOM	5622	C1*	C	A	272	122.848	60.861	-46.162	1.00	94.50	A16S
ATOM	5623	N1	C	A	272	123.723	60.813	-44.963	1.00	78.60	A16S
ATOM	5624	C6	C	A	272	124.292	59.640	-44.548	1.00	78.60	A16S
ATOM	5625	C2	C	A	272	123.981	62.010	-44.257	1.00	78.60	A16S
ATOM	5626	O2	C	A	272	123.430	63.059	-44.620	1.00	78.60	A16S
ATOM	5627	N3	C	A	272	124.819	61.986	-43.195	1.00	78.60	A16S
ATOM	5628	C4	C	A	272	125.382	60.837	-42.816	1.00	78.60	A16S
ATOM	5629	N4	C	A	272	126.216	60.866	-41.781	1.00	78.60	A16S
ATOM	5630	C5	C	A	272	125.118	59.608	-43.490	1.00	78.60	A16S
ATOM	5631	C2*	C	A	272	123.530	61.567	-47.335	1.00	94.50	A16S
ATOM	5632	O2*	C	A	272	122.589	62.305	-48.097	1.00	94.50	A16S
ATOM	5633	C3*	C	A	272	124.089	60.388	-48.112	1.00	94.50	A16S
ATOM	5634	O3*	C	A	272	124.367	60.729	-49.451	1.00	94.50	A16S
ATOM	5635	P	A	A	273	125.851	61.208	-49.836	1.00	95.61	A16S
ATOM	5636	O1P	A	A	273	125.934	61.233	-51.321	1.00	72.05	A16S
ATOM	5637	O2P	A	A	273	126.816	60.369	-49.057	1.00	72.05	A16S
ATOM	5638	O5*	A	A	273	125.906	62.714	-49.315	1.00	95.61	A16S
ATOM	5639	C5*	A	A	273	124.969	63.682	-49.812	1.00	95.61	A16S
ATOM	5640	C4*	A	A	273	125.068	64.969	-49.034	1.00	95.61	A16S
ATOM	5641	O4*	A	A	273	124.681	64.751	-47.658	1.00	95.61	A16S
ATOM	5642	C1*	A	A	273	125.433	65.599	-46.811	1.00	95.61	A16S
ATOM	5643	N9	A	A	273	126.212	64.767	-45.898	1.00	72.05	A16S
ATOM	5644	C4	A	A	273	126.705	65.156	-44.676	1.00	72.05	A16S
ATOM	5645	N3	A	A	273	126.579	66.360	-44.091	1.00	72.05	A16S
ATOM	5646	C2	A	A	273	127.195	66.373	-42.913	1.00	72.05	A16S
ATOM	5647	N1	A	A	273	127.862	65.393	-42.294	1.00	72.05	A16S
ATOM	5648	C6	A	A	273	127.962	64.193	-42.902	1.00	72.05	A16S
ATOM	5649	N6	A	A	273	128.612	63.211	-42.271	1.00	72.05	A16S
ATOM	5650	C5	A	A	273	127.364	64.052	-44.166	1.00	72.05	A16S
ATOM	5651	N7	A	A	273	127.293	62.986	-45.053	1.00	72.05	A16S
ATOM	5652	C8	A	A	273	126.603	63.462	-46.061	1.00	72.05	A16S
ATOM	5653	C2*	A	A	273	126.326	66.458	-47.698	1.00	95.61	A16S
ATOM	5654	O2*	A	A	273	125.648	67.667	-47.961	1.00	95.61	A16S
ATOM	5655	C3*	A	A	273	126.444	65.594	-48.943	1.00	95.61	A16S
ATOM	5656	O3*	A	A	273	126.708	66.379	-50.084	1.00	95.61	A16S
ATOM	5657	P	A	A	274	128.216	66.516	-50.618	1.00	73.74	A16S
ATOM	5658	O1P	A	A	274	128.130	67.351	-51.854	1.00	79.31	A16S
ATOM	5659	O2P	A	A	274	128.826	65.154	-50.683	1.00	79.31	A16S
ATOM	5660	O5*	A	A	274	128.974	67.340	-49.477	1.00	73.74	A16S
ATOM	5661	C5*	A	A	274	128.479	68.616	-49.026	1.00	73.74	A16S
ATOM	5662	C4*	A	A	274	129.298	69.110	-47.861	1.00	73.74	A16S
ATOM	5663	O4*	A	A	274	129.214	68.138	-46.786	1.00	73.74	A16S
ATOM	5664	C1*	A	A	274	130.511	67.857	-46.329	1.00	73.74	A16S
ATOM	5665	N9	A	A	274	130.568	66.508	-45.783	1.00	79.31	A16S
ATOM	5666	C4	A	A	274	130.877	66.220	-44.480	1.00	79.31	A16S
ATOM	5667	N3	A	A	274	131.129	67.096	-43.495	1.00	79.31	A16S
ATOM	5668	C2	A	A	274	131.403	66.456	-42.366	1.00	79.31	A16S
ATOM	5669	N1	A	A	274	131.456	65.140	-42.130	1.00	79.31	A16S
ATOM	5670	C6	A	A	274	131.205	64.293	-43.144	1.00	79.31	A16S
ATOM	5671	N6	A	A	274	131.276	62.989	-42.912	1.00	79.31	A16S
ATOM	5672	C5	A	A	274	130.890	64.842	-44.389	1.00	79.31	A16S
ATOM	5673	N7	A	A	274	130.569	64.267	-45.609	1.00	79.31	A16S
ATOM	5674	C8	A	A	274	130.379	65.299	-46.400	1.00	79.31	A16S
ATOM	5675	C2*	A	A	274	131.428	68.094	-47.519	1.00	73.74	A16S
ATOM	5676	O2*	A	A	274	132.736	68.341	-47.051	1.00	73.74	A16S
ATOM	5677	C3*	A	A	274	130.789	69.326	-48.135	1.00	73.74	A16S
ATOM	5678	O3*	A	A	274	131.285	70.424	-47.376	1.00	73.74	A16S
ATOM	5679	P	G	A	275	130.926	71.925	-47.801	1.00	58.11	A16S
ATOM	5680	O1P	G	A	275	130.273	71.914	-49.138	1.00	70.11	A16S
ATOM	5681	O2P	G	A	275	132.130	72.765	-47.583	1.00	70.11	A16S
ATOM	5682	O5*	G	A	275	129.822	72.334	-46.733	1.00	58.11	A16S
ATOM	5683	C5*	G	A	275	130.204	72.929	-45.491	1.00	58.11	A16S
ATOM	5684	C4*	G	A	275	129.663	72.138	-44.326	1.00	58.11	A16S
ATOM	5685	O4*	G	A	275	130.164	70.776	-44.361	1.00	58.11	A16S
ATOM	5686	C1*	G	A	275	130.538	70.365	-43.052	1.00	58.11	A16S
ATOM	5687	N9	G	A	275	131.972	70.074	-43.079	1.00	70.11	A16S
ATOM	5688	C4	G	A	275	132.802	69.840	-42.000	1.00	70.11	A16S
ATOM	5689	N3	G	A	275	132.435	69.821	-40.699	1.00	70.11	A16S
ATOM	5690	C2	G	A	275	133.467	69.577	-39.901	1.00	70.11	A16S
ATOM	5691	N2	G	A	275	133.291	69.522	-38.574	1.00	70.11	A16S



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ATOM	5692	N1	G	A	275	134.749	69.372	-40.346	1.00	70.11	A16S
ATOM	5693	C6	G	A	275	135.146	69.385	-41.678	1.00	70.11	A16S
ATOM	5694	O6	G	A	275	136.332	69.184	-41.974	1.00	70.11	A16S
ATOM	5695	C5	G	A	275	134.057	69.642	-42.543	1.00	70.11	A16S
ATOM	5696	N7	G	A	275	134.018	69.736	-43.927	1.00	70.11	A16S
ATOM	5697	C8	G	A	275	132.767	69.991	-44.200	1.00	70.11	A16S
ATOM	5698	C2*	G	A	275	130.163	71.494	-42.083	1.00	58.11	A16S
ATOM	5699	O2*	G	A	275	128.905	71.260	-41.487	1.00	58.11	A16S
ATOM	5700	C3*	G	A	275	130.163	72.695	-43.013	1.00	58.11	A16S
ATOM	5701	O3*	G	A	275	129.367	73.779	-42.593	1.00	58.11	A16S
ATOM	5702	P	G	A	276	130.082	75.053	-41.949	1.00	67.55	A16S
ATOM	5703	O1P	G	A	276	129.100	76.158	-41.735	1.00	70.94	A16S
ATOM	5704	O2P	G	A	276	131.308	75.307	-42.745	1.00	70.94	A16S
ATOM	5705	O5*	G	A	276	130.518	74.499	-40.529	1.00	67.55	A16S
ATOM	5706	C5*	G	A	276	129.524	74.060	-39.604	1.00	67.55	A16S
ATOM	5707	C4*	G	A	276	130.169	73.712	-38.303	1.00	67.55	A16S
ATOM	5708	O4*	G	A	276	130.954	72.515	-38.490	1.00	67.55	A16S
ATOM	5709	C1*	G	A	276	132.141	72.610	-37.731	1.00	67.55	A16S
ATOM	5710	N9	G	A	276	133.275	72.564	-38.646	1.00	70.94	A16S
ATOM	5711	C4	G	A	276	134.589	72.432	-38.289	1.00	70.94	A16S
ATOM	5712	N3	G	A	276	135.049	72.306	-37.036	1.00	70.94	A16S
ATOM	5713	C2	G	A	276	136.362	72.224	-36.999	1.00	70.94	A16S
ATOM	5714	N2	G	A	276	136.983	72.105	-35.815	1.00	70.94	A16S
ATOM	5715	N1	G	A	276	137.164	72.255	-38.113	1.00	70.94	A16S
ATOM	5716	C6	G	A	276	136.710	72.384	-39.418	1.00	70.94	A16S
ATOM	5717	O6	G	A	276	137.521	72.407	-40.353	1.00	70.94	A16S
ATOM	5718	C5	G	A	276	135.298	72.477	-39.467	1.00	70.94	A16S
ATOM	5719	N7	G	A	276	134.442	72.617	-40.549	1.00	70.94	A16S
ATOM	5720	C8	G	A	276	133.252	72.664	-40.016	1.00	70.94	A16S
ATOM	5721	C2*	G	A	276	132.099	73.925	-36.950	1.00	67.55	A16S
ATOM	5722	O2*	G	A	276	131.597	73.682	-35.653	1.00	67.55	A16S
ATOM	5723	C3*	G	A	276	131.151	74.755	-37.798	1.00	67.55	A16S
ATOM	5724	O3*	G	A	276	130.508	75.795	-37.064	1.00	67.55	A16S
ATOM	5725	P	C	A	277	131.147	77.271	-37.055	1.00	59.79	A16S
ATOM	5726	O1P	C	A	277	130.330	78.120	-36.143	1.00	47.20	A16S
ATOM	5727	O2P	C	A	277	131.336	77.694	-38.487	1.00	47.20	A16S
ATOM	5728	O5*	C	A	277	132.559	77.046	-36.339	1.00	59.79	A16S
ATOM	5729	C5*	C	A	277	132.603	76.529	-34.993	1.00	59.79	A16S
ATOM	5730	C4*	C	A	277	134.018	76.468	-34.459	1.00	59.79	A16S
ATOM	5731	O4*	C	A	277	134.750	75.332	-34.988	1.00	59.79	A16S
ATOM	5732	C1*	C	A	277	136.140	75.636	-35.005	1.00	59.79	A16S
ATOM	5733	N1	C	A	277	136.643	75.570	-36.387	1.00	47.20	A16S
ATOM	5734	C6	C	A	277	135.796	75.674	-37.459	1.00	47.20	A16S
ATOM	5735	C2	C	A	277	138.022	75.421	-36.590	1.00	47.20	A16S
ATOM	5736	O2	C	A	277	138.768	75.293	-35.596	1.00	47.20	A16S
ATOM	5737	N3	C	A	277	138.502	75.414	-37.863	1.00	47.20	A16S
ATOM	5738	C4	C	A	277	137.661	75.532	-38.896	1.00	47.20	A16S
ATOM	5739	N4	C	A	277	138.171	75.531	-40.122	1.00	47.20	A16S
ATOM	5740	C5	C	A	277	136.259	75.659	-38.715	1.00	47.20	A16S
ATOM	5741	C2*	C	A	277	136.309	77.054	-34.471	1.00	59.79	A16S
ATOM	5742	O2*	C	A	277	136.633	77.004	-33.102	1.00	59.79	A16S
ATOM	5743	C3*	C	A	277	134.931	77.644	-34.722	1.00	59.79	A16S
ATOM	5744	O3*	C	A	277	134.699	78.727	-33.867	1.00	59.79	A16S
ATOM	5745	P	G	A	278	135.150	80.183	-34.341	1.00	63.49	A16S
ATOM	5746	O1P	G	A	278	134.779	81.157	-33.288	1.00	69.62	A16S
ATOM	5747	O2P	G	A	278	134.683	80.383	-35.742	1.00	69.62	A16S
ATOM	5748	O5*	G	A	278	136.734	80.091	-34.364	1.00	63.49	A16S
ATOM	5749	C5*	G	A	278	137.476	79.938	-33.148	1.00	63.49	A16S
ATOM	5750	C4*	G	A	278	138.953	80.079	-33.421	1.00	63.49	A16S
ATOM	5751	O4*	G	A	278	139.421	78.966	-34.223	1.00	63.49	A16S
ATOM	5752	C1*	G	A	278	140.426	79.413	-35.115	1.00	63.49	A16S
ATOM	5753	N9	G	A	278	139.990	79.146	-36.482	1.00	69.62	A16S
ATOM	5754	C4	G	A	278	140.787	79.121	-37.602	1.00	69.62	A16S
ATOM	5755	N3	G	A	278	142.125	79.299	-37.627	1.00	69.62	A16S
ATOM	5756	C2	G	A	278	142.609	79.234	-38.856	1.00	69.62	A16S
ATOM	5757	N2	G	A	278	143.930	79.361	-39.061	1.00	69.62	A16S
ATOM	5758	N1	G	A	278	141.835	79.032	-39.977	1.00	69.62	A16S
ATOM	5759	C6	G	A	278	140.456	78.849	-39.973	1.00	69.62	A16S
ATOM	5760	O6	G	A	278	139.853	78.679	-41.041	1.00	69.62	A16S
ATOM	5761	C5	G	A	278	139.929	78.895	-38.655	1.00	69.62	A16S
ATOM	5762	N7	G	A	278	138.627	78.744	-38.204	1.00	69.62	A16S
ATOM	5763	C8	G	A	278	138.711	78.896	-36.912	1.00	69.62	A16S
ATOM	5764	C2*	G	A	278	140.656	80.902	-34.849	1.00	63.49	A16S
ATOM	5765	O2*	G	A	278	141.731	81.042	-33.950	1.00	63.49	A16S
ATOM	5766	C3*	G	A	278	139.339	81.315	-34.211	1.00	63.49	A16S
ATOM	5767	O3*	G	A	278	139.490	82.425	-33.346	1.00	63.49	A16S
ATOM	5768	P	A	A	279	139.294	83.907	-33.914	1.00	54.86	A16S



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ATOM	5769	O1P	A	A	279	138.428	84.609	-32.959	1.00	57.74	A16S
ATOM	5770	O2P	A	A	279	138.868	83.796	-35.307	1.00	57.74	A16S
ATOM	5771	O5*	A	A	279	140.765	84.534	-33.857	1.00	54.86	A16S
ATOM	5772	C5*	A	A	279	141.238	85.300	-32.696	1.00	54.86	A16S
ATOM	5773	C4*	A	A	279	142.498	86.095	-33.044	1.00	54.86	A16S
ATOM	5774	O4*	A	A	279	143.635	85.195	-33.126	1.00	54.86	A16S
ATOM	5775	C1*	A	A	279	144.468	85.578	-34.205	1.00	54.86	A16S
ATOM	5776	N9	A	A	279	144.630	84.429	-35.095	1.00	57.74	A16S
ATOM	5777	C4	A	A	279	145.802	83.776	-35.340	1.00	57.74	A16S
ATOM	5778	N3	A	A	279	146.996	84.070	-34.832	1.00	57.74	A16S
ATOM	5779	C2	A	A	279	147.900	83.196	-35.254	1.00	57.74	A16S
ATOM	5780	N1	A	A	279	147.751	82.142	-36.075	1.00	57.74	A16S
ATOM	5781	C6	A	A	279	146.532	81.888	-36.582	1.00	57.74	A16S
ATOM	5782	N6	A	A	279	146.390	80.859	-37.417	1.00	57.74	A16S
ATOM	5783	C5	A	A	279	145.489	82.733	-36.200	1.00	57.74	A16S
ATOM	5784	N7	A	A	279	144.141	82.737	-36.509	1.00	57.74	A16S
ATOM	5785	C8	A	A	279	143.675	83.766	-35.836	1.00	57.74	A16S
ATOM	5786	C2*	A	A	279	143.864	86.814	-34.881	1.00	54.86	A16S
ATOM	5787	O2*	A	A	279	144.537	87.973	-34.481	1.00	54.86	A16S
ATOM	5788	C3*	A	A	279	142.421	86.799	-34.397	1.00	54.86	A16S
ATOM	5789	O3*	A	A	279	141.910	88.154	-34.394	1.00	54.86	A16S
ATOM	5790	P	C	A	280	142.001	89.094	-33.073	1.00	54.91	A16S
ATOM	5791	O1P	C	A	280	141.527	90.448	-33.488	1.00	81.00	A16S
ATOM	5792	O2P	C	A	280	143.326	88.951	-32.424	1.00	81.00	A16S
ATOM	5793	O5*	C	A	280	140.916	88.522	-32.064	1.00	54.91	A16S
ATOM	5794	C5*	C	A	280	140.988	88.854	-30.665	1.00	54.91	A16S
ATOM	5795	C4*	C	A	280	139.731	88.423	-29.962	1.00	54.91	A16S
ATOM	5796	O4*	C	A	280	138.630	89.269	-30.382	1.00	54.91	A16S
ATOM	5797	C1*	C	A	280	137.594	88.472	-30.908	1.00	54.91	A16S
ATOM	5798	N1	C	A	280	136.973	89.184	-32.029	1.00	81.00	A16S
ATOM	5799	C6	C	A	280	137.729	89.896	-32.920	1.00	81.00	A16S
ATOM	5800	C2	C	A	280	135.588	89.117	-32.177	1.00	81.00	A16S
ATOM	5801	O2	C	A	280	134.926	88.472	-31.347	1.00	81.00	A16S
ATOM	5802	N3	C	A	280	135.001	89.754	-33.217	1.00	81.00	A16S
ATOM	5803	C4	C	A	280	135.748	90.441	-34.086	1.00	81.00	A16S
ATOM	5804	N4	C	A	280	135.130	91.051	-35.101	1.00	81.00	A16S
ATOM	5805	C5	C	A	280	137.163	90.532	-33.952	1.00	81.00	A16S
ATOM	5806	C2*	C	A	280	138.240	87.153	-31.318	1.00	54.91	A16S
ATOM	5807	O2*	C	A	280	137.275	86.128	-31.303	1.00	54.91	A16S
ATOM	5808	C3*	C	A	280	139.312	86.991	-30.248	1.00	54.91	A16S
ATOM	5809	O3*	C	A	280	138.746	86.452	-29.066	1.00	54.91	A16S
ATOM	5810	P	G	A	281	139.663	85.597	-28.071	1.00	56.76	A16S
ATOM	5811	O1P	G	A	281	138.782	84.685	-27.302	1.00	57.60	A16S
ATOM	5812	O2P	G	A	281	140.564	86.545	-27.344	1.00	57.60	A16S
ATOM	5813	O5*	G	A	281	140.519	84.700	-29.062	1.00	56.76	A16S
ATOM	5814	C5*	G	A	281	139.990	83.494	-29.608	1.00	56.76	A16S
ATOM	5815	C4*	G	A	281	141.111	82.537	-29.822	1.00	56.76	A16S
ATOM	5816	O4*	G	A	281	142.025	83.209	-30.711	1.00	56.76	A16S
ATOM	5817	C1*	G	A	281	143.345	82.952	-30.306	1.00	56.76	A16S
ATOM	5818	N9	G	A	281	144.015	84.222	-30.094	1.00	57.60	A16S
ATOM	5819	C4	G	A	281	145.276	84.540	-30.505	1.00	57.60	A16S
ATOM	5820	N3	G	A	281	146.112	83.730	-31.184	1.00	57.60	A16S
ATOM	5821	C2	G	A	281	147.276	84.306	-31.416	1.00	57.60	A16S
ATOM	5822	N2	G	A	281	148.241	83.634	-32.069	1.00	57.60	A16S
ATOM	5823	N1	G	A	281	147.587	85.585	-31.019	1.00	57.60	A16S
ATOM	5824	C6	G	A	281	146.732	86.437	-30.326	1.00	57.60	A16S
ATOM	5825	O6	G	A	281	147.111	87.574	-30.013	1.00	57.60	A16S
ATOM	5826	C5	G	A	281	145.488	85.824	-30.070	1.00	57.60	A16S
ATOM	5827	N7	G	A	281	144.374	86.308	-29.413	1.00	57.60	A16S
ATOM	5828	C8	G	A	281	143.525	85.322	-29.452	1.00	57.60	A16S
ATOM	5829	C2*	G	A	281	143.323	82.013	-29.099	1.00	56.76	A16S
ATOM	5830	O2*	G	A	281	143.481	80.718	-29.612	1.00	56.76	A16S
ATOM	5831	C3*	G	A	281	141.917	82.213	-28.562	1.00	56.76	A16S
ATOM	5832	O3*	G	A	281	141.276	81.096	-27.886	1.00	56.76	A16S
ATOM	5833	P	A	A	282	142.096	79.765	-27.411	1.00	45.64	A16S
ATOM	5834	O1P	A	A	282	141.527	79.368	-26.089	1.00	59.68	A16S
ATOM	5835	O2P	A	A	282	143.562	79.917	-27.526	1.00	59.68	A16S
ATOM	5836	O5*	A	A	282	141.558	78.644	-28.417	1.00	45.64	A16S
ATOM	5837	C5*	A	A	282	140.134	78.347	-28.455	1.00	45.64	A16S
ATOM	5838	C4*	A	A	282	139.745	77.666	-29.743	1.00	45.64	A16S
ATOM	5839	O4*	A	A	282	140.239	78.435	-30.863	1.00	45.64	A16S
ATOM	5840	C1*	A	A	282	140.743	77.568	-31.857	1.00	45.64	A16S
ATOM	5841	N9	A	A	282	142.192	77.773	-31.897	1.00	59.68	A16S
ATOM	5842	C4	A	A	282	143.157	76.947	-32.429	1.00	59.68	A16S
ATOM	5843	N3	A	A	282	142.977	75.795	-33.093	1.00	59.68	A16S
ATOM	5844	C2	A	A	282	144.146	75.251	-33.408	1.00	59.68	A16S
ATOM	5845	N1	A	A	282	145.380	75.690	-33.150	1.00	59.68	A16S



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ATOM	5846	C6	A	A 282	145.523	76.850	-32.480	1.00	59.68	A16S
ATOM	5847	N6	A	A 282	146.746	77.285	-32.203	1.00	59.68	A16S
ATOM	5848	C5	A	A 282	144.367	77.530	-32.104	1.00	59.68	A16S
ATOM	5849	N7	A	A 282	144.172	78.724	-31.433	1.00	59.68	A16S
ATOM	5850	C8	A	A 282	142.870	78.826	-31.347	1.00	59.68	A16S
ATOM	5851	C2*	A	A 282	140.366	76.144	-31.441	1.00	45.64	A16S
ATOM	5852	O2*	A	A 282	139.123	75.810	-32.025	1.00	45.64	A16S
ATOM	5853	C3*	A	A 282	140.302	76.273	-29.926	1.00	45.64	A16S
ATOM	5854	O3*	A	A 282	139.397	75.335	-29.363	1.00	45.64	A16S
ATOM	5855	P	C	A 283	139.873	74.355	-28.174	1.00	63.41	A16S
ATOM	5856	O1P	C	A 283	138.772	73.362	-27.986	1.00	52.09	A16S
ATOM	5857	O2P	C	A 283	140.312	75.196	-27.019	1.00	52.09	A16S
ATOM	5858	O5*	C	A 283	141.129	73.573	-28.777	1.00	63.41	A16S
ATOM	5859	C5*	C	A 283	140.949	72.574	-29.802	1.00	63.41	A16S
ATOM	5860	C4*	C	A 283	142.285	72.107	-30.340	1.00	63.41	A16S
ATOM	5861	O4*	C	A 283	142.910	73.168	-31.104	1.00	63.41	A16S
ATOM	5862	C1*	C	A 283	144.304	73.178	-30.861	1.00	63.41	A16S
ATOM	5863	N1	C	A 283	144.604	74.416	-30.118	1.00	52.09	A16S
ATOM	5864	C6	C	A 283	143.596	75.262	-29.739	1.00	52.09	A16S
ATOM	5865	C2	C	A 283	145.925	74.703	-29.779	1.00	52.09	A16S
ATOM	5866	O2	C	A 283	146.822	73.943	-30.160	1.00	52.09	A16S
ATOM	5867	N3	C	A 283	146.189	75.801	-29.041	1.00	52.09	A16S
ATOM	5868	C4	C	A 283	145.194	76.598	-28.646	1.00	52.09	A16S
ATOM	5869	N4	C	A 283	145.496	77.643	-27.880	1.00	52.09	A16S
ATOM	5870	C5	C	A 283	143.845	76.352	-29.007	1.00	52.09	A16S
ATOM	5871	C2*	C	A 283	144.623	71.929	-30.037	1.00	63.41	A16S
ATOM	5872	O2*	C	A 283	144.889	70.844	-30.898	1.00	63.41	A16S
ATOM	5873	C3*	C	A 283	143.314	71.724	-29.298	1.00	63.41	A16S
ATOM	5874	O3*	C	A 283	143.139	70.402	-28.839	1.00	63.41	A16S
ATOM	5875	P	G	A 284	143.355	70.091	-27.280	1.00	50.91	A16S
ATOM	5876	O1P	G	A 284	143.060	68.647	-27.058	1.00	68.29	A16S
ATOM	5877	O2P	G	A 284	142.615	71.125	-26.501	1.00	68.29	A16S
ATOM	5878	O5*	G	A 284	144.916	70.333	-27.076	1.00	50.91	A16S
ATOM	5879	C5*	G	A 284	145.877	69.605	-27.862	1.00	50.91	A16S
ATOM	5880	C4*	G	A 284	147.274	70.105	-27.586	1.00	50.91	A16S
ATOM	5881	O4*	G	A 284	147.438	71.441	-28.122	1.00	50.91	A16S
ATOM	5882	C1*	G	A 284	148.328	72.173	-27.296	1.00	50.91	A16S
ATOM	5883	N9	G	A 284	147.633	73.344	-26.780	1.00	68.29	A16S
ATOM	5884	C4	G	A 284	148.213	74.422	-26.156	1.00	68.29	A16S
ATOM	5885	N3	G	A 284	149.530	74.590	-25.923	1.00	68.29	A16S
ATOM	5886	C2	G	A 284	149.782	75.727	-25.306	1.00	68.29	A16S
ATOM	5887	N2	G	A 284	151.041	76.059	-25.019	1.00	68.29	A16S
ATOM	5888	N1	G	A 284	148.821	76.624	-24.932	1.00	68.29	A16S
ATOM	5889	C6	G	A 284	147.456	76.469	-25.156	1.00	68.29	A16S
ATOM	5890	O6	G	A 284	146.662	77.340	-24.776	1.00	68.29	A16S
ATOM	5891	C5	G	A 284	147.172	75.257	-25.830	1.00	68.29	A16S
ATOM	5892	N7	G	A 284	145.961	74.721	-26.245	1.00	68.29	A16S
ATOM	5893	C8	G	A 284	146.285	73.588	-26.804	1.00	68.29	A16S
ATOM	5894	C2*	G	A 284	148.782	71.261	-26.162	1.00	50.91	A16S
ATOM	5895	O2*	G	A 284	150.020	70.697	-26.507	1.00	50.91	A16S
ATOM	5896	C3*	G	A 284	147.658	70.238	-26.122	1.00	50.91	A16S
ATOM	5897	O3*	G	A 284	148.068	69.007	-25.546	1.00	50.91	A16S
ATOM	5898	P	G	A 285	147.882	68.779	-23.964	1.00	55.85	A16S
ATOM	5899	O1P	G	A 285	148.265	67.369	-23.679	1.00	58.98	A16S
ATOM	5900	O2P	G	A 285	146.538	69.262	-23.576	1.00	58.98	A16S
ATOM	5901	O5*	G	A 285	148.961	69.763	-23.320	1.00	55.85	A16S
ATOM	5902	C5*	G	A 285	150.359	69.624	-23.641	1.00	55.85	A16S
ATOM	5903	C4*	G	A 285	151.180	70.718	-22.990	1.00	55.85	A16S
ATOM	5904	O4*	G	A 285	150.911	72.007	-23.599	1.00	55.85	A16S
ATOM	5905	C1*	G	A 285	151.092	73.029	-22.633	1.00	55.85	A16S
ATOM	5906	N9	G	A 285	149.872	73.814	-22.516	1.00	58.98	A16S
ATOM	5907	C4	G	A 285	149.741	74.972	-21.800	1.00	58.98	A16S
ATOM	5908	N3	G	A 285	150.717	75.579	-21.108	1.00	58.98	A16S
ATOM	5909	C2	G	A 285	150.294	76.679	-20.526	1.00	58.98	A16S
ATOM	5910	N2	G	A 285	151.154	77.426	-19.818	1.00	58.98	A16S
ATOM	5911	N1	G	A 285	149.006	77.137	-20.598	1.00	58.98	A16S
ATOM	5912	C6	G	A 285	147.981	76.521	-21.298	1.00	58.98	A16S
ATOM	5913	O6	G	A 285	146.850	77.014	-21.292	1.00	58.98	A16S
ATOM	5914	C5	G	A 285	148.429	75.349	-21.946	1.00	58.98	A16S
ATOM	5915	N7	G	A 285	147.747	74.451	-22.751	1.00	58.98	A16S
ATOM	5916	C8	G	A 285	148.644	73.557	-23.065	1.00	58.98	A16S
ATOM	5917	C2*	G	A 285	151.440	72.371	-21.301	1.00	55.85	A16S
ATOM	5918	O2*	G	A 285	152.827	72.458	-21.099	1.00	55.85	A16S
ATOM	5919	C3*	G	A 285	150.942	70.946	-21.512	1.00	55.85	A16S
ATOM	5920	O3*	G	A 285	151.640	70.017	-20.706	1.00	55.85	A16S
ATOM	5921	P	G	A 286	151.129	69.742	-19.211	1.00	43.98	A16S
ATOM	5922	O1P	G	A 286	152.127	68.857	-18.546	1.00	53.71	A16S



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ATOM	5923	O2P	G	A	286	149.695	69.337	-19.266	1.00	53.71	A16S
ATOM	5924	O5*	G	A	286	151.261	71.160	-18.518	1.00	43.98	A16S
ATOM	5925	C5*	G	A	286	152.550	71.687	-18.278	1.00	43.98	A16S
ATOM	5926	C4*	G	A	286	152.461	72.929	-17.449	1.00	43.98	A16S
ATOM	5927	O4*	G	A	286	151.872	73.999	-18.218	1.00	43.98	A16S
ATOM	5928	C1*	G	A	286	151.215	74.891	-17.345	1.00	43.98	A16S
ATOM	5929	N9	G	A	286	149.821	74.997	-17.760	1.00	53.71	A16S
ATOM	5930	C4	G	A	286	148.921	75.931	-17.322	1.00	53.71	A16S
ATOM	5931	N3	G	A	286	149.182	76.925	-16.457	1.00	53.71	A16S
ATOM	5932	C2	G	A	286	148.112	77.644	-16.202	1.00	53.71	A16S
ATOM	5933	N2	G	A	286	148.203	78.676	-15.360	1.00	53.71	A16S
ATOM	5934	N1	G	A	286	146.878	77.405	-16.754	1.00	53.71	A16S
ATOM	5935	C6	G	A	286	146.592	76.387	-17.652	1.00	53.71	A16S
ATOM	5936	O6	G	A	286	145.450	76.256	-18.090	1.00	53.71	A16S
ATOM	5937	C5	G	A	286	147.732	75.611	-17.934	1.00	53.71	A16S
ATOM	5938	N7	G	A	286	147.886	74.511	-18.761	1.00	53.71	A16S
ATOM	5939	C8	G	A	286	149.143	74.185	-18.632	1.00	53.71	A16S
ATOM	5940	C2*	G	A	286	151.365	74.333	-15.928	1.00	43.98	A16S
ATOM	5941	O2*	G	A	286	152.535	74.840	-15.326	1.00	43.98	A16S
ATOM	5942	C3*	G	A	286	151.602	72.868	-16.205	1.00	43.98	A16S
ATOM	5943	O3*	G	A	286	152.269	72.271	-15.115	1.00	43.98	A16S
ATOM	5944	P	U	A	287	151.402	71.518	-14.002	1.00	55.47	A16S
ATOM	5945	O1P	U	A	287	152.348	70.913	-13.025	1.00	57.26	A16S
ATOM	5946	O2P	U	A	287	150.398	70.654	-14.705	1.00	57.26	A16S
ATOM	5947	O5*	U	A	287	150.634	72.705	-13.278	1.00	55.47	A16S
ATOM	5948	C5*	U	A	287	151.356	73.654	-12.498	1.00	55.47	A16S
ATOM	5949	C4*	U	A	287	150.429	74.722	-11.991	1.00	55.47	A16S
ATOM	5950	O4*	U	A	287	149.941	75.500	-13.109	1.00	55.47	A16S
ATOM	5951	C1*	U	A	287	148.618	75.921	-12.850	1.00	55.47	A16S
ATOM	5952	N1	U	A	287	147.727	75.300	-13.834	1.00	57.26	A16S
ATOM	5953	C6	U	A	287	148.127	74.241	-14.601	1.00	57.26	A16S
ATOM	5954	C2	U	A	287	146.458	75.809	-13.938	1.00	57.26	A16S
ATOM	5955	O2	U	A	287	146.079	76.759	-13.294	1.00	57.26	A16S
ATOM	5956	N3	U	A	287	145.646	75.163	-14.823	1.00	57.26	A16S
ATOM	5957	C4	U	A	287	145.973	74.087	-15.607	1.00	57.26	A16S
ATOM	5958	O4	U	A	287	145.116	73.594	-16.340	1.00	57.26	A16S
ATOM	5959	C5	U	A	287	147.318	73.633	-15.461	1.00	57.26	A16S
ATOM	5960	C2*	U	A	287	148.246	75.434	-11.454	1.00	55.47	A16S
ATOM	5961	O2*	U	A	287	148.546	76.434	-10.510	1.00	55.47	A16S
ATOM	5962	C3*	U	A	287	149.167	74.241	-11.296	1.00	55.47	A16S
ATOM	5963	O3*	U	A	287	149.362	73.920	-9.931	1.00	55.47	A16S
ATOM	5964	P	A	A	288	148.276	73.002	-9.176	1.00	58.77	A16S
ATOM	5965	O1P	A	A	288	148.684	73.002	-7.746	1.00	65.90	A16S
ATOM	5966	O2P	A	A	288	148.053	71.708	-9.874	1.00	65.90	A16S
ATOM	5967	O5*	A	A	288	146.946	73.853	-9.301	1.00	58.77	A16S
ATOM	5968	C5*	A	A	288	146.859	75.122	-8.652	1.00	58.77	A16S
ATOM	5969	C4*	A	A	288	145.457	75.635	-8.717	1.00	58.77	A16S
ATOM	5970	O4*	A	A	288	145.137	75.970	-10.083	1.00	58.77	A16S
ATOM	5971	C1*	A	A	288	143.796	75.642	-10.342	1.00	58.77	A16S
ATOM	5972	N9	A	A	288	143.788	74.631	-11.386	1.00	65.90	A16S
ATOM	5973	C4	A	A	288	142.712	74.298	-12.155	1.00	65.90	A16S
ATOM	5974	N3	A	A	288	141.491	74.853	-12.115	1.00	65.90	A16S
ATOM	5975	C2	A	A	288	140.682	74.250	-12.976	1.00	65.90	A16S
ATOM	5976	N1	A	A	288	140.938	73.231	-13.811	1.00	65.90	A16S
ATOM	5977	C6	A	A	288	142.185	72.705	-13.829	1.00	65.90	A16S
ATOM	5978	N6	A	A	288	142.445	71.696	-14.664	1.00	65.90	A16S
ATOM	5979	C5	A	A	288	143.133	73.258	-12.962	1.00	65.90	A16S
ATOM	5980	N7	A	A	288	144.463	72.958	-12.724	1.00	65.90	A16S
ATOM	5981	C8	A	A	288	144.807	73.805	-11.786	1.00	65.90	A16S
ATOM	5982	C2*	A	A	288	143.179	75.135	-9.037	1.00	58.77	A16S
ATOM	5983	O2*	A	A	288	142.601	76.229	-8.368	1.00	58.77	A16S
ATOM	5984	C3*	A	A	288	144.402	74.634	-8.289	1.00	58.77	A16S
ATOM	5985	O3*	A	A	288	144.278	74.667	-6.871	1.00	58.77	A16S
ATOM	5986	P	G	A	289	143.359	73.588	-6.106	1.00	56.97	A16S
ATOM	5987	O1P	G	A	289	143.856	73.576	-4.702	1.00	58.96	A16S
ATOM	5988	O2P	G	A	289	143.223	72.296	-6.847	1.00	58.96	A16S
ATOM	5989	O5*	G	A	289	141.936	74.298	-6.116	1.00	56.97	A16S
ATOM	5990	C5*	G	A	289	140.738	73.526	-6.095	1.00	56.97	A16S
ATOM	5991	C4*	G	A	289	139.879	73.852	-7.292	1.00	56.97	A16S
ATOM	5992	O4*	G	A	289	138.889	72.804	-7.402	1.00	56.97	A16S
ATOM	5993	C1*	G	A	289	137.610	73.376	-7.533	1.00	56.97	A16S
ATOM	5994	N9	G	A	289	136.975	73.347	-6.214	1.00	58.96	A16S
ATOM	5995	C4	G	A	289	135.645	73.521	-5.963	1.00	58.96	A16S
ATOM	5996	N3	G	A	289	134.702	73.779	-6.886	1.00	58.96	A16S
ATOM	5997	C2	G	A	289	133.505	73.873	-6.351	1.00	58.96	A16S
ATOM	5998	N2	G	A	289	132.454	74.139	-7.144	1.00	58.96	A16S
ATOM	5999	N1	G	A	289	133.248	73.715	-5.007	1.00	58.96	A16S



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ATOM	6000	C6	G	A	289	134.208	73.439	-4.039	1.00	58.96	A16S
ATOM	6001	O6	G	A	289	133.872	73.288	-2.864	1.00	58.96	A16S
ATOM	6002	C5	G	A	289	135.501	73.356	-4.600	1.00	58.96	A16S
ATOM	6003	N7	G	A	289	136.726	73.115	-4.000	1.00	58.96	A16S
ATOM	6004	C8	G	A	289	137.573	73.124	-4.992	1.00	58.96	A16S
ATOM	6005	C2*	G	A	289	137.845	74.797	-8.026	1.00	56.97	A16S
ATOM	6006	O2*	G	A	289	138.073	74.773	-9.423	1.00	56.97	A16S
ATOM	6007	C3*	G	A	289	139.093	75.157	-7.249	1.00	56.97	A16S
ATOM	6008	O3*	G	A	289	139.757	76.247	-7.863	1.00	56.97	A16S
ATOM	6009	P	C	A	290	139.444	77.747	-7.367	1.00	52.67	A16S
ATOM	6010	O1P	C	A	290	140.293	78.658	-8.146	1.00	63.55	A16S
ATOM	6011	O2P	C	A	290	139.530	77.763	-5.888	1.00	63.55	A16S
ATOM	6012	O5*	C	A	290	137.923	78.007	-7.770	1.00	52.67	A16S
ATOM	6013	C5*	C	A	290	137.560	78.332	-9.122	1.00	52.67	A16S
ATOM	6014	C4*	C	A	290	136.120	78.803	-9.195	1.00	52.67	A16S
ATOM	6015	O4*	C	A	290	135.229	77.692	-8.913	1.00	52.67	A16S
ATOM	6016	C1*	C	A	290	134.068	78.169	-8.241	1.00	52.67	A16S
ATOM	6017	N1	C	A	290	134.055	77.647	-6.859	1.00	63.55	A16S
ATOM	6018	C6	C	A	290	135.222	77.368	-6.195	1.00	63.55	A16S
ATOM	6019	C2	C	A	290	132.822	77.484	-6.214	1.00	63.55	A16S
ATOM	6020	O2	C	A	290	131.774	77.680	-6.850	1.00	63.55	A16S
ATOM	6021	N3	C	A	290	132.805	77.111	-4.918	1.00	63.55	A16S
ATOM	6022	C4	C	A	290	133.948	76.878	-4.277	1.00	63.55	A16S
ATOM	6023	N4	C	A	290	133.877	76.542	-3.002	1.00	63.55	A16S
ATOM	6024	C5	C	A	290	135.213	76.988	-4.919	1.00	63.55	A16S
ATOM	6025	C2*	C	A	290	134.175	79.691	-8.176	1.00	52.67	A16S
ATOM	6026	O2*	C	A	290	133.544	80.271	-9.301	1.00	52.67	A16S
ATOM	6027	C3*	C	A	290	135.679	79.883	-8.214	1.00	52.67	A16S
ATOM	6028	O3*	C	A	290	135.991	81.201	-8.603	1.00	52.67	A16S
ATOM	6029	P	C	A	291	136.222	82.308	-7.468	1.00	48.78	A16S
ATOM	6030	O1P	C	A	291	136.660	83.552	-8.139	1.00	66.55	A16S
ATOM	6031	O2P	C	A	291	137.075	81.695	-6.406	1.00	66.55	A16S
ATOM	6032	O5*	C	A	291	134.775	82.549	-6.859	1.00	48.78	A16S
ATOM	6033	C5*	C	A	291	133.710	83.020	-7.690	1.00	48.78	A16S
ATOM	6034	C4*	C	A	291	132.399	83.016	-6.936	1.00	48.78	A16S
ATOM	6035	O4*	C	A	291	132.135	81.681	-6.428	1.00	48.78	A16S
ATOM	6036	C1*	C	A	291	131.404	81.776	-5.220	1.00	48.78	A16S
ATOM	6037	N1	C	A	291	132.194	81.170	-4.139	1.00	66.55	A16S
ATOM	6038	C6	C	A	291	133.558	81.213	-4.154	1.00	66.55	A16S
ATOM	6039	C2	C	A	291	131.521	80.573	-3.070	1.00	66.55	A16S
ATOM	6040	O2	C	A	291	130.280	80.514	-3.095	1.00	66.55	A16S
ATOM	6041	N3	C	A	291	132.233	80.077	-2.037	1.00	66.55	A16S
ATOM	6042	C4	C	A	291	133.561	80.155	-2.047	1.00	66.55	A16S
ATOM	6043	N4	C	A	291	134.217	79.686	-0.990	1.00	66.55	A16S
ATOM	6044	C5	C	A	291	134.273	80.725	-3.137	1.00	66.55	A16S
ATOM	6045	C2*	C	A	291	131.155	83.260	-4.941	1.00	48.78	A16S
ATOM	6046	O2*	C	A	291	129.889	83.641	-5.443	1.00	48.78	A16S
ATOM	6047	C3*	C	A	291	132.292	83.911	-5.710	1.00	48.78	A16S
ATOM	6048	O3*	C	A	291	131.988	85.258	-6.027	1.00	48.78	A16S
ATOM	6049	P	G	A	292	132.331	86.410	-4.965	1.00	55.88	A16S
ATOM	6050	O1P	G	A	292	132.027	87.704	-5.610	1.00	55.31	A16S
ATOM	6051	O2P	G	A	292	133.678	86.175	-4.416	1.00	55.31	A16S
ATOM	6052	O5* G	A	292	131.292	86.158	-3.786	1.00	55.88	A16S	
ATOM	6053	C5* G	A	292	129.872	86.300	-4.003	1.00	55.88	A16S	
ATOM	6054	C4* G	A	292	129.118	86.142	-2.696	1.00	55.88	A16S	
ATOM	6055	O4* G	A	292	129.272	84.783	-2.212	1.00	55.88	A16S	
ATOM	6056	C1* G	A	292	129.351	84.785	-0.797	1.00	55.88	A16S	
ATOM	6057	N9	G	A	292	130.674	84.323	-0.395	1.00	55.31	A16S
ATOM	6058	C4	G	A	292	130.973	83.679	0.776	1.00	55.31	A16S
ATOM	6059	N3	G	A	292	130.083	83.323	1.731	1.00	55.31	A16S
ATOM	6060	C2	G	A	292	130.670	82.749	2.761	1.00	55.31	A16S
ATOM	6061	N2	G	A	292	129.925	82.371	3.813	1.00	55.31	A16S
ATOM	6062	N1	G	A	292	132.033	82.517	2.837	1.00	55.31	A16S
ATOM	6063	C6	G	A	292	132.967	82.879	1.859	1.00	55.31	A16S
ATOM	6064	O6	G	A	292	134.174	82.643	2.026	1.00	55.31	A16S
ATOM	6065	C5	G	A	292	132.343	83.510	0.759	1.00	55.31	A16S
ATOM	6066	N7	G	A	292	132.888	84.019	-0.409	1.00	55.31	A16S
ATOM	6067	C8	G	A	292	131.862	84.479	-1.069	1.00	55.31	A16S
ATOM	6068	C2* G	A	292	129.172	86.222	-0.318	1.00	55.88	A16S	
ATOM	6069	O2* G	A	292	127.832	86.451	0.045	1.00	55.88	A16S	
ATOM	6070	C3* G	A	292	129.609	87.007	-1.543	1.00	55.88	A16S	
ATOM	6071	O3* G	A	292	129.078	88.324	-1.535	1.00	55.88	A16S	
ATOM	6072	P	G	A	293	129.931	89.506	-0.859	1.00	44.32	A16S
ATOM	6073	O1P	G	A	293	129.054	90.715	-0.838	1.00	69.94	A16S
ATOM	6074	O2P	G	A	293	131.262	89.565	-1.526	1.00	69.94	A16S
ATOM	6075	O5* G	A	293	130.147	89.011	0.635	1.00	44.32	A16S	
ATOM	6076	C5* G	A	293	131.256	89.470	1.391	1.00	44.32	A16S	







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ATOM	6077	C4*	G	A	293	132.056	88.298	1.879	1.00	44.32	A16S
ATOM	6078	O4*	G	A	293	132.321	87.364	0.797	1.00	44.32	A16S
ATOM	6079	C1*	G	A	293	133.635	86.837	0.931	1.00	44.32	A16S
ATOM	6080	N9	G	A	293	134.404	87.192	-0.257	1.00	69.94	A16S
ATOM	6081	C4	G	A	293	135.686	86.801	-0.528	1.00	69.94	A16S
ATOM	6082	N3	G	A	293	136.443	86.008	0.246	1.00	69.94	A16S
ATOM	6083	C2	G	A	293	137.645	85.834	-0.260	1.00	69.94	A16S
ATOM	6084	N2	G	A	293	138.535	85.092	0.402	1.00	69.94	A16S
ATOM	6085	N1	G	A	293	138.069	86.381	-1.446	1.00	69.94	A16S
ATOM	6086	C6	G	A	293	137.306	87.200	-2.266	1.00	69.94	A16S
ATOM	6087	O6	G	A	293	137.790	87.652	-3.323	1.00	69.94	A16S
ATOM	6088	C5	G	A	293	136.009	87.404	-1.723	1.00	69.94	A16S
ATOM	6089	N7	G	A	293	134.941	88.145	-2.204	1.00	69.94	A16S
ATOM	6090	C8	G	A	293	134.011	87.987	-1.304	1.00	69.94	A16S
ATOM	6091	C2*	G	A	293	134.260	87.438	2.194	1.00	44.32	A16S
ATOM	6092	O2*	G	A	293	134.215	86.499	3.254	1.00	44.32	A16S
ATOM	6093	C3*	G	A	293	133.419	88.696	2.386	1.00	44.32	A16S
ATOM	6094	O3*	G	A	293	133.324	89.146	3.707	1.00	44.32	A16S
ATOM	6095	P	U	A	294	134.146	90.432	4.127	1.00	53.32	A16S
ATOM	6096	O1P	U	A	294	133.762	90.796	5.499	1.00	57.22	A16S
ATOM	6097	O2P	U	A	294	133.990	91.427	3.032	1.00	57.22	A16S
ATOM	6098	O5*	U	A	294	135.633	89.876	4.179	1.00	53.32	A16S
ATOM	6099	C5*	U	A	294	135.905	88.701	4.952	1.00	53.32	A16S
ATOM	6100	C4*	U	A	294	137.295	88.185	4.686	1.00	53.32	A16S
ATOM	6101	O4*	U	A	294	137.394	87.578	3.376	1.00	53.32	A16S
ATOM	6102	C1*	U	A	294	138.690	87.806	2.850	1.00	53.32	A16S
ATOM	6103	N1	U	A	294	138.533	88.537	1.588	1.00	57.22	A16S
ATOM	6104	C6	U	A	294	137.373	89.198	1.323	1.00	57.22	A16S
ATOM	6105	C2	U	A	294	139.574	88.529	0.680	1.00	57.22	A16S
ATOM	6106	O2	U	A	294	140.636	87.981	0.884	1.00	57.22	A16S
ATOM	6107	N3	U	A	294	139.322	89.200	-0.481	1.00	57.22	A16S
ATOM	6108	C4	U	A	294	138.168	89.877	-0.809	1.00	57.22	A16S
ATOM	6109	O4	U	A	294	138.075	90.436	-1.904	1.00	57.22	A16S
ATOM	6110	C5	U	A	294	137.160	89.849	0.192	1.00	57.22	A16S
ATOM	6111	C2*	U	A	294	139.500	88.561	3.907	1.00	53.32	A16S
ATOM	6112	O2*	U	A	294	140.245	87.618	4.651	1.00	53.32	A16S
ATOM	6113	C3*	U	A	294	138.400	89.213	4.734	1.00	53.32	A16S
ATOM	6114	O3*	U	A	294	138.781	89.440	6.076	1.00	53.32	A16S
ATOM	6115	P	C	A	295	139.151	90.924	6.536	1.00	52.49	A16S
ATOM	6116	O1P	C	A	295	139.285	90.953	8.030	1.00	51.78	A16S
ATOM	6117	O2P	C	A	295	138.168	91.830	5.854	1.00	51.78	A16S
ATOM	6118	O5*	C	A	295	140.598	91.132	5.905	1.00	52.49	A16S
ATOM	6119	C5*	C	A	295	141.698	90.341	6.375	1.00	52.49	A16S
ATOM	6120	C4*	C	A	295	142.913	90.528	5.505	1.00	52.49	A16S
ATOM	6121	O4*	C	A	295	142.709	89.908	4.216	1.00	52.49	A16S
ATOM	6122	C1*	C	A	295	143.437	90.617	3.236	1.00	52.49	A16S
ATOM	6123	N1	C	A	295	142.497	91.119	2.229	1.00	51.78	A16S
ATOM	6124	C6	C	A	295	141.160	91.182	2.486	1.00	51.78	A16S
ATOM	6125	C2	C	A	295	142.995	91.541	0.995	1.00	51.78	A16S
ATOM	6126	O2	C	A	295	144.212	91.476	0.787	1.00	51.78	A16S
ATOM	6127	N3	C	A	295	142.144	92.011	0.063	1.00	51.78	A16S
ATOM	6128	C4	C	A	295	140.845	92.073	0.328	1.00	51.78	A16S
ATOM	6129	N4	C	A	295	140.047	92.554	-0.610	1.00	51.78	A16S
ATOM	6130	C5	C	A	295	140.308	91.648	1.572	1.00	51.78	A16S
ATOM	6131	C2*	C	A	295	144.178	91.750	3.938	1.00	52.49	A16S
ATOM	6132	O2*	C	A	295	145.466	91.284	4.286	1.00	52.49	A16S
ATOM	6133	C3*	C	A	295	143.320	91.947	5.171	1.00	52.49	A16S
ATOM	6134	O3*	C	A	295	144.030	92.566	6.217	1.00	52.49	A16S
ATOM	6135	P	U	A	296	143.754	94.115	6.521	1.00	50.69	A16S
ATOM	6136	O1P	U	A	296	144.291	94.443	7.878	1.00	54.72	A16S
ATOM	6137	O2P	U	A	296	142.308	94.356	6.226	1.00	54.72	A16S
ATOM	6138	O5*	U	A	296	144.592	94.864	5.390	1.00	50.69	A16S
ATOM	6139	C5*	U	A	296	146.005	94.655	5.271	1.00	50.69	A16S
ATOM	6140	C4*	U	A	296	146.490	95.100	3.917	1.00	50.69	A16S
ATOM	6141	O4*	U	A	296	145.885	94.287	2.883	1.00	50.69	A16S
ATOM	6142	C1*	U	A	296	145.709	95.068	1.720	1.00	50.69	A16S
ATOM	6143	N1	U	A	296	144.290	95.042	1.360	1.00	54.72	A16S
ATOM	6144	C6	U	A	296	143.325	94.681	2.264	1.00	54.72	A16S
ATOM	6145	C2	U	A	296	143.959	95.418	0.075	1.00	54.72	A16S
ATOM	6146	O2	U	A	296	144.797	95.710	-0.766	1.00	54.72	A16S
ATOM	6147	N3	U	A	296	142.615	95.436	-0.193	1.00	54.72	A16S
ATOM	6148	C4	U	A	296	141.599	95.104	0.666	1.00	54.72	A16S
ATOM	6149	O4	U	A	296	140.438	95.166	0.275	1.00	54.72	A16S
ATOM	6150	C5	U	A	296	142.025	94.697	1.968	1.00	54.72	A16S
ATOM	6151	C2*	U	A	296	146.183	96.498	2.012	1.00	50.69	A16S
ATOM	6152	O2*	U	A	296	147.457	96.712	1.437	1.00	50.69	A16S
ATOM	6153	C3*	U	A	296	146.169	96.534	3.538	1.00	50.69	A16S



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ATOM	6154	O3*	U	A	296	147.169	97.402	4.052	1.00	50.69	A16S
ATOM	6155	P	G	A	297	146.828	98.951	4.292	1.00	42.14	A16S
ATOM	6156	O1P	G	A	297	148.102	99.648	4.636	1.00	69.03	A16S
ATOM	6157	O2P	G	A	297	145.687	99.045	5.215	1.00	69.03	A16S
ATOM	6158	O5*	G	A	297	146.303	99.424	2.872	1.00	42.14	A16S
ATOM	6159	C5*	G	A	297	147.228	99.714	1.829	1.00	42.14	A16S
ATOM	6160	C4*	G	A	297	146.497	100.192	0.613	1.00	42.14	A16S
ATOM	6161	O4*	G	A	297	145.672	99.121	0.093	1.00	42.14	A16S
ATOM	6162	C1*	G	A	297	144.573	99.674	-0.610	1.00	42.14	A16S
ATOM	6163	N9	G	A	297	143.345	99.122	-0.063	1.00	69.03	A16S
ATOM	6164	C4	G	A	297	142.111	99.171	-0.645	1.00	69.03	A16S
ATOM	6165	N3	G	A	297	141.833	99.684	-1.856	1.00	69.03	A16S
ATOM	6166	C2	G	A	297	140.545	99.611	-2.138	1.00	69.03	A16S
ATOM	6167	N2	G	A	297	140.100	100.049	-3.323	1.00	69.03	A16S
ATOM	6168	N1	G	A	297	139.599	99.096	-1.283	1.00	69.03	A16S
ATOM	6169	C6	G	A	297	139.864	98.565	-0.023	1.00	69.03	A16S
ATOM	6170	O6	G	A	297	138.929	98.137	0.688	1.00	69.03	A16S
ATOM	6171	C5	G	A	297	141.252	98.612	0.272	1.00	69.03	A16S
ATOM	6172	N7	G	A	297	141.944	98.170	1.387	1.00	69.03	A16S
ATOM	6173	C8	G	A	297	143.184	98.489	1.142	1.00	69.03	A16S
ATOM	6174	C2*	G	A	297	144.639	101.193	-0.439	1.00	42.14	A16S
ATOM	6175	O2*	G	A	297	145.315	101.754	-1.545	1.00	42.14	A16S
ATOM	6176	C3*	G	A	297	145.510	101.331	0.794	1.00	42.14	A16S
ATOM	6177	O3*	G	A	297	146.146	102.591	0.804	1.00	42.14	A16S
ATOM	6178	P	A	A	298	145.640	103.710	1.832	1.00	45.10	A16S
ATOM	6179	O1P	A	A	298	146.593	104.855	1.870	1.00	59.58	A16S
ATOM	6180	O2P	A	A	298	145.355	102.959	3.081	1.00	59.58	A16S
ATOM	6181	O5*	A	A	298	144.269	104.227	1.193	1.00	45.10	A16S
ATOM	6182	C5*	A	A	298	143.269	104.858	2.014	1.00	45.10	A16S
ATOM	6183	C4*	A	A	298	142.364	105.712	1.181	1.00	45.10	A16S
ATOM	6184	O4*	A	A	298	143.138	106.780	0.600	1.00	45.10	A16S
ATOM	6185	C1*	A	A	298	142.686	107.024	-0.721	1.00	45.10	A16S
ATOM	6186	N9	A	A	298	143.808	106.847	-1.652	1.00	59.58	A16S
ATOM	6187	C4	A	A	298	143.910	107.411	-2.904	1.00	59.58	A16S
ATOM	6188	N3	A	A	298	143.012	108.195	-3.522	1.00	59.58	A16S
ATOM	6189	C2	A	A	298	143.454	108.566	-4.720	1.00	59.58	A16S
ATOM	6190	N1	A	A	298	144.607	108.277	-5.325	1.00	59.58	A16S
ATOM	6191	C6	A	A	298	145.497	107.493	-4.680	1.00	59.58	A16S
ATOM	6192	N6	A	A	298	146.663	107.223	-5.283	1.00	59.58	A16S
ATOM	6193	C5	A	A	298	145.138	107.013	-3.399	1.00	59.58	A16S
ATOM	6194	N7	A	A	298	145.789	106.188	-2.490	1.00	59.58	A16S
ATOM	6195	C8	A	A	298	144.961	106.121	-1.476	1.00	59.58	A16S
ATOM	6196	C2*	A	A	298	141.498	106.096	-0.995	1.00	45.10	A16S
ATOM	6197	O2*	A	A	298	140.307	106.813	-0.753	1.00	45.10	A16S
ATOM	6198	C3*	A	A	298	141.723	104.983	0.017	1.00	45.10	A16S
ATOM	6199	O3*	A	A	298	140.493	104.418	0.437	1.00	45.10	A16S
ATOM	6200	P	G	A	299	140.188	102.861	0.168	1.00	37.25	A16S
ATOM	6201	O1P	G	A	299	138.998	102.432	0.969	1.00	70.53	A16S
ATOM	6202	O2P	G	A	299	141.480	102.125	0.337	1.00	70.53	A16S
ATOM	6203	O5*	G	A	299	139.750	102.833	-1.362	1.00	37.25	A16S
ATOM	6204	C5*	G	A	299	138.546	103.484	-1.782	1.00	37.25	A16S
ATOM	6205	C4*	G	A	299	138.701	104.012	-3.186	1.00	37.25	A16S
ATOM	6206	O4*	G	A	299	139.924	104.780	-3.245	1.00	37.25	A16S
ATOM	6207	C1*	G	A	299	140.522	104.614	-4.509	1.00	37.25	A16S
ATOM	6208	N9	G	A	299	141.899	104.184	-4.297	1.00	70.53	A16S
ATOM	6209	C4	G	A	299	142.976	104.462	-5.108	1.00	70.53	A16S
ATOM	6210	N3	G	A	299	142.936	105.146	-6.271	1.00	70.53	A16S
ATOM	6211	C2	G	A	299	144.126	105.262	-6.814	1.00	70.53	A16S
ATOM	6212	N2	G	A	299	144.252	105.885	-7.983	1.00	70.53	A16S
ATOM	6213	N1	G	A	299	145.277	104.769	-6.257	1.00	70.53	A16S
ATOM	6214	C6	G	A	299	145.349	104.065	-5.059	1.00	70.53	A16S
ATOM	6215	O6	G	A	299	146.448	103.661	-4.641	1.00	70.53	A16S
ATOM	6216	C5	G	A	299	144.065	103.913	-4.471	1.00	70.53	A16S
ATOM	6217	N7	G	A	299	143.679	103.278	-3.298	1.00	70.53	A16S
ATOM	6218	C8	G	A	299	142.388	103.460	-3.239	1.00	70.53	A16S
ATOM	6219	C2*	G	A	299	139.638	103.687	-5.353	1.00	37.25	A16S
ATOM	6220	O2*	G	A	299	138.820	104.466	-6.202	1.00	37.25	A16S
ATOM	6221	C3*	G	A	299	138.817	102.972	-4.290	1.00	37.25	A16S
ATOM	6222	O3*	G	A	299	137.522	102.702	-4.801	1.00	37.25	A16S
ATOM	6223	P	A	A	300	137.202	101.276	-5.437	1.00	55.44	A16S
ATOM	6224	O1P	A	A	300	135.774	101.236	-5.848	1.00	64.53	A16S
ATOM	6225	O2P	A	A	300	137.712	100.264	-4.485	1.00	64.53	A16S
ATOM	6226	O5*	A	A	300	138.115	101.226	-6.742	1.00	55.44	A16S
ATOM	6227	C5*	A	A	300	137.716	101.891	-7.956	1.00	55.44	A16S
ATOM	6228	C4*	A	A	300	138.814	101.810	-8.998	1.00	55.44	A16S
ATOM	6229	O4*	A	A	300	139.972	102.578	-8.563	1.00	55.44	A16S
ATOM	6230	C1*	A	A	300	141.152	101.913	-8.958	1.00	55.44	A16S



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ATOM	6231	N9	A	A	300	141.796	101.425	-7.749	1.00	64.53	A16S
ATOM	6232	C4	A	A	300	143.112	101.554	-7.398	1.00	64.53	A16S
ATOM	6233	N3	A	A	300	144.082	102.161	-8.095	1.00	64.53	A16S
ATOM	6234	C2	A	A	300	145.242	102.093	-7.437	1.00	64.53	A16S
ATOM	6235	N1	A	A	300	145.516	101.533	-6.246	1.00	64.53	A16S
ATOM	6236	C6	A	A	300	144.513	100.936	-5.574	1.00	64.53	A16S
ATOM	6237	N6	A	A	300	144.783	100.388	-4.390	1.00	64.53	A16S
ATOM	6238	C5	A	A	300	143.238	100.934	-6.169	1.00	64.53	A16S
ATOM	6239	N7	A	A	300	142.021	100.424	-5.757	1.00	64.53	A16S
ATOM	6240	C8	A	A	300	141.204	100.742	-6.727	1.00	64.53	A16S
ATOM	6241	C2*	A	A	300	140.737	100.748	-9.853	1.00	55.44	A16S
ATOM	6242	O2*	A	A	300	140.641	101.208	-11.188	1.00	55.44	A16S
ATOM	6243	C3*	A	A	300	139.355	100.423	-9.310	1.00	55.44	A16S
ATOM	6244	O3*	A	A	300	138.578	99.765	-10.299	1.00	55.44	A16S
ATOM	6245	P	G	A	301	138.373	98.164	-10.233	1.00	46.08	A16S
ATOM	6246	O1P	G	A	301	137.907	97.754	-11.600	1.00	71.39	A16S
ATOM	6247	O2P	G	A	301	137.535	97.851	-9.045	1.00	71.39	A16S
ATOM	6248	O5*	G	A	301	139.823	97.554	-9.953	1.00	46.08	A16S
ATOM	6249	C5*	G	A	301	140.883	97.733	-10.897	1.00	46.08	A16S
ATOM	6250	C4*	G	A	301	142.229	97.497	-10.250	1.00	46.08	A16S
ATOM	6251	O4*	G	A	301	142.367	98.320	-9.059	1.00	46.08	A16S
ATOM	6252	C1*	G	A	301	143.246	97.674	-8.144	1.00	46.08	A16S
ATOM	6253	N9	G	A	301	142.572	97.460	-6.863	1.00	71.39	A16S
ATOM	6254	C4	G	A	301	143.181	97.083	-5.689	1.00	71.39	A16S
ATOM	6255	N3	G	A	301	144.500	96.847	-5.520	1.00	71.39	A16S
ATOM	6256	C2	G	A	301	144.781	96.474	-4.279	1.00	71.39	A16S
ATOM	6257	N2	G	A	301	146.051	96.175	-3.941	1.00	71.39	A16S
ATOM	6258	N1	G	A	301	143.839	96.359	-3.285	1.00	71.39	A16S
ATOM	6259	C6	G	A	301	142.480	96.600	-3.441	1.00	71.39	A16S
ATOM	6260	O6	G	A	301	141.719	96.464	-2.482	1.00	71.39	A16S
ATOM	6261	C5	G	A	301	142.166	96.986	-4.765	1.00	71.39	A16S
ATOM	6262	N7	G	A	301	140.944	97.296	-5.340	1.00	71.39	A16S
ATOM	6263	C8	G	A	301	141.233	97.571	-6.583	1.00	71.39	A16S
ATOM	6264	C2*	G	A	301	143.675	96.347	-8.771	1.00	46.08	A16S
ATOM	6265	O2*	G	A	301	144.898	96.543	-9.427	1.00	46.08	A16S
ATOM	6266	C3*	G	A	301	142.566	96.089	-9.779	1.00	46.08	A16S
ATOM	6267	O3*	G	A	301	143.072	95.289	-10.839	1.00	46.08	A16S
ATOM	6268	P	G	A	302	143.381	93.721	-10.599	1.00	45.01	A16S
ATOM	6269	O1P	G	A	302	144.003	93.234	-11.868	1.00	51.14	A16S
ATOM	6270	O2P	G	A	302	142.169	93.030	-10.067	1.00	51.14	A16S
ATOM	6271	O5*	G	A	302	144.497	93.689	-9.462	1.00	45.01	A16S
ATOM	6272	C5*	G	A	302	145.861	93.990	-9.765	1.00	45.01	A16S
ATOM	6273	C4*	G	A	302	146.734	93.631	-8.603	1.00	45.01	A16S
ATOM	6274	O4*	G	A	302	146.366	94.418	-7.443	1.00	45.01	A16S
ATOM	6275	C1*	G	A	302	146.420	93.613	-6.282	1.00	45.01	A16S
ATOM	6276	N9	G	A	302	145.068	93.531	-5.741	1.00	51.14	A16S
ATOM	6277	C4	G	A	302	144.699	93.228	-4.447	1.00	51.14	A16S
ATOM	6278	N3	G	A	302	145.530	92.958	-3.422	1.00	51.14	A16S
ATOM	6279	C2	G	A	302	144.867	92.712	-2.309	1.00	51.14	A16S
ATOM	6280	N2	G	A	302	145.527	92.448	-1.193	1.00	51.14	A16S
ATOM	6281	N1	G	A	302	143.509	92.718	-2.209	1.00	51.14	A16S
ATOM	6282	C6	G	A	302	142.639	92.996	-3.249	1.00	51.14	A16S
ATOM	6283	O6	G	A	302	141.424	92.984	-3.055	1.00	51.14	A16S
ATOM	6284	C5	G	A	302	143.325	93.267	-4.442	1.00	51.14	A16S
ATOM	6285	N7	G	A	302	142.835	93.585	-5.699	1.00	51.14	A16S
ATOM	6286	C8	G	A	302	143.902	93.733	-6.434	1.00	51.14	A16S
ATOM	6287	C2*	G	A	302	146.941	92.237	-6.705	1.00	45.01	A16S
ATOM	6288	O2*	G	A	302	148.349	92.149	-6.559	1.00	45.01	A16S
ATOM	6289	C3*	G	A	302	146.555	92.201	-8.168	1.00	45.01	A16S
ATOM	6290	O3*	G	A	302	147.415	91.361	-8.886	1.00	45.01	A16S
ATOM	6291	P	A	A	303	147.078	89.808	-8.976	1.00	61.16	A16S
ATOM	6292	O1P	A	A	303	148.247	89.190	-9.647	1.00	58.03	A16S
ATOM	6293	O2P	A	A	303	145.718	89.663	-9.562	1.00	58.03	A16S
ATOM	6294	O5*	A	A	303	147.013	89.332	-7.454	1.00	61.16	A16S
ATOM	6295	C5*	A	A	303	148.216	89.016	-6.734	1.00	61.16	A16S
ATOM	6296	C4*	A	A	303	147.902	88.614	-5.311	1.00	61.16	A16S
ATOM	6297	O4*	A	A	303	147.274	89.724	-4.624	1.00	61.16	A16S
ATOM	6298	C1*	A	A	303	146.379	89.233	-3.639	1.00	61.16	A16S
ATOM	6299	N9	A	A	303	145.014	89.596	-4.022	1.00	58.03	A16S
ATOM	6300	C4	A	A	303	143.903	89.547	-3.210	1.00	58.03	A16S
ATOM	6301	N3	A	A	303	143.855	89.237	-1.903	1.00	58.03	A16S
ATOM	6302	C2	A	A	303	142.598	89.232	-1.466	1.00	58.03	A16S
ATOM	6303	N1	A	A	303	141.471	89.481	-2.134	1.00	58.03	A16S
ATOM	6304	C6	A	A	303	141.556	89.797	-3.445	1.00	58.03	A16S
ATOM	6305	N6	A	A	303	140.435	90.041	-4.121	1.00	58.03	A16S
ATOM	6306	C5	A	A	303	142.830	89.843	-4.026	1.00	58.03	A16S
ATOM	6307	N7	A	A	303	143.257	90.128	-5.316	1.00	58.03	A16S



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ATOM	6308	C8	A	A	303	144.558	89.983	-5.258	1.00	58.03	A16S
ATOM	6309	C2*	A	A	303	146.502	87.712	-3.645	1.00	61.16	A16S
ATOM	6310	O2*	A	A	303	147.504	87.340	-2.719	1.00	61.16	A16S
ATOM	6311	C3*	A	A	303	146.946	87.453	-5.074	1.00	61.16	A16S
ATOM	6312	O3*	A	A	303	147.575	86.189	-5.160	1.00	61.16	A16S
ATOM	6313	P	U	A	304	146.745	84.925	-5.704	1.00	54.65	A16S
ATOM	6314	O1P	U	A	304	147.751	83.854	-5.882	1.00	60.90	A16S
ATOM	6315	O2P	U	A	304	145.896	85.347	-6.848	1.00	60.90	A16S
ATOM	6316	O5*	U	A	304	145.792	84.493	-4.509	1.00	54.65	A16S
ATOM	6317	C5*	U	A	304	146.344	84.096	-3.253	1.00	54.65	A16S
ATOM	6318	C4*	U	A	304	145.278	84.112	-2.193	1.00	54.65	A16S
ATOM	6319	O4*	U	A	304	144.675	85.425	-2.166	1.00	54.65	A16S
ATOM	6320	C1*	U	A	304	143.301	85.313	-1.843	1.00	54.65	A16S
ATOM	6321	N1	U	A	304	142.491	85.945	-2.905	1.00	60.90	A16S
ATOM	6322	C6	U	A	304	143.037	86.327	-4.108	1.00	60.90	A16S
ATOM	6323	C2	U	A	304	141.141	86.149	-2.652	1.00	60.90	A16S
ATOM	6324	O2	U	A	304	140.607	85.834	-1.611	1.00	60.90	A16S
ATOM	6325	N3	U	A	304	140.436	86.733	-3.669	1.00	60.90	A16S
ATOM	6326	C4	U	A	304	140.913	87.120	-4.892	1.00	60.90	A16S
ATOM	6327	O4	U	A	304	140.129	87.587	-5.724	1.00	60.90	A16S
ATOM	6328	C5	U	A	304	142.313	86.889	-5.082	1.00	60.90	A16S
ATOM	6329	C2*	U	A	304	143.007	83.835	-1.592	1.00	54.65	A16S
ATOM	6330	O2*	U	A	304	143.175	83.594	-0.209	1.00	54.65	A16S
ATOM	6331	C3*	U	A	304	144.108	83.163	-2.397	1.00	54.65	A16S
ATOM	6332	O3*	U	A	304	144.415	81.872	-1.885	1.00	54.65	A16S
ATOM	6333	P	G	A	305	143.729	80.567	-2.526	1.00	58.54	A16S
ATOM	6334	O1P	G	A	305	144.501	79.416	-1.999	1.00	66.36	A16S
ATOM	6335	O2P	G	A	305	143.545	80.724	-4.002	1.00	66.36	A16S
ATOM	6336	O5*	G	A	305	142.304	80.531	-1.831	1.00	58.54	A16S
ATOM	6337	C5*	G	A	305	142.193	80.492	-0.405	1.00	58.54	A16S
ATOM	6338	C4*	G	A	305	140.749	80.565	-0.016	1.00	58.54	A16S
ATOM	6339	O4*	G	A	305	140.210	81.796	-0.561	1.00	58.54	A16S
ATOM	6340	C1*	G	A	305	139.096	81.511	-1.376	1.00	58.54	A16S
ATOM	6341	N9	G	A	305	139.083	82.437	-2.504	1.00	66.36	A16S
ATOM	6342	C4	G	A	305	138.042	83.254	-2.871	1.00	66.36	A16S
ATOM	6343	N3	G	A	305	136.875	83.394	-2.211	1.00	66.36	A16S
ATOM	6344	C2	G	A	305	136.061	84.217	-2.834	1.00	66.36	A16S
ATOM	6345	N2	G	A	305	134.863	84.492	-2.311	1.00	66.36	A16S
ATOM	6346	N1	G	A	305	136.363	84.837	-4.015	1.00	66.36	A16S
ATOM	6347	C6	G	A	305	137.560	84.704	-4.708	1.00	66.36	A16S
ATOM	6348	O6	G	A	305	137.730	85.300	-5.777	1.00	66.36	A16S
ATOM	6349	C5	G	A	305	138.444	83.851	-4.047	1.00	66.36	A16S
ATOM	6350	N7	G	A	305	139.733	83.465	-4.384	1.00	66.36	A16S
ATOM	6351	C8	G	A	305	140.078	82.636	-3.436	1.00	66.36	A16S
ATOM	6352	C2*	G	A	305	139.256	80.058	-1.807	1.00	58.54	A16S
ATOM	6353	O2*	G	A	305	138.001	79.512	-2.138	1.00	58.54	A16S
ATOM	6354	C3*	G	A	305	139.884	79.439	-0.566	1.00	58.54	A16S
ATOM	6355	O3*	G	A	305	138.845	79.167	0.358	1.00	58.54	A16S
ATOM	6356	P	G	A	306	138.750	77.727	1.049	1.00	77.85	A16S
ATOM	6357	O1P	G	A	306	139.466	76.776	0.151	1.00	110.49	A16S
ATOM	6358	O2P	G	A	306	137.326	77.463	1.417	1.00	110.49	A16S
ATOM	6359	O5*	G	A	306	139.587	77.932	2.388	1.00	77.85	A16S
ATOM	6360	C5*	G	A	306	140.668	77.059	2.707	1.00	77.85	A16S
ATOM	6361	C4*	G	A	306	140.912	77.054	4.189	1.00	77.85	A16S
ATOM	6362	O4*	G	A	306	141.526	78.300	4.587	1.00	77.85	A16S
ATOM	6363	C1*	G	A	306	141.118	78.627	5.899	1.00	77.85	A16S
ATOM	6364	N9	G	A	306	140.527	79.959	5.882	1.00	110.49	A16S
ATOM	6365	C4	G	A	306	140.177	80.695	6.984	1.00	110.49	A16S
ATOM	6366	N3	G	A	306	140.308	80.301	8.270	1.00	110.49	A16S
ATOM	6367	C2	G	A	306	139.875	81.222	9.114	1.00	110.49	A16S
ATOM	6368	N2	G	A	306	139.907	80.985	10.432	1.00	110.49	A16S
ATOM	6369	N1	G	A	306	139.370	82.445	8.728	1.00	110.49	A16S
ATOM	6370	C6	G	A	306	139.235	82.878	7.408	1.00	110.49	A16S
ATOM	6371	O6	G	A	306	138.785	84.013	7.170	1.00	110.49	A16S
ATOM	6372	C5	G	A	306	139.677	81.884	6.488	1.00	110.49	A16S
ATOM	6373	N7	G	A	306	139.703	81.889	5.099	1.00	110.49	A16S
ATOM	6374	C8	G	A	306	140.214	80.729	4.784	1.00	110.49	A16S
ATOM	6375	C2*	G	A	306	140.162	77.534	6.387	1.00	77.85	A16S
ATOM	6376	O2*	G	A	306	140.883	76.625	7.194	1.00	77.85	A16S
ATOM	6377	C3*	G	A	306	139.684	76.925	5.072	1.00	77.85	A16S
ATOM	6378	O3*	G	A	306	139.263	75.565	5.200	1.00	77.85	A16S
ATOM	6379	P	C	A	307	137.683	75.215	5.241	1.00	88.08	A16S
ATOM	6380	O1P	C	A	307	137.008	75.797	4.035	1.00	89.67	A16S
ATOM	6381	O2P	C	A	307	137.578	73.745	5.498	1.00	89.67	A16S
ATOM	6382	O5*	C	A	307	137.170	75.996	6.543	1.00	88.08	A16S
ATOM	6383	C5*	C	A	307	137.707	75.657	7.848	1.00	88.08	A16S
ATOM	6384	C4*	C	A	307	137.229	76.609	8.928	1.00	88.08	A16S



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ATOM	6385	O4*	C	A	307	137.862	77.905	8.814	1.00	88.08	A16S
ATOM	6386	C1*	C	A	307	136.997	78.894	9.337	1.00	88.08	A16S
ATOM	6387	N1	C	A	307	136.708	79.869	8.283	1.00	89.67	A16S
ATOM	6388	C6	C	A	307	136.993	79.599	6.974	1.00	89.67	A16S
ATOM	6389	C2	C	A	307	136.129	81.083	8.640	1.00	89.67	A16S
ATOM	6390	O2	C	A	307	135.886	81.303	9.838	1.00	89.67	A16S
ATOM	6391	N3	C	A	307	135.846	81.987	7.679	1.00	89.67	A16S
ATOM	6392	C4	C	A	307	136.128	81.715	6.404	1.00	89.67	A16S
ATOM	6393	N4	C	A	307	135.833	82.638	5.487	1.00	89.67	A16S
ATOM	6394	C5	C	A	307	136.725	80.486	6.012	1.00	89.67	A16S
ATOM	6395	C2*	C	A	307	135.725	78.202	9.823	1.00	88.08	A16S
ATOM	6396	O2*	C	A	307	135.830	77.987	11.215	1.00	88.08	A16S
ATOM	6397	C3*	C	A	307	135.748	76.911	9.016	1.00	88.08	A16S
ATOM	6398	O3*	C	A	307	135.049	75.872	9.671	1.00	88.08	A16S
ATOM	6399	P	C	A	308	133.712	75.295	9.006	1.00	66.93	A16S
ATOM	6400	O1P	C	A	308	133.140	74.261	9.905	1.00	66.39	A16S
ATOM	6401	O2P	C	A	308	134.039	74.936	7.605	1.00	66.39	A16S
ATOM	6402	O5*	C	A	308	132.746	76.564	8.965	1.00	66.93	A16S
ATOM	6403	C5*	C	A	308	131.941	76.925	10.106	1.00	66.93	A16S
ATOM	6404	C4*	C	A	308	130.908	77.947	9.714	1.00	66.93	A16S
ATOM	6405	O4*	C	A	308	131.579	79.184	9.389	1.00	66.93	A16S
ATOM	6406	C1*	C	A	308	130.935	79.800	8.287	1.00	66.93	A16S
ATOM	6407	N1	C	A	308	131.882	79.867	7.165	1.00	66.39	A16S
ATOM	6408	C6	C	A	308	132.975	79.048	7.124	1.00	66.39	A16S
ATOM	6409	C2	C	A	308	131.638	80.767	6.127	1.00	66.39	A16S
ATOM	6410	O2	C	A	308	130.644	81.502	6.187	1.00	66.39	A16S
ATOM	6411	N3	C	A	308	132.484	80.807	5.079	1.00	66.39	A16S
ATOM	6412	C4	C	A	308	133.532	79.985	5.038	1.00	66.39	A16S
ATOM	6413	N4	C	A	308	134.324	80.036	3.971	1.00	66.39	A16S
ATOM	6414	C5	C	A	308	133.812	79.070	6.086	1.00	66.39	A16S
ATOM	6415	C2*	C	A	308	129.718	78.954	7.924	1.00	66.93	A16S
ATOM	6416	O2*	C	A	308	128.585	79.486	8.568	1.00	66.93	A16S
ATOM	6417	C3*	C	A	308	130.117	77.595	8.469	1.00	66.93	A16S
ATOM	6418	O3*	C	A	308	128.989	76.808	8.773	1.00	66.93	A16S
ATOM	6419	P	G	A	309	128.325	75.903	7.623	1.00	53.68	A16S
ATOM	6420	O1P	G	A	309	127.225	75.163	8.304	1.00	60.34	A16S
ATOM	6421	O2P	G	A	309	129.379	75.149	6.884	1.00	60.34	A16S
ATOM	6422	O5*	G	A	309	127.688	76.944	6.602	1.00	53.68	A16S
ATOM	6423	C5*	G	A	309	126.427	77.558	6.877	1.00	53.68	A16S
ATOM	6424	C4*	G	A	309	125.945	78.282	5.660	1.00	53.68	A16S
ATOM	6425	O4*	G	A	309	126.837	79.386	5.394	1.00	53.68	A16S
ATOM	6426	C1*	G	A	309	127.026	79.525	3.999	1.00	53.68	A16S
ATOM	6427	N9	G	A	309	128.432	79.269	3.723	1.00	60.34	A16S
ATOM	6428	C4	G	A	309	129.133	79.635	2.600	1.00	60.34	A16S
ATOM	6429	N3	G	A	309	128.650	80.335	1.557	1.00	60.34	A16S
ATOM	6430	C2	G	A	309	129.576	80.559	0.650	1.00	60.34	A16S
ATOM	6431	N2	G	A	309	129.277	81.282	-0.434	1.00	60.34	A16S
ATOM	6432	N1	G	A	309	130.866	80.101	0.744	1.00	60.34	A16S
ATOM	6433	C6	G	A	309	131.374	79.361	1.804	1.00	60.34	A16S
ATOM	6434	O6	G	A	309	132.543	78.978	1.789	1.00	60.34	A16S
ATOM	6435	C5	G	A	309	130.406	79.145	2.791	1.00	60.34	A16S
ATOM	6436	N7	G	A	309	130.506	78.496	4.011	1.00	60.34	A16S
ATOM	6437	C8	G	A	309	129.315	78.597	4.530	1.00	60.34	A16S
ATOM	6438	C2*	G	A	309	126.136	78.495	3.306	1.00	53.68	A16S
ATOM	6439	O2*	G	A	309	124.919	79.100	2.947	1.00	53.68	A16S
ATOM	6440	C3*	G	A	309	125.978	77.449	4.397	1.00	53.68	A16S
ATOM	6441	O3*	G	A	309	124.809	76.664	4.249	1.00	53.68	A16S
ATOM	6442	P	G	A	310	124.836	75.405	3.256	1.00	55.47	A16S
ATOM	6443	O1P	G	A	310	123.527	74.693	3.328	1.00	67.77	A16S
ATOM	6444	O2P	G	A	310	126.094	74.663	3.534	1.00	67.77	A16S
ATOM	6445	O5*	G	A	310	124.950	76.082	1.826	1.00	55.47	A16S
ATOM	6446	C5*	G	A	310	123.858	76.825	1.319	1.00	55.47	A16S
ATOM	6447	C4*	G	A	310	124.145	77.274	-0.078	1.00	55.47	A16S
ATOM	6448	O4*	G	A	310	125.223	78.236	-0.061	1.00	55.47	A16S
ATOM	6449	C1*	G	A	310	125.949	78.148	-1.278	1.00	55.47	A16S
ATOM	6450	N9	G	A	310	127.347	77.859	-0.964	1.00	67.77	A16S
ATOM	6451	C4	G	A	310	128.378	77.760	-1.872	1.00	67.77	A16S
ATOM	6452	N3	G	A	310	128.278	77.934	-3.208	1.00	67.77	A16S
ATOM	6453	C2	G	A	310	129.435	77.758	-3.817	1.00	67.77	A16S
ATOM	6454	N2	G	A	310	129.510	77.890	-5.151	1.00	67.77	A16S
ATOM	6455	N1	G	A	310	130.598	77.436	-3.163	1.00	67.77	A16S
ATOM	6456	C6	G	A	310	130.717	77.244	-1.790	1.00	67.77	A16S
ATOM	6457	O6	G	A	310	131.803	76.925	-1.305	1.00	67.77	A16S
ATOM	6458	C5	G	A	310	129.488	77.441	-1.127	1.00	67.77	A16S
ATOM	6459	N7	G	A	310	129.172	77.362	0.222	1.00	67.77	A16S
ATOM	6460	C8	G	A	310	127.894	77.618	0.273	1.00	67.77	A16S
ATOM	6461	C2*	G	A	310	125.317	77.034	-2.117	1.00	55.47	A16S



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ATOM	6462	O2*	G	A	310	124.390	77.558	-3.051	1.00	55.47	A16S
ATOM	6463	C3*	G	A	310	124.630	76.212	-1.044	1.00	55.47	A16S
ATOM	6464	O3*	G	A	310	123.605	75.406	-1.572	1.00	55.47	A16S
ATOM	6465	P	C	A	311	123.870	73.835	-1.724	1.00	53.18	A16S
ATOM	6466	O1P	C	A	311	122.539	73.159	-1.865	1.00	48.28	A16S
ATOM	6467	O2P	C	A	311	124.793	73.438	-0.623	1.00	48.28	A16S
ATOM	6468	O5*	C	A	311	124.686	73.717	-3.084	1.00	53.18	A16S
ATOM	6469	C5*	C	A	311	124.118	74.209	-4.292	1.00	53.18	A16S
ATOM	6470	C4*	C	A	311	125.160	74.324	-5.367	1.00	53.18	A16S
ATOM	6471	O4*	C	A	311	126.156	75.313	-5.013	1.00	53.18	A16S
ATOM	6472	C1*	C	A	311	127.393	74.956	-5.594	1.00	53.18	A16S
ATOM	6473	N1	C	A	311	128.370	74.719	-4.530	1.00	48.28	A16S
ATOM	6474	C6	C	A	311	128.001	74.672	-3.218	1.00	48.28	A16S
ATOM	6475	C2	C	A	311	129.698	74.534	-4.892	1.00	48.28	A16S
ATOM	6476	O2	C	A	311	129.996	74.586	-6.087	1.00	48.28	A16S
ATOM	6477	N3	C	A	311	130.624	74.308	-3.941	1.00	48.28	A16S
ATOM	6478	C4	C	A	311	130.262	74.280	-2.663	1.00	48.28	A16S
ATOM	6479	N4	C	A	311	131.216	74.092	-1.751	1.00	48.28	A16S
ATOM	6480	C5	C	A	311	128.906	74.457	-2.260	1.00	48.28	A16S
ATOM	6481	C2*	C	A	311	127.174	73.676	-6.388	1.00	53.18	A16S
ATOM	6482	O2*	C	A	311	126.865	74.028	-7.722	1.00	53.18	A16S
ATOM	6483	C3*	C	A	311	125.977	73.088	-5.668	1.00	53.18	A16S
ATOM	6484	O3*	C	A	311	125.280	72.173	-6.477	1.00	53.18	A16S
ATOM	6485	P	C	A	312	125.583	70.612	-6.316	1.00	51.37	A16S
ATOM	6486	O1P	C	A	312	124.513	69.876	-7.046	1.00	47.99	A16S
ATOM	6487	O2P	C	A	312	125.796	70.355	-4.866	1.00	47.99	A16S
ATOM	6488	O5*	C	A	312	126.973	70.423	-7.071	1.00	51.37	A16S
ATOM	6489	C5*	C	A	312	127.105	70.745	-8.473	1.00	51.37	A16S
ATOM	6490	C4*	C	A	312	128.562	70.712	-8.887	1.00	51.37	A16S
ATOM	6491	O4*	C	A	312	129.318	71.699	-8.138	1.00	51.37	A16S
ATOM	6492	C1*	C	A	312	130.596	71.185	-7.827	1.00	51.37	A16S
ATOM	6493	N1	C	A	312	130.694	71.059	-6.368	1.00	47.99	A16S
ATOM	6494	C6	C	A	312	129.614	71.307	-5.566	1.00	47.99	A16S
ATOM	6495	C2	C	A	312	131.917	70.680	-5.806	1.00	47.99	A16S
ATOM	6496	O2	C	A	312	132.876	70.461	-6.553	1.00	47.99	A16S
ATOM	6497	N3	C	A	312	132.023	70.560	-4.464	1.00	47.99	A16S
ATOM	6498	C4	C	A	312	130.965	70.802	-3.693	1.00	47.99	A16S
ATOM	6499	N4	C	A	312	131.111	70.660	-2.379	1.00	47.99	A16S
ATOM	6500	C5	C	A	312	129.705	71.197	-4.239	1.00	47.99	A16S
ATOM	6501	C2*	C	A	312	130.735	69.841	-8.533	1.00	51.37	A16S
ATOM	6502	O2*	C	A	312	131.301	70.109	-9.796	1.00	51.37	A16S
ATOM	6503	C3*	C	A	312	129.285	69.402	-8.640	1.00	51.37	A16S
ATOM	6504	O3*	C	A	312	129.079	68.548	-9.742	1.00	51.37	A16S
ATOM	6505	P	A	A	313	129.027	66.968	-9.516	1.00	46.86	A16S
ATOM	6506	O1P	A	A	313	128.635	66.313	-10.799	1.00	43.55	A16S
ATOM	6507	O2P	A	A	313	128.218	66.744	-8.300	1.00	43.55	A16S
ATOM	6508	O5*	A	A	313	130.540	66.591	-9.217	1.00	46.86	A16S
ATOM	6509	C5*	A	A	313	131.515	66.689	-10.253	1.00	46.86	A16S
ATOM	6510	C4*	A	A	313	132.882	66.442	-9.694	1.00	46.86	A16S
ATOM	6511	O4*	A	A	313	133.250	67.488	-8.766	1.00	46.86	A16S
ATOM	6512	C1*	A	A	313	133.965	66.935	-7.678	1.00	46.86	A16S
ATOM	6513	N9	A	A	313	133.127	67.080	-6.501	1.00	43.55	A16S
ATOM	6514	C4	A	A	313	133.534	67.023	-5.193	1.00	43.55	A16S
ATOM	6515	N3	A	A	313	134.780	66.823	-4.736	1.00	43.55	A16S
ATOM	6516	C2	A	A	313	134.800	66.854	-3.412	1.00	43.55	A16S
ATOM	6517	N1	A	A	313	133.790	67.040	-2.558	1.00	43.55	A16S
ATOM	6518	C6	A	A	313	132.551	67.219	-3.051	1.00	43.55	A16S
ATOM	6519	N6	A	A	313	131.541	67.376	-2.199	1.00	43.55	A16S
ATOM	6520	C5	A	A	313	132.396	67.219	-4.438	1.00	43.55	A16S
ATOM	6521	N7	A	A	313	131.282	67.386	-5.257	1.00	43.55	A16S
ATOM	6522	C8	A	A	313	131.768	67.295	-6.468	1.00	43.55	A16S
ATOM	6523	C2*	A	A	313	134.165	65.459	-7.977	1.00	46.86	A16S
ATOM	6524	O2*	A	A	313	135.397	65.313	-8.641	1.00	46.86	A16S
ATOM	6525	C3*	A	A	313	132.977	65.183	-8.878	1.00	46.86	A16S
ATOM	6526	O3*	A	A	313	133.153	64.092	-9.725	1.00	46.86	A16S
ATOM	6527	P	C	A	314	132.514	62.698	-9.316	1.00	48.48	A16S
ATOM	6528	O1P	C	A	314	132.466	61.854	-10.547	1.00	49.28	A16S
ATOM	6529	O2P	C	A	314	131.252	62.998	-8.577	1.00	49.28	A16S
ATOM	6530	O5*	C	A	314	133.586	62.120	-8.290	1.00	48.48	A16S
ATOM	6531	C5*	C	A	314	134.957	62.023	-8.657	1.00	48.48	A16S
ATOM	6532	C4*	C	A	314	135.818	61.926	-7.429	1.00	48.48	A16S
ATOM	6533	O4*	C	A	314	135.689	63.137	-6.652	1.00	48.48	A16S
ATOM	6534	C1*	C	A	314	135.853	62.843	-5.279	1.00	48.48	A16S
ATOM	6535	N1	C	A	314	134.631	63.250	-4.564	1.00	49.28	A16S
ATOM	6536	C6	C	A	314	133.486	63.548	-5.247	1.00	49.28	A16S
ATOM	6537	C2	C	A	314	134.655	63.319	-3.159	1.00	49.28	A16S
ATOM	6538	O2	C	A	314	135.706	63.048	-2.560	1.00	49.28	A16S



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ATOM	6539	N3	C	A	314	133.533	63.681	-2.496	1.00	49.28	A16S
ATOM	6540	C4	C	A	314	132.423	63.975	-3.179	1.00	49.28	A16S
ATOM	6541	N4	C	A	314	131.344	64.344	-2.492	1.00	49.28	A16S
ATOM	6542	C5	C	A	314	132.372	63.910	-4.602	1.00	49.28	A16S
ATOM	6543	C2*	C	A	314	136.130	61.344	-5.154	1.00	48.48	A16S
ATOM	6544	O2*	C	A	314	137.529	61.130	-5.080	1.00	48.48	A16S
ATOM	6545	C3*	C	A	314	135.519	60.808	-6.444	1.00	48.48	A16S
ATOM	6546	O3*	C	A	314	136.123	59.573	-6.826	1.00	48.48	A16S
ATOM	6547	P	A	A	315	135.448	58.189	-6.371	1.00	64.48	A16S
ATOM	6548	O1P	A	A	315	136.177	57.101	-7.108	1.00	58.34	A16S
ATOM	6549	O2P	A	A	315	133.965	58.303	-6.491	1.00	58.34	A16S
ATOM	6550	O5*	A	A	315	135.796	58.084	-4.824	1.00	64.48	A16S
ATOM	6551	C5*	A	A	315	137.159	58.100	-4.383	1.00	64.48	A16S
ATOM	6552	C4*	A	A	315	137.225	57.828	-2.904	1.00	64.48	A16S
ATOM	6553	O4*	A	A	315	136.425	58.828	-2.225	1.00	64.48	A16S
ATOM	6554	C1*	A	A	315	135.447	58.198	-1.434	1.00	64.48	A16S
ATOM	6555	N9	A	A	315	134.261	59.051	-1.416	1.00	58.34	A16S
ATOM	6556	C4	A	A	315	133.859	59.808	-0.341	1.00	58.34	A16S
ATOM	6557	N3	A	A	315	134.447	59.887	0.866	1.00	58.34	A16S
ATOM	6558	C2	A	A	315	133.788	60.733	1.653	1.00	58.34	A16S
ATOM	6559	N1	A	A	315	132.690	61.456	1.391	1.00	58.34	A16S
ATOM	6560	C6	A	A	315	132.126	61.351	0.166	1.00	58.34	A16S
ATOM	6561	N6	A	A	315	131.037	62.070	-0.102	1.00	58.34	A16S
ATOM	6562	C5	A	A	315	132.727	60.484	-0.759	1.00	58.34	A16S
ATOM	6563	N7	A	A	315	132.406	60.146	-2.067	1.00	58.34	A16S
ATOM	6564	C8	A	A	315	133.344	59.293	-2.410	1.00	58.34	A16S
ATOM	6565	C2*	A	A	315	135.264	56.802	-2.025	1.00	64.48	A16S
ATOM	6566	O2*	A	A	315	134.756	55.904	-1.062	1.00	64.48	A16S
ATOM	6567	C3*	A	A	315	136.690	56.472	-2.455	1.00	64.48	A16S
ATOM	6568	O3*	A	A	315	137.450	56.039	-1.311	1.00	64.48	A16S
ATOM	6569	P	G	A	316	137.863	54.488	-1.139	1.00	61.26	A16S
ATOM	6570	O1P	G	A	316	137.008	53.692	-2.055	1.00	58.14	A16S
ATOM	6571	O2P	G	A	316	137.876	54.179	0.322	1.00	58.14	A16S
ATOM	6572	O5*	G	A	316	139.360	54.421	-1.670	1.00	61.26	A16S
ATOM	6573	C5*	G	A	316	140.345	55.332	-1.185	1.00	61.26	A16S
ATOM	6574	C4*	G	A	316	141.640	55.119	-1.918	1.00	61.26	A16S
ATOM	6575	O4*	G	A	316	142.144	53.806	-1.584	1.00	61.26	A16S
ATOM	6576	C1*	G	A	316	142.786	53.237	-2.711	1.00	61.26	A16S
ATOM	6577	N9	G	A	316	142.090	52.005	-3.067	1.00	58.14	A16S
ATOM	6578	C4	G	A	316	142.439	51.162	-4.082	1.00	58.14	A16S
ATOM	6579	N3	G	A	316	143.500	51.317	-4.899	1.00	58.14	A16S
ATOM	6580	C2	G	A	316	143.574	50.354	-5.796	1.00	58.14	A16S
ATOM	6581	N2	G	A	316	144.588	50.348	-6.679	1.00	58.14	A16S
ATOM	6582	N1	G	A	316	142.664	49.324	-5.888	1.00	58.14	A16S
ATOM	6583	C6	G	A	316	141.565	49.146	-5.049	1.00	58.14	A16S
ATOM	6584	O6	G	A	316	140.813	48.177	-5.208	1.00	58.14	A16S
ATOM	6585	C5	G	A	316	141.484	50.169	-4.081	1.00	58.14	A16S
ATOM	6586	N7	G	A	316	140.562	50.372	-3.064	1.00	58.14	A16S
ATOM	6587	C8	G	A	316	140.964	51.470	-2.486	1.00	58.14	A16S
ATOM	6588	C2*	G	A	316	142.746	54.264	-3.844	1.00	61.26	A16S
ATOM	6589	O2*	G	A	316	143.974	54.962	-3.878	1.00	61.26	A16S
ATOM	6590	C3*	G	A	316	141.552	55.120	-3.436	1.00	61.26	A16S
ATOM	6591	O3*	G	A	316	141.608	56.436	-3.974	1.00	61.26	A16S
ATOM	6592	P	G	A	317	140.756	56.788	-5.291	1.00	53.47	A16S
ATOM	6593	O1P	G	A	317	140.809	58.267	-5.470	1.00	64.59	A16S
ATOM	6594	O2P	G	A	317	139.435	56.093	-5.202	1.00	64.59	A16S
ATOM	6595	O5*	G	A	317	141.568	56.093	-6.469	1.00	53.47	A16S
ATOM	6596	C5*	G	A	317	142.850	56.589	-6.889	1.00	53.47	A16S
ATOM	6597	C4*	G	A	317	143.306	55.846	-8.120	1.00	53.47	A16S
ATOM	6598	O4*	G	A	317	143.719	54.499	-7.768	1.00	53.47	A16S
ATOM	6599	C1*	G	A	317	143.309	53.590	-8.787	1.00	53.47	A16S
ATOM	6600	N9	G	A	317	142.313	52.681	-8.226	1.00	64.59	A16S
ATOM	6601	C4	G	A	317	141.839	51.530	-8.804	1.00	64.59	A16S
ATOM	6602	N3	G	A	317	142.245	51.012	-9.975	1.00	64.59	A16S
ATOM	6603	C2	G	A	317	141.617	49.889	-10.255	1.00	64.59	A16S
ATOM	6604	N2	G	A	317	141.934	49.218	-11.358	1.00	64.59	A16S
ATOM	6605	N1	G	A	317	140.640	49.337	-9.468	1.00	64.59	A16S
ATOM	6606	C6	G	A	317	140.188	49.872	-8.267	1.00	64.59	A16S
ATOM	6607	O6	G	A	317	139.264	49.321	-7.647	1.00	64.59	A16S
ATOM	6608	C5	G	A	317	140.885	51.049	-7.934	1.00	64.59	A16S
ATOM	6609	N7	G	A	317	140.778	51.864	-6.821	1.00	64.59	A16S
ATOM	6610	C8	G	A	317	141.642	52.818	-7.035	1.00	64.59	A16S
ATOM	6611	C2*	G	A	317	142.687	54.412	-9.914	1.00	53.47	A16S
ATOM	6612	O2*	G	A	317	143.670	54.700	-10.883	1.00	53.47	A16S
ATOM	6613	C3*	G	A	317	142.213	55.642	-9.155	1.00	53.47	A16S
ATOM	6614	O3*	G	A	317	142.014	56.772	-9.973	1.00	53.47	A16S
ATOM	6615	P	G	A	318	140.551	57.057	-10.560	1.00	64.43	A16S



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ATOM	6616	O1P	G	A	318	140.631	58.303	-11.380	1.00	68.08	A16S
ATOM	6617	O2P	G	A	318	139.565	56.972	-9.440	1.00	68.08	A16S
ATOM	6618	O5*	G	A	318	140.316	55.825	-11.539	1.00	64.43	A16S
ATOM	6619	C5*	G	A	318	141.198	55.625	-12.648	1.00	64.43	A16S
ATOM	6620	C4*	G	A	318	140.743	54.471	-13.491	1.00	64.43	A16S
ATOM	6621	O4*	G	A	318	141.020	53.222	-12.822	1.00	64.43	A16S
ATOM	6622	C1*	G	A	318	140.082	52.256	-13.250	1.00	64.43	A16S
ATOM	6623	N9	G	A	318	139.370	51.736	-12.094	1.00	68.08	A16S
ATOM	6624	C4	G	A	318	138.640	50.582	-12.077	1.00	68.08	A16S
ATOM	6625	N3	G	A	318	138.525	49.715	-13.099	1.00	68.08	A16S
ATOM	6626	C2	G	A	318	137.722	48.718	-12.809	1.00	68.08	A16S
ATOM	6627	N2	G	A	318	137.512	47.764	-13.724	1.00	68.08	A16S
ATOM	6628	N1	G	A	318	137.070	48.582	-11.605	1.00	68.08	A16S
ATOM	6629	C6	G	A	318	137.176	49.467	-10.537	1.00	68.08	A16S
ATOM	6630	O6	G	A	318	136.541	49.263	-9.498	1.00	68.08	A16S
ATOM	6631	C5	G	A	318	138.049	50.540	-10.838	1.00	68.08	A16S
ATOM	6632	N7	G	A	318	138.442	51.627	-10.070	1.00	68.08	A16S
ATOM	6633	C8	G	A	318	139.237	52.303	-10.853	1.00	68.08	A16S
ATOM	6634	C2*	G	A	318	139.095	52.939	-14.200	1.00	64.43	A16S
ATOM	6635	O2*	G	A	318	139.451	52.703	-15.548	1.00	64.43	A16S
ATOM	6636	C3*	G	A	318	139.266	54.398	-13.823	1.00	64.43	A16S
ATOM	6637	O3*	G	A	318	138.923	55.218	-14.912	1.00	64.43	A16S
ATOM	6638	P	G	A	319	137.429	55.781	-15.024	1.00	64.08	A16S
ATOM	6639	O1P	G	A	319	137.409	56.700	-16.198	1.00	70.33	A16S
ATOM	6640	O2P	G	A	319	137.063	56.290	-13.679	1.00	70.33	A16S
ATOM	6641	O5*	G	A	319	136.539	54.513	-15.407	1.00	64.08	A16S
ATOM	6642	C5*	G	A	319	136.505	54.075	-16.772	1.00	64.08	A16S
ATOM	6643	C4*	G	A	319	135.911	52.695	-16.901	1.00	64.08	A16S
ATOM	6644	O4*	G	A	319	136.531	51.771	-15.965	1.00	64.08	A16S
ATOM	6645	C1*	G	A	319	135.603	50.744	-15.630	1.00	64.08	A16S
ATOM	6646	N9	G	A	319	135.306	50.817	-14.199	1.00	70.33	A16S
ATOM	6647	C4	G	A	319	134.549	49.918	-13.481	1.00	70.33	A16S
ATOM	6648	N3	G	A	319	133.986	48.792	-13.965	1.00	70.33	A16S
ATOM	6649	C2	G	A	319	133.310	48.143	-13.033	1.00	70.33	A16S
ATOM	6650	N2	G	A	319	132.716	46.988	-13.330	1.00	70.33	A16S
ATOM	6651	N1	G	A	319	133.178	48.575	-11.736	1.00	70.33	A16S
ATOM	6652	C6	G	A	319	133.743	49.734	-11.218	1.00	70.33	A16S
ATOM	6653	O6	G	A	319	133.560	50.036	-10.038	1.00	70.33	A16S
ATOM	6654	C5	G	A	319	134.486	50.432	-12.199	1.00	70.33	A16S
ATOM	6655	N7	G	A	319	135.204	51.618	-12.106	1.00	70.33	A16S
ATOM	6656	C8	G	A	319	135.678	51.805	-13.310	1.00	70.33	A16S
ATOM	6657	C2*	G	A	319	134.329	51.029	-16.422	1.00	64.08	A16S
ATOM	6658	O2*	G	A	319	134.366	50.345	-17.660	1.00	64.08	A16S
ATOM	6659	C3*	G	A	319	134.433	52.529	-16.629	1.00	64.08	A16S
ATOM	6660	O3*	G	A	319	133.629	52.934	-17.708	1.00	64.08	A16S
ATOM	6661	P	C	A	320	132.151	53.484	-17.412	1.00	59.51	A16S
ATOM	6662	O1P	C	A	320	131.558	53.922	-18.710	1.00	62.19	A16S
ATOM	6663	O2P	C	A	320	132.213	54.437	-16.266	1.00	62.19	A16S
ATOM	6664	O5*	C	A	320	131.367	52.186	-16.925	1.00	59.51	A16S
ATOM	6665	C5*	C	A	320	131.340	50.999	-17.745	1.00	59.51	A16S
ATOM	6666	C4*	C	A	320	130.491	49.917	-17.112	1.00	59.51	A16S
ATOM	6667	O4*	C	A	320	131.126	49.382	-15.929	1.00	59.51	A16S
ATOM	6668	C1*	C	A	320	130.134	48.947	-15.025	1.00	59.51	A16S
ATOM	6669	N1	C	A	320	130.296	49.674	-13.769	1.00	62.19	A16S
ATOM	6670	C6	C	A	320	130.901	50.894	-13.736	1.00	62.19	A16S
ATOM	6671	C2	C	A	320	129.808	49.098	-12.601	1.00	62.19	A16S
ATOM	6672	O2	C	A	320	129.255	47.995	-12.665	1.00	62.19	A16S
ATOM	6673	N3	C	A	320	129.943	49.759	-11.433	1.00	62.19	A16S
ATOM	6674	C4	C	A	320	130.530	50.955	-11.412	1.00	62.19	A16S
ATOM	6675	N4	C	A	320	130.630	51.586	-10.241	1.00	62.19	A16S
ATOM	6676	C5	C	A	320	131.036	51.564	-12.591	1.00	62.19	A16S
ATOM	6677	C2*	C	A	320	128.772	49.230	-15.647	1.00	59.51	A16S
ATOM	6678	O2*	C	A	320	128.313	48.071	-16.303	1.00	59.51	A16S
ATOM	6679	C3*	C	A	320	129.108	50.317	-16.645	1.00	59.51	A16S
ATOM	6680	O3*	C	A	320	128.183	50.306	-17.703	1.00	59.51	A16S
ATOM	6681	P	A	A	321	126.990	51.363	-17.697	1.00	60.29	A16S
ATOM	6682	O1P	A	A	321	126.477	51.474	-19.093	1.00	60.35	A16S
ATOM	6683	O2P	A	A	321	127.488	52.570	-16.989	1.00	60.35	A16S
ATOM	6684	O5*	A	A	321	125.874	50.699	-16.781	1.00	60.29	A16S
ATOM	6685	C5*	A	A	321	125.090	49.607	-17.266	1.00	60.29	A16S
ATOM	6686	C4*	A	A	321	124.695	48.704	-16.127	1.00	60.29	A16S
ATOM	6687	O4*	A	A	321	125.793	48.669	-15.186	1.00	60.29	A16S
ATOM	6688	C1*	A	A	321	125.295	48.431	-13.888	1.00	60.29	A16S
ATOM	6689	N9	A	A	321	125.742	49.503	-12.998	1.00	60.35	A16S
ATOM	6690	C4	A	A	321	125.758	49.429	-11.626	1.00	60.35	A16S
ATOM	6691	N3	A	A	321	125.347	48.405	-10.860	1.00	60.35	A16S
ATOM	6692	C2	A	A	321	125.530	48.678	-9.576	1.00	60.35	A16S



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ATOM	6693	N1	A	A 321	126.036	49.774	-9.010	1.00	60.35	A16S
ATOM	6694	C6	A	A 321	126.430	50.787	-9.806	1.00	60.35	A16S
ATOM	6695	N6	A	A 321	126.916	51.881	-9.238	1.00	60.35	A16S
ATOM	6696	C5	A	A 321	126.294	50.623	-11.190	1.00	60.35	A16S
ATOM	6697	N7	A	A 321	126.594	51.447	-12.264	1.00	60.35	A16S
ATOM	6698	C8	A	A 321	126.241	50.740	-13.312	1.00	60.35	A16S
ATOM	6699	C2*	A	A 321	123.780	48.298	-13.990	1.00	60.29	A16S
ATOM	6700	O2*	A	A 321	123.483	46.922	-14.160	1.00	60.29	A16S
ATOM	6701	C3*	A	A 321	123.492	49.072	-15.267	1.00	60.29	A16S
ATOM	6702	O3*	A	A 321	122.280	48.608	-15.845	1.00	60.29	A16S
ATOM	6703	P	C	A 322	120.873	48.907	-15.117	1.00	55.39	A16S
ATOM	6704	O1P	C	A 322	119.813	48.300	-15.975	1.00	67.04	A16S
ATOM	6705	O2P	C	A 322	120.794	50.347	-14.771	1.00	67.04	A16S
ATOM	6706	O5*	C	A 322	120.939	48.067	-13.761	1.00	55.39	A16S
ATOM	6707	C5*	C	A 322	120.837	46.625	-13.786	1.00	55.39	A16S
ATOM	6708	C4*	C	A 322	120.632	46.083	-12.392	1.00	55.39	A16S
ATOM	6709	O4*	C	A 322	121.790	46.363	-11.578	1.00	55.39	A16S
ATOM	6710	C1*	C	A 322	121.382	46.627	-10.248	1.00	55.39	A16S
ATOM	6711	N1	C	A 322	121.851	47.971	-9.891	1.00	67.04	A16S
ATOM	6712	C6	C	A 322	122.030	48.921	-10.856	1.00	67.04	A16S
ATOM	6713	C2	C	A 322	122.121	48.271	-8.535	1.00	67.04	A16S
ATOM	6714	O2	C	A 322	121.948	47.390	-7.661	1.00	67.04	A16S
ATOM	6715	N3	C	A 322	122.561	49.505	-8.217	1.00	67.04	A16S
ATOM	6716	C4	C	A 322	122.734	50.417	-9.173	1.00	67.04	A16S
ATOM	6717	N4	C	A 322	123.167	51.617	-8.812	1.00	67.04	A16S
ATOM	6718	C5	C	A 322	122.468	50.139	-10.546	1.00	67.04	A16S
ATOM	6719	C2*	C	A 322	119.864	46.471	-10.175	1.00	55.39	A16S
ATOM	6720	O2*	C	A 322	119.570	45.173	-9.710	1.00	55.39	A16S
ATOM	6721	C3*	C	A 322	119.468	46.678	-11.629	1.00	55.39	A16S
ATOM	6722	O3*	C	A 322	118.285	45.989	-11.965	1.00	55.39	A16S
ATOM	6723	P	U	A 323	116.896	46.782	-11.985	1.00	46.07	A16S
ATOM	6724	O1P	U	A 323	115.857	45.826	-12.475	1.00	64.06	A16S
ATOM	6725	O2P	U	A 323	117.117	48.068	-12.707	1.00	64.06	A16S
ATOM	6726	O5*	U	A 323	116.646	47.108	-10.444	1.00	46.07	A16S
ATOM	6727	C5*	U	A 323	116.603	46.048	-9.479	1.00	46.07	A16S
ATOM	6728	C4*	U	A 323	116.563	46.606	-8.084	1.00	46.07	A16S
ATOM	6729	O4*	U	A 323	117.852	47.144	-7.708	1.00	46.07	A16S
ATOM	6730	C1*	U	A 323	117.669	48.293	-6.892	1.00	46.07	A16S
ATOM	6731	N1	U	A 323	118.333	49.437	-7.548	1.00	64.06	A16S
ATOM	6732	C6	U	A 323	118.476	49.502	-8.919	1.00	64.06	A16S
ATOM	6733	C2	U	A 323	118.816	50.455	-6.744	1.00	64.06	A16S
ATOM	6734	O2	U	A 323	118.709	50.447	-5.531	1.00	64.06	A16S
ATOM	6735	N3	U	A 323	119.432	51.486	-7.413	1.00	64.06	A16S
ATOM	6736	C4	U	A 323	119.613	51.605	-8.768	1.00	64.06	A16S
ATOM	6737	O4	U	A 323	120.236	52.564	-9.210	1.00	64.06	A16S
ATOM	6738	C5	U	A 323	119.082	50.524	-9.537	1.00	64.06	A16S
ATOM	6739	C2*	U	A 323	116.160	48.485	-6.699	1.00	46.07	A16S
ATOM	6740	O2*	U	A 323	115.743	47.876	-5.504	1.00	46.07	A16S
ATOM	6741	C3*	U	A 323	115.608	47.760	-7.911	1.00	46.07	A16S
ATOM	6742	O3*	U	A 323	114.307	47.293	-7.735	1.00	46.07	A16S
ATOM	6743	P	G	A 324	113.096	48.154	-8.309	1.00	44.10	A16S
ATOM	6744	O1P	G	A 324	111.954	47.239	-8.639	1.00	71.13	A16S
ATOM	6745	O2P	G	A 324	113.635	49.067	-9.355	1.00	71.13	A16S
ATOM	6746	O5*	G	A 324	112.714	49.017	-7.036	1.00	44.10	A16S
ATOM	6747	C5*	G	A 324	112.203	50.338	-7.171	1.00	44.10	A16S
ATOM	6748	C4*	G	A 324	112.855	51.236	-6.158	1.00	44.10	A16S
ATOM	6749	O4*	G	A 324	114.299	51.105	-6.247	1.00	44.10	A16S
ATOM	6750	C1*	G	A 324	114.886	52.391	-6.371	1.00	44.10	A16S
ATOM	6751	N9	G	A 324	115.259	52.563	-7.774	1.00	71.13	A16S
ATOM	6752	C4	G	A 324	116.240	53.378	-8.269	1.00	71.13	A16S
ATOM	6753	N3	G	A 324	117.046	54.175	-7.540	1.00	71.13	A16S
ATOM	6754	C2	G	A 324	117.875	54.859	-8.299	1.00	71.13	A16S
ATOM	6755	N2	G	A 324	118.719	55.733	-7.732	1.00	71.13	A16S
ATOM	6756	N1	G	A 324	117.924	54.745	-9.673	1.00	71.13	A16S
ATOM	6757	C6	G	A 324	117.099	53.921	-10.444	1.00	71.13	A16S
ATOM	6758	O6	G	A 324	117.211	53.894	-11.683	1.00	71.13	A16S
ATOM	6759	C5	G	A 324	116.202	53.204	-9.641	1.00	71.13	A16S
ATOM	6760	N7	G	A 324	115.221	52.292	-9.998	1.00	71.13	A16S
ATOM	6761	C8	G	A 324	114.688	51.938	-8.864	1.00	71.13	A16S
ATOM	6762	C2*	G	A 324	113.823	53.395	-5.920	1.00	44.10	A16S
ATOM	6763	O2*	G	A 324	113.919	53.518	-4.518	1.00	44.10	A16S
ATOM	6764	C3*	G	A 324	112.546	52.700	-6.391	1.00	44.10	A16S
ATOM	6765	O3*	G	A 324	111.356	53.031	-5.698	1.00	44.10	A16S
ATOM	6766	P	A	A 325	110.090	53.587	-6.514	1.00	53.77	A16S
ATOM	6767	O1P	A	A 325	109.873	52.731	-7.711	1.00	59.84	A16S
ATOM	6768	O2P	A	A 325	108.984	53.766	-5.535	1.00	59.84	A16S
ATOM	6769	O5*	A	A 325	110.575	55.028	-7.002	1.00	53.77	A16S



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ATOM	6770	C5*	A	A 325	109.694	55.936	-7.705	1.00	53.77	A16S
ATOM	6771	C4*	A	A 325	110.248	57.342	-7.641	1.00	53.77	A16S
ATOM	6772	O4*	A	A 325	110.011	57.922	-6.332	1.00	53.77	A16S
ATOM	6773	C1*	A	A 325	111.075	58.798	-6.000	1.00	53.77	A16S
ATOM	6774	N9	A	A 325	111.540	58.502	-4.640	1.00	59.84	A16S
ATOM	6775	C4	A	A 325	112.241	59.361	-3.831	1.00	59.84	A16S
ATOM	6776	N3	A	A 325	112.658	60.594	-4.132	1.00	59.84	A16S
ATOM	6777	C2	A	A 325	113.278	61.144	-3.094	1.00	59.84	A16S
ATOM	6778	N1	A	A 325	113.514	60.641	-1.881	1.00	59.84	A16S
ATOM	6779	C6	A	A 325	113.092	59.396	-1.613	1.00	59.84	A16S
ATOM	6780	N6	A	A 325	113.345	58.896	-0.405	1.00	59.84	A16S
ATOM	6781	C5	A	A 325	112.415	58.702	-2.632	1.00	59.84	A16S
ATOM	6782	N7	A	A 325	111.861	57.434	-2.688	1.00	59.84	A16S
ATOM	6783	C8	A	A 325	111.360	57.363	-3.899	1.00	59.84	A16S
ATOM	6784	C2*	A	A 325	112.127	58.722	-7.113	1.00	53.77	A16S
ATOM	6785	O2*	A	A 325	112.017	59.816	-8.003	1.00	53.77	A16S
ATOM	6786	C3*	A	A 325	111.753	57.426	-7.811	1.00	53.77	A16S
ATOM	6787	O3*	A	A 325	112.134	57.441	-9.165	1.00	53.77	A16S
ATOM	6788	P	G	A 326	113.502	56.720	-9.592	1.00	50.33	A16S
ATOM	6789	O1P	G	A 326	113.575	56.786	-11.080	1.00	54.95	A16S
ATOM	6790	O2P	G	A 326	113.555	55.387	-8.918	1.00	54.95	A16S
ATOM	6791	O5*	G	A 326	114.632	57.642	-8.939	1.00	50.33	A16S
ATOM	6792	C5*	G	A 326	114.861	58.986	-9.405	1.00	50.33	A16S
ATOM	6793	C4*	G	A 326	115.699	59.746	-8.408	1.00	50.33	A16S
ATOM	6794	O4*	G	A 326	115.007	59.752	-7.143	1.00	50.33	A16S
ATOM	6795	C1*	G	A 326	115.935	59.656	-6.089	1.00	50.33	A16S
ATOM	6796	N9	G	A 326	115.534	58.528	-5.257	1.00	54.95	A16S
ATOM	6797	C4	G	A 326	115.798	58.360	-3.924	1.00	54.95	A16S
ATOM	6798	N3	G	A 326	116.485	59.209	-3.141	1.00	54.95	A16S
ATOM	6799	C2	G	A 326	116.575	58.767	-1.899	1.00	54.95	A16S
ATOM	6800	N2	G	A 326	117.213	59.488	-0.979	1.00	54.95	A16S
ATOM	6801	N1	G	A 326	116.041	57.588	-1.462	1.00	54.95	A16S
ATOM	6802	C6	G	A 326	115.323	56.703	-2.245	1.00	54.95	A16S
ATOM	6803	O6	G	A 326	114.868	55.674	-1.739	1.00	54.95	A16S
ATOM	6804	C5	G	A 326	115.216	57.161	-3.584	1.00	54.95	A16S
ATOM	6805	N7	G	A 326	114.596	56.586	-4.684	1.00	54.95	A16S
ATOM	6806	C8	G	A 326	114.810	57.431	-5.652	1.00	54.95	A16S
ATOM	6807	C2*	G	A 326	117.346	59.590	-6.691	1.00	50.33	A16S
ATOM	6808	O2*	G	A 326	117.961	60.862	-6.633	1.00	50.33	A16S
ATOM	6809	C3*	G	A 326	117.070	59.156	-8.127	1.00	50.33	A16S
ATOM	6810	O3*	G	A 326	117.996	59.774	-9.020	1.00	50.33	A16S
ATOM	6811	P	A	A 327	119.094	58.893	-9.798	1.00	71.96	A16S
ATOM	6812	O1P	A	A 327	119.816	59.856	-10.656	1.00	60.43	A16S
ATOM	6813	O2P	A	A 327	118.451	57.708	-10.425	1.00	60.43	A16S
ATOM	6814	O5*	A	A 327	120.065	58.389	-8.640	1.00	71.96	A16S
ATOM	6815	C5*	A	A 327	120.792	59.330	-7.836	1.00	71.96	A16S
ATOM	6816	C4*	A	A 327	122.118	58.742	-7.416	1.00	71.96	A16S
ATOM	6817	O4*	A	A 327	121.902	57.734	-6.396	1.00	71.96	A16S
ATOM	6818	C1*	A	A 327	122.511	56.524	-6.791	1.00	71.96	A16S
ATOM	6819	N9	A	A 327	121.750	55.417	-6.200	1.00	60.43	A16S
ATOM	6820	C4	A	A 327	121.703	55.143	-4.854	1.00	60.43	A16S
ATOM	6821	N3	A	A 327	122.313	55.814	-3.865	1.00	60.43	A16S
ATOM	6822	C2	A	A 327	122.055	55.250	-2.683	1.00	60.43	A16S
ATOM	6823	N1	A	A 327	121.312	54.177	-2.398	1.00	60.43	A16S
ATOM	6824	C6	A	A 327	120.710	53.530	-3.416	1.00	60.43	A16S
ATOM	6825	N6	A	A 327	119.973	52.464	-3.137	1.00	60.43	A16S
ATOM	6826	C5	A	A 327	120.903	54.027	-4.722	1.00	60.43	A16S
ATOM	6827	N7	A	A 327	120.440	53.606	-5.962	1.00	60.43	A16S
ATOM	6828	C8	A	A 327	120.970	54.459	-6.802	1.00	60.43	A16S
ATOM	6829	C2*	A	A 327	122.619	56.593	-8.317	1.00	71.96	A16S
ATOM	6830	O2*	A	A 327	123.639	55.752	-8.812	1.00	71.96	A16S
ATOM	6831	C3*	A	A 327	122.922	58.075	-8.527	1.00	71.96	A16S
ATOM	6832	O3*	A	A 327	124.315	58.303	-8.296	1.00	71.96	A16S
ATOM	6833	P	C	A 328	125.044	59.570	-8.967	1.00	51.98	A16S
ATOM	6834	O1P	C	A 328	125.068	60.680	-7.992	1.00	52.11	A16S
ATOM	6835	O2P	C	A 328	124.463	59.783	-10.334	1.00	52.11	A16S
ATOM	6836	O5*	C	A 328	126.553	59.122	-9.116	1.00	51.98	A16S
ATOM	6837	C5*	C	A 328	126.959	58.439	-10.286	1.00	51.98	A16S
ATOM	6838	C4*	C	A 328	126.863	56.973	-10.053	1.00	51.98	A16S
ATOM	6839	O4*	C	A 328	125.712	56.390	-10.674	1.00	51.98	A16S
ATOM	6840	C1*	C	A 328	125.926	55.005	-10.679	1.00	51.98	A16S
ATOM	6841	N1	C	A 328	124.927	54.400	-11.576	1.00	52.11	A16S
ATOM	6842	C6	C	A 328	123.758	53.912	-11.072	1.00	52.11	A16S
ATOM	6843	C2	C	A 328	125.187	54.320	-12.945	1.00	52.11	A16S
ATOM	6844	O2	C	A 328	126.230	54.793	-13.382	1.00	52.11	A16S
ATOM	6845	N3	C	A 328	124.297	53.735	-13.757	1.00	52.11	A16S
ATOM	6846	C4	C	A 328	123.169	53.247	-13.260	1.00	52.11	A16S



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ATOM	6847	N4	C	A	328	122.326	52.665	-14.111	1.00	52.11	A16S
ATOM	6848	C5	C	A	328	122.856	53.333	-11.870	1.00	52.11	A16S
ATOM	6849	C2*	C	A	328	127.398	54.873	-11.100	1.00	51.98	A16S
ATOM	6850	O2*	C	A	328	128.066	53.660	-10.837	1.00	51.98	A16S
ATOM	6851	C3*	C	A	328	128.034	56.155	-10.555	1.00	51.98	A16S
ATOM	6852	O3*	C	A	328	129.080	56.130	-9.559	1.00	51.98	A16S
ATOM	6853	P	A	A	329	128.871	55.410	-8.124	1.00	63.68	A16S
ATOM	6854	O1P	A	A	329	129.998	55.943	-7.303	1.00	55.42	A16S
ATOM	6855	O2P	A	A	329	128.717	53.951	-8.284	1.00	55.42	A16S
ATOM	6856	O5*	A	A	329	127.508	55.984	-7.523	1.00	63.68	A16S
ATOM	6857	C5*	A	A	329	127.502	57.078	-6.562	1.00	63.68	A16S
ATOM	6858	C4*	A	A	329	126.928	56.615	-5.232	1.00	63.68	A16S
ATOM	6859	O4*	A	A	329	125.673	55.963	-5.481	1.00	63.68	A16S
ATOM	6860	C1*	A	A	329	125.419	55.072	-4.430	1.00	63.68	A16S
ATOM	6861	N9	A	A	329	124.725	53.901	-4.934	1.00	55.42	A16S
ATOM	6862	C4	A	A	329	124.173	52.947	-4.131	1.00	55.42	A16S
ATOM	6863	N3	A	A	329	124.213	52.904	-2.791	1.00	55.42	A16S
ATOM	6864	C2	A	A	329	123.544	51.854	-2.350	1.00	55.42	A16S
ATOM	6865	N1	A	A	329	122.890	50.910	-3.048	1.00	55.42	A16S
ATOM	6866	C6	A	A	329	122.882	50.991	-4.394	1.00	55.42	A16S
ATOM	6867	N6	A	A	329	122.236	50.056	-5.092	1.00	55.42	A16S
ATOM	6868	C5	A	A	329	123.554	52.058	-4.978	1.00	55.42	A16S
ATOM	6869	N7	A	A	329	123.741	52.428	-6.295	1.00	55.42	A16S
ATOM	6870	C8	A	A	329	124.449	53.523	-6.214	1.00	55.42	A16S
ATOM	6871	C2*	A	A	329	126.719	54.762	-3.699	1.00	63.68	A16S
ATOM	6872	O2*	A	A	329	126.559	55.125	-2.345	1.00	63.68	A16S
ATOM	6873	C3*	A	A	329	127.753	55.568	-4.488	1.00	63.68	A16S
ATOM	6874	O3*	A	A	329	128.683	56.119	-3.535	1.00	63.68	A16S
ATOM	6875	P	C	A	330	128.608	57.682	-3.099	1.00	66.68	A16S
ATOM	6876	O1P	C	A	330	127.243	57.973	-2.593	1.00	76.95	A16S
ATOM	6877	O2P	C	A	330	129.203	58.548	-4.160	1.00	76.95	A16S
ATOM	6878	O5*	C	A	330	129.553	57.751	-1.828	1.00	66.68	A16S
ATOM	6879	C5*	C	A	330	129.454	56.753	-0.827	1.00	66.68	A16S
ATOM	6880	C4*	C	A	330	130.808	56.200	-0.527	1.00	66.68	A16S
ATOM	6881	O4*	C	A	330	131.664	57.288	-0.101	1.00	66.68	A16S
ATOM	6882	C1*	C	A	330	132.289	56.961	1.123	1.00	66.68	A16S
ATOM	6883	N1	C	A	330	131.594	57.727	2.178	1.00	76.95	A16S
ATOM	6884	C6	C	A	330	130.520	58.509	1.860	1.00	76.95	A16S
ATOM	6885	C2	C	A	330	132.025	57.626	3.519	1.00	76.95	A16S
ATOM	6886	O2	C	A	330	133.043	56.941	3.798	1.00	76.95	A16S
ATOM	6887	N3	C	A	330	131.324	58.280	4.475	1.00	76.95	A16S
ATOM	6888	C4	C	A	330	130.258	59.014	4.143	1.00	76.95	A16S
ATOM	6889	N4	C	A	330	129.583	59.618	5.119	1.00	76.95	A16S
ATOM	6890	C5	C	A	330	129.832	59.159	2.798	1.00	76.95	A16S
ATOM	6891	C2*	C	A	330	132.117	55.448	1.299	1.00	66.68	A16S
ATOM	6892	O2*	C	A	330	133.160	54.738	0.663	1.00	66.68	A16S
ATOM	6893	C3*	C	A	330	130.772	55.228	0.630	1.00	66.68	A16S
ATOM	6894	O3*	C	A	330	130.524	53.900	0.187	1.00	66.68	A16S
ATOM	6895	P	G	A	331	129.331	53.062	0.860	1.00	56.42	A16S
ATOM	6896	O1P	G	A	331	129.367	51.676	0.320	1.00	71.81	A16S
ATOM	6897	O2P	G	A	331	128.072	53.852	0.777	1.00	71.81	A16S
ATOM	6898	O5*	G	A	331	129.770	52.980	2.378	1.00	56.42	A16S
ATOM	6899	C5*	G	A	331	130.984	52.329	2.727	1.00	56.42	A16S
ATOM	6900	C4*	G	A	331	130.927	51.875	4.155	1.00	56.42	A16S
ATOM	6901	O4*	G	A	331	131.277	52.956	5.072	1.00	56.42	A16S
ATOM	6902	C1*	G	A	331	130.460	52.877	6.226	1.00	56.42	A16S
ATOM	6903	N9	G	A	331	129.577	54.038	6.215	1.00	71.81	A16S
ATOM	6904	C4	G	A	331	128.913	54.581	7.284	1.00	71.81	A16S
ATOM	6905	N3	G	A	331	128.987	54.160	8.567	1.00	71.81	A16S
ATOM	6906	C2	G	A	331	128.206	54.872	9.365	1.00	71.81	A16S
ATOM	6907	N2	G	A	331	128.161	54.602	10.677	1.00	71.81	A16S
ATOM	6908	N1	G	A	331	127.415	55.907	8.934	1.00	71.81	A16S
ATOM	6909	C6	G	A	331	127.328	56.356	7.616	1.00	71.81	A16S
ATOM	6910	O6	G	A	331	126.584	57.300	7.326	1.00	71.81	A16S
ATOM	6911	C5	G	A	331	128.158	55.608	6.758	1.00	71.81	A16S
ATOM	6912	N7	G	A	331	128.361	55.723	5.392	1.00	71.81	A16S
ATOM	6913	C8	G	A	331	129.214	54.779	5.117	1.00	71.81	A16S
ATOM	6914	C2*	G	A	331	129.649	51.578	6.109	1.00	56.42	A16S
ATOM	6915	O2*	G	A	331	130.380	50.530	6.716	1.00	56.42	A16S
ATOM	6916	C3*	G	A	331	129.558	51.406	4.596	1.00	56.42	A16S
ATOM	6917	O3*	G	A	331	129.305	50.086	4.149	1.00	56.42	A16S
ATOM	6918	P	G	A	332	127.815	49.488	4.238	1.00	46.92	A16S
ATOM	6919	O1P	G	A	332	126.837	50.602	4.166	1.00	66.54	A16S
ATOM	6920	O2P	G	A	332	127.778	48.555	5.395	1.00	66.54	A16S
ATOM	6921	O5*	G	A	332	127.682	48.622	2.914	1.00	46.92	A16S
ATOM	6922	C5*	G	A	332	127.515	49.253	1.648	1.00	46.92	A16S
ATOM	6923	C4*	G	A	332	126.776	48.333	0.726	1.00	46.92	A16S



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ATOM	6924	O4*	G	A	332	125.802	49.102	-0.005	1.00	46.92	A16S
ATOM	6925	C1*	G	A	332	125.645	48.564	-1.303	1.00	46.92	A16S
ATOM	6926	N9	G	A	332	126.054	49.566	-2.289	1.00	66.54	A16S
ATOM	6927	C4	G	A	332	125.828	49.485	-3.638	1.00	66.54	A16S
ATOM	6928	N3	G	A	332	125.150	48.502	-4.260	1.00	66.54	A16S
ATOM	6929	C2	G	A	332	125.125	48.673	-5.562	1.00	66.54	A16S
ATOM	6930	N2	G	A	332	124.467	47.796	-6.321	1.00	66.54	A16S
ATOM	6931	N1	G	A	332	125.736	49.720	-6.212	1.00	66.54	A16S
ATOM	6932	C6	G	A	332	126.441	50.746	-5.594	1.00	66.54	A16S
ATOM	6933	O6	G	A	332	126.957	51.635	-6.273	1.00	66.54	A16S
ATOM	6934	C5	G	A	332	126.457	50.586	-4.185	1.00	66.54	A16S
ATOM	6935	N7	G	A	332	127.029	51.373	-3.193	1.00	66.54	A16S
ATOM	6936	C8	G	A	332	126.764	50.733	-2.084	1.00	66.54	A16S
ATOM	6937	C2*	G	A	332	126.528	47.323	-1.383	1.00	46.92	A16S
ATOM	6938	O2*	G	A	332	125.776	46.204	-0.991	1.00	46.92	A16S
ATOM	6939	C3*	G	A	332	127.584	47.624	-0.341	1.00	46.92	A16S
ATOM	6940	O3*	G	A	332	128.170	46.416	0.103	1.00	46.92	A16S
ATOM	6941	P	G	A	333	129.374	45.756	-0.753	1.00	48.25	A16S
ATOM	6942	O1P	G	A	333	129.798	44.506	-0.049	1.00	61.92	A16S
ATOM	6943	O2P	G	A	333	130.390	46.804	-1.043	1.00	61.92	A16S
ATOM	6944	O5*	G	A	333	128.694	45.352	-2.140	1.00	48.25	A16S
ATOM	6945	C5*	G	A	333	127.719	44.315	-2.195	1.00	48.25	A16S
ATOM	6946	C4*	G	A	333	127.372	44.002	-3.624	1.00	48.25	A16S
ATOM	6947	O4*	G	A	333	126.708	45.135	-4.222	1.00	48.25	A16S
ATOM	6948	C1*	G	A	333	127.092	45.252	-5.579	1.00	48.25	A16S
ATOM	6949	N9	G	A	333	127.804	46.517	-5.717	1.00	61.92	A16S
ATOM	6950	C4	G	A	333	128.188	47.134	-6.880	1.00	61.92	A16S
ATOM	6951	N3	G	A	333	128.001	46.665	-8.128	1.00	61.92	A16S
ATOM	6952	C2	G	A	333	128.502	47.485	-9.037	1.00	61.92	A16S
ATOM	6953	N2	G	A	333	128.447	47.160	-10.330	1.00	61.92	A16S
ATOM	6954	N1	G	A	333	129.104	48.683	-8.741	1.00	61.92	A16S
ATOM	6955	C6	G	A	333	129.290	49.188	-7.457	1.00	61.92	A16S
ATOM	6956	O6	G	A	333	129.828	50.287	-7.289	1.00	61.92	A16S
ATOM	6957	C5	G	A	333	128.796	48.310	-6.483	1.00	61.92	A16S
ATOM	6958	N7	G	A	333	128.809	48.419	-5.103	1.00	61.92	A16S
ATOM	6959	C8	G	A	333	128.214	47.335	-4.691	1.00	61.92	A16S
ATOM	6960	C2*	G	A	333	127.967	44.047	-5.915	1.00	48.25	A16S
ATOM	6961	O2*	G	A	333	127.135	43.038	-6.453	1.00	48.25	A16S
ATOM	6962	C3*	G	A	333	128.538	43.698	-4.546	1.00	48.25	A16S
ATOM	6963	O3*	G	A	333	128.931	42.335	-4.436	1.00	48.25	A16S
ATOM	6964	P	C	A	334	130.439	41.914	-4.787	1.00	58.91	A16S
ATOM	6965	O1P	C	A	334	130.579	40.460	-4.529	1.00	72.36	A16S
ATOM	6966	O2P	C	A	334	131.388	42.854	-4.139	1.00	72.36	A16S
ATOM	6967	O5*	C	A	334	130.463	42.134	-6.358	1.00	58.91	A16S
ATOM	6968	C5*	C	A	334	129.585	41.377	-7.192	1.00	58.91	A16S
ATOM	6969	C4*	C	A	334	130.004	41.508	-8.623	1.00	58.91	A16S
ATOM	6970	O4*	C	A	334	129.550	42.780	-9.148	1.00	58.91	A16S
ATOM	6971	C1*	C	A	334	130.506	43.283	-10.066	1.00	58.91	A16S
ATOM	6972	N1	C	A	334	130.996	44.582	-9.561	1.00	72.36	A16S
ATOM	6973	C6	C	A	334	131.130	44.805	-8.219	1.00	72.36	A16S
ATOM	6974	C2	C	A	334	131.325	45.591	-10.479	1.00	72.36	A16S
ATOM	6975	O2	C	A	334	131.200	45.372	-11.688	1.00	72.36	A16S
ATOM	6976	N3	C	A	334	131.768	46.776	-10.024	1.00	72.36	A16S
ATOM	6977	C4	C	A	334	131.887	46.983	-8.716	1.00	72.36	A16S
ATOM	6978	N4	C	A	334	132.318	48.173	-8.317	1.00	72.36	A16S
ATOM	6979	C5	C	A	334	131.566	45.980	-7.759	1.00	72.36	A16S
ATOM	6980	C2*	C	A	334	131.621	42.237	-10.193	1.00	58.91	A16S
ATOM	6981	O2*	C	A	334	131.375	41.375	-11.296	1.00	58.91	A16S
ATOM	6982	C3*	C	A	334	131.505	41.512	-8.860	1.00	58.91	A16S
ATOM	6983	O3*	C	A	334	132.088	40.217	-8.876	1.00	58.91	A16S
ATOM	6984	P	C	A	335	133.659	40.058	-8.563	1.00	64.08	A16S
ATOM	6985	O1P	C	A	335	133.951	38.602	-8.531	1.00	67.72	A16S
ATOM	6986	O2P	C	A	335	134.005	40.898	-7.381	1.00	67.72	A16S
ATOM	6987	O5*	C	A	335	134.343	40.663	-9.870	1.00	64.08	A16S
ATOM	6988	C5*	C	A	335	134.080	40.065	-11.156	1.00	64.08	A16S
ATOM	6989	C4*	C	A	335	134.774	40.828	-12.249	1.00	64.08	A16S
ATOM	6990	O4*	C	A	335	134.121	42.099	-12.452	1.00	64.08	A16S
ATOM	6991	C1*	C	A	335	135.091	43.083	-12.747	1.00	64.08	A16S
ATOM	6992	N1	C	A	335	135.059	44.072	-11.667	1.00	67.72	A16S
ATOM	6993	C6	C	A	335	134.523	43.760	-10.449	1.00	67.72	A16S
ATOM	6994	C2	C	A	335	135.597	45.336	-11.898	1.00	67.72	A16S
ATOM	6995	O2	C	A	335	136.063	45.591	-13.010	1.00	67.72	A16S
ATOM	6996	N3	C	A	335	135.597	46.243	-10.902	1.00	67.72	A16S
ATOM	6997	C4	C	A	335	135.085	45.924	-9.714	1.00	67.72	A16S
ATOM	6998	N4	C	A	335	135.122	46.839	-8.756	1.00	67.72	A16S
ATOM	6999	C5	C	A	335	134.516	44.646	-9.454	1.00	67.72	A16S
ATOM	7000	C2*	C	A	335	136.460	42.402	-12.817	1.00	64.08	A16S



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ATOM	7001	O2*	C	A	335	136.827	42.102	-14.152	1.00	64.08	A16S
ATOM	7002	C3*	C	A	335	136.224	41.166	-11.966	1.00	64.08	A16S
ATOM	7003	O3*	C	A	335	137.084	40.107	-12.322	1.00	64.08	A16S
ATOM	7004	P	C	A	336	138.573	40.092	-11.750	1.00	63.95	A16S
ATOM	7005	O1P	C	A	336	139.211	38.860	-12.265	1.00	92.37	A16S
ATOM	7006	O2P	C	A	336	138.530	40.342	-10.286	1.00	92.37	A16S
ATOM	7007	O5*	C	A	336	139.252	41.356	-12.435	1.00	63.95	A16S
ATOM	7008	C5*	C	A	336	139.740	41.292	-13.777	1.00	63.95	A16S
ATOM	7009	C4*	C	A	336	140.553	42.520	-14.085	1.00	63.95	A16S
ATOM	7010	O4*	C	A	336	139.694	43.683	-13.982	1.00	63.95	A16S
ATOM	7011	C1*	C	A	336	140.433	44.778	-13.465	1.00	63.95	A16S
ATOM	7012	N1	C	A	336	139.841	45.197	-12.171	1.00	92.37	A16S
ATOM	7013	C6	C	A	336	139.095	44.334	-11.414	1.00	92.37	A16S
ATOM	7014	C2	C	A	336	140.087	46.500	-11.712	1.00	92.37	A16S
ATOM	7015	O2	C	A	336	140.718	47.282	-12.439	1.00	92.37	A16S
ATOM	7016	N3	C	A	336	139.626	46.874	-10.494	1.00	92.37	A16S
ATOM	7017	C4	C	A	336	138.928	46.014	-9.754	1.00	92.37	A16S
ATOM	7018	N4	C	A	336	138.518	46.417	-8.552	1.00	92.37	A16S
ATOM	7019	C5	C	A	336	138.626	44.697	-10.211	1.00	92.37	A16S
ATOM	7020	C2*	C	A	336	141.879	44.314	-13.286	1.00	63.95	A16S
ATOM	7021	O2*	C	A	336	142.643	44.639	-14.429	1.00	63.95	A16S
ATOM	7022	C3*	C	A	336	141.696	42.814	-13.127	1.00	63.95	A16S
ATOM	7023	O3*	C	A	336	142.880	42.109	-13.449	1.00	63.95	A16S
ATOM	7024	P	C	A	337	143.997	41.872	-12.316	1.00	67.59	A16S
ATOM	7025	O1P	C	A	337	145.111	41.155	-12.972	1.00	76.21	A16S
ATOM	7026	O2P	C	A	337	143.352	41.269	-11.120	1.00	76.21	A16S
ATOM	7027	O5*	C	A	337	144.499	43.342	-11.958	1.00	67.59	A16S
ATOM	7028	C5*	C	A	337	145.232	44.121	-12.922	1.00	67.59	A16S
ATOM	7029	C4*	C	A	337	145.790	45.380	-12.289	1.00	67.59	A16S
ATOM	7030	O4*	C	A	337	144.731	46.353	-12.061	1.00	67.59	A16S
ATOM	7031	C1*	C	A	337	145.002	47.086	-10.871	1.00	67.59	A16S
ATOM	7032	N1	C	A	337	143.940	46.802	-9.877	1.00	76.21	A16S
ATOM	7033	C6	C	A	337	143.121	45.715	-10.012	1.00	76.21	A16S
ATOM	7034	C2	C	A	337	143.795	47.654	-8.773	1.00	76.21	A16S
ATOM	7035	O2	C	A	337	144.521	48.648	-8.682	1.00	76.21	A16S
ATOM	7036	N3	C	A	337	142.867	47.371	-7.836	1.00	76.21	A16S
ATOM	7037	C4	C	A	337	142.090	46.296	-7.970	1.00	76.21	A16S
ATOM	7038	N4	C	A	337	141.199	46.047	-7.012	1.00	76.21	A16S
ATOM	7039	C5	C	A	337	142.194	45.427	-9.090	1.00	76.21	A16S
ATOM	7040	C2*	C	A	337	146.363	46.621	-10.353	1.00	67.59	A16S
ATOM	7041	O2*	C	A	337	147.377	47.470	-10.853	1.00	67.59	A16S
ATOM	7042	C3*	C	A	337	146.440	45.214	-10.927	1.00	67.59	A16S
ATOM	7043	O3*	C	A	337	147.759	44.709	-10.973	1.00	67.59	A16S
ATOM	7044	P	A	A	338	148.307	43.857	-9.724	1.00	73.73	A16S
ATOM	7045	O1P	A	A	338	149.604	43.239	-10.116	1.00	68.93	A16S
ATOM	7046	O2P	A	A	338	147.201	42.997	-9.218	1.00	68.93	A16S
ATOM	7047	O5*	A	A	338	148.621	44.961	-8.625	1.00	73.73	A16S
ATOM	7048	C5*	A	A	338	149.572	45.990	-8.902	1.00	73.73	A16S
ATOM	7049	C4*	A	A	338	149.535	47.033	-7.824	1.00	73.73	A16S
ATOM	7050	O4*	A	A	338	148.236	47.671	-7.812	1.00	73.73	A16S
ATOM	7051	C1*	A	A	338	147.883	48.009	-6.483	1.00	73.73	A16S
ATOM	7052	N9	A	A	338	146.641	47.318	-6.150	1.00	68.93	A16S
ATOM	7053	C4	A	A	338	145.839	47.599	-5.077	1.00	68.93	A16S
ATOM	7054	N3	A	A	338	146.045	48.532	-4.135	1.00	68.93	A16S
ATOM	7055	C2	A	A	338	145.050	48.534	-3.259	1.00	68.93	A16S
ATOM	7056	N1	A	A	338	143.954	47.766	-3.220	1.00	68.93	A16S
ATOM	7057	C6	A	A	338	143.780	46.838	-4.184	1.00	68.93	A16S
ATOM	7058	N6	A	A	338	142.685	46.077	-4.148	1.00	68.93	A16S
ATOM	7059	C5	A	A	338	144.767	46.733	-5.171	1.00	68.93	A16S
ATOM	7060	N7	A	A	338	144.899	45.906	-6.276	1.00	68.93	A16S
ATOM	7061	C8	A	A	338	146.027	46.290	-6.819	1.00	68.93	A16S
ATOM	7062	C2*	A	A	338	149.041	47.601	-5.577	1.00	73.73	A16S
ATOM	7063	O2*	A	A	338	149.870	48.727	-5.368	1.00	73.73	A16S
ATOM	7064	C3*	A	A	338	149.702	46.514	-6.412	1.00	73.73	A16S
ATOM	7065	O3*	A	A	338	151.058	46.301	-6.094	1.00	73.73	A16S
ATOM	7066	P	C	A	339	151.464	44.988	-5.272	1.00	83.56	A16S
ATOM	7067	O1P	C	A	339	152.942	44.887	-5.348	1.00	83.81	A16S
ATOM	7068	O2P	C	A	339	150.616	43.854	-5.752	1.00	83.81	A16S
ATOM	7069	O5*	C	A	339	151.063	45.344	-3.771	1.00	83.56	A16S
ATOM	7070	C5*	C	A	339	151.687	46.453	-3.106	1.00	83.56	A16S
ATOM	7071	C4*	C	A	339	150.825	46.958	-1.975	1.00	83.56	A16S
ATOM	7072	O4*	C	A	339	149.543	47.414	-2.473	1.00	83.56	A16S
ATOM	7073	C1*	C	A	339	148.553	47.200	-1.486	1.00	83.56	A16S
ATOM	7074	N1	C	A	339	147.531	46.300	-2.025	1.00	83.81	A16S
ATOM	7075	C6	C	A	339	147.758	45.556	-3.148	1.00	83.81	A16S
ATOM	7076	C2	C	A	339	146.316	46.207	-1.353	1.00	83.81	A16S
ATOM	7077	O2	C	A	339	146.139	46.905	-0.338	1.00	83.81	A16S



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ATOM	7078	N3	C	A	339	145.367	45.365	-1.817	1.00	83.81	A16S
ATOM	7079	C4	C	A	339	145.601	44.639	-2.909	1.00	83.81	A16S
ATOM	7080	N4	C	A	339	144.637	43.824	-3.332	1.00	83.81	A16S
ATOM	7081	C5	C	A	339	146.831	44.720	-3.619	1.00	83.81	A16S
ATOM	7082	C2*	C	A	339	149.226	46.571	-0.268	1.00	83.56	A16S
ATOM	7083	O2*	C	A	339	149.516	47.574	0.685	1.00	83.56	A16S
ATOM	7084	C3*	C	A	339	150.469	45.957	-0.894	1.00	83.56	A16S
ATOM	7085	O3*	C	A	339	151.518	45.826	0.041	1.00	83.56	A16S
ATOM	7086	P	U	A	340	151.947	44.366	0.540	1.00	93.07	A16S
ATOM	7087	O1P	U	A	340	153.395	44.487	0.876	1.00	72.54	A16S
ATOM	7088	O2P	U	A	340	151.508	43.374	-0.481	1.00	72.54	A16S
ATOM	7089	O5*	U	A	340	151.079	44.143	1.862	1.00	93.07	A16S
ATOM	7090	C5*	U	A	340	151.069	45.135	2.906	1.00	93.07	A16S
ATOM	7091	C4*	U	A	340	149.779	45.078	3.697	1.00	93.07	A16S
ATOM	7092	O4*	U	A	340	148.650	45.469	2.874	1.00	93.07	A16S
ATOM	7093	C1*	U	A	340	147.491	44.760	3.287	1.00	93.07	A16S
ATOM	7094	N1	U	A	340	146.977	43.967	2.156	1.00	72.54	A16S
ATOM	7095	C6	U	A	340	147.719	43.784	1.004	1.00	72.54	A16S
ATOM	7096	C2	U	A	340	145.702	43.405	2.274	1.00	72.54	A16S
ATOM	7097	O2	U	A	340	145.006	43.508	3.280	1.00	72.54	A16S
ATOM	7098	N3	U	A	340	145.273	42.711	1.171	1.00	72.54	A16S
ATOM	7099	C4	U	A	340	145.959	42.503	-0.005	1.00	72.54	A16S
ATOM	7100	O4	U	A	340	145.423	41.859	-0.908	1.00	72.54	A16S
ATOM	7101	C5	U	A	340	147.267	43.089	-0.048	1.00	72.54	A16S
ATOM	7102	C2*	U	A	340	147.887	43.893	4.478	1.00	93.07	A16S
ATOM	7103	O2*	U	A	340	147.634	44.601	5.674	1.00	93.07	A16S
ATOM	7104	C3*	U	A	340	149.377	43.724	4.247	1.00	93.07	A16S
ATOM	7105	O3*	U	A	340	150.042	43.414	5.448	1.00	93.07	A16S
ATOM	7106	P	C	A	341	150.531	41.910	5.698	1.00	112.89	A16S
ATOM	7107	O1P	C	A	341	151.446	41.978	6.867	1.00	93.14	A16S
ATOM	7108	O2P	C	A	341	151.020	41.366	4.395	1.00	93.14	A16S
ATOM	7109	O5*	C	A	341	149.208	41.131	6.123	1.00	112.89	A16S
ATOM	7110	C5*	C	A	341	148.575	41.427	7.374	1.00	112.89	A16S
ATOM	7111	C4*	C	A	341	147.224	40.765	7.459	1.00	112.89	A16S
ATOM	7112	O4*	C	A	341	146.343	41.290	6.437	1.00	112.89	A16S
ATOM	7113	C1*	C	A	341	145.441	40.278	6.025	1.00	112.89	A16S
ATOM	7114	N1	C	A	341	145.610	40.044	4.586	1.00	93.14	A16S
ATOM	7115	C6	C	A	341	146.747	40.433	3.934	1.00	93.14	A16S
ATOM	7116	C2	C	A	341	144.579	39.406	3.889	1.00	93.14	A16S
ATOM	7117	O2	C	A	341	143.559	39.067	4.506	1.00	93.14	A16S
ATOM	7118	N3	C	A	341	144.718	39.175	2.567	1.00	93.14	A16S
ATOM	7119	C4	C	A	341	145.832	39.558	1.938	1.00	93.14	A16S
ATOM	7120	N4	C	A	341	145.929	39.312	0.628	1.00	93.14	A16S
ATOM	7121	C5	C	A	341	146.900	40.212	2.624	1.00	93.14	A16S
ATOM	7122	C2*	C	A	341	145.747	39.020	6.831	1.00	112.89	A16S
ATOM	7123	O2*	C	A	341	144.861	38.963	7.927	1.00	112.89	A16S
ATOM	7124	C3*	C	A	341	147.190	39.264	7.249	1.00	112.89	A16S
ATOM	7125	O3*	C	A	341	147.498	38.578	8.446	1.00	112.89	A16S
ATOM	7126	P	C	A	342	147.957	37.046	8.378	1.00	114.93	A16S
ATOM	7127	O1P	C	A	342	148.468	36.725	9.736	1.00	74.12	A16S
ATOM	7128	O2P	C	A	342	148.827	36.852	7.186	1.00	74.12	A16S
ATOM	7129	O5*	C	A	342	146.608	36.250	8.116	1.00	114.93	A16S
ATOM	7130	C5*	C	A	342	145.702	35.974	9.186	1.00	114.93	A16S
ATOM	7131	C4*	C	A	342	144.630	35.037	8.711	1.00	114.93	A16S
ATOM	7132	O4*	C	A	342	143.866	35.696	7.664	1.00	114.93	A16S
ATOM	7133	C1*	C	A	342	143.515	34.757	6.658	1.00	114.93	A16S
ATOM	7134	N1	C	A	342	144.231	35.098	5.410	1.00	74.12	A16S
ATOM	7135	C6	C	A	342	145.274	35.987	5.405	1.00	74.12	A16S
ATOM	7136	C2	C	A	342	143.832	34.478	4.219	1.00	74.12	A16S
ATOM	7137	O2	C	A	342	142.898	33.672	4.253	1.00	74.12	A16S
ATOM	7138	N3	C	A	342	144.477	34.765	3.068	1.00	74.12	A16S
ATOM	7139	C4	C	A	342	145.497	35.625	3.073	1.00	74.12	A16S
ATOM	7140	N4	C	A	342	146.115	35.863	1.913	1.00	74.12	A16S
ATOM	7141	C5	C	A	342	145.932	36.276	4.270	1.00	74.12	A16S
ATOM	7142	C2*	C	A	342	143.969	33.388	7.149	1.00	114.93	A16S
ATOM	7143	O2*	C	A	342	142.917	32.763	7.859	1.00	114.93	A16S
ATOM	7144	C3*	C	A	342	145.140	33.776	8.035	1.00	114.93	A16S
ATOM	7145	O3*	C	A	342	145.549	32.746	8.913	1.00	114.93	A16S
ATOM	7146	P	U	A	343	146.732	31.757	8.450	1.00	121.39	A16S
ATOM	7147	O1P	U	A	343	147.854	32.592	7.941	1.00	111.45	A16S
ATOM	7148	O2P	U	A	343	146.978	30.789	9.546	1.00	111.45	A16S
ATOM	7149	O5*	U	A	343	146.118	30.971	7.207	1.00	121.39	A16S
ATOM	7150	C5*	U	A	343	144.923	30.188	7.356	1.00	121.39	A16S
ATOM	7151	C4*	U	A	343	144.502	29.606	6.031	1.00	121.39	A16S
ATOM	7152	O4*	U	A	343	144.201	30.679	5.096	1.00	121.39	A16S
ATOM	7153	C1*	U	A	343	144.532	30.271	3.776	1.00	121.39	A16S
ATOM	7154	N1	U	A	343	145.552	31.182	3.222	1.00	111.45	A16S



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ATOM	7155	C6	U	A	343	146.331	31.980	4.037	1.00111.45	A16S
ATOM	7156	C2	U	A	343	145.723	31.202	1.842	1.00111.45	A16S
ATOM	7157	O2	U	A	343	145.049	30.531	1.078	1.00111.45	A16S
ATOM	7158	N3	U	A	343	146.714	32.040	1.390	1.00111.45	A16S
ATOM	7159	C4	U	A	343	147.532	32.854	2.153	1.00111.45	A16S
ATOM	7160	O4	U	A	343	148.374	33.564	1.595	1.00111.45	A16S
ATOM	7161	C5	U	A	343	147.287	32.790	3.562	1.00111.45	A16S
ATOM	7162	C2*	U	A	343	145.035	28.829	3.860	1.00121.39	A16S
ATOM	7163	O2*	U	A	343	143.950	27.954	3.616	1.00121.39	A16S
ATOM	7164	C3*	U	A	343	145.530	28.756	5.302	1.00121.39	A16S
ATOM	7165	O3*	U	A	343	145.588	27.415	5.787	1.00121.39	A16S
ATOM	7166	P	A	A	344	147.005	26.639	5.840	1.00113.78	A16S
ATOM	7167	O1P	A	A	344	147.961	27.285	4.901	1.00125.66	A16S
ATOM	7168	O2P	A	A	344	147.366	26.509	7.279	1.00125.66	A16S
ATOM	7169	O5*	A	A	344	146.655	25.190	5.275	1.00113.78	A16S
ATOM	7170	C5*	A	A	344	147.350	24.619	4.143	1.00113.78	A16S
ATOM	7171	C4*	A	A	344	146.442	23.639	3.447	1.00113.78	A16S
ATOM	7172	O4*	A	A	344	145.760	22.911	4.493	1.00113.78	A16S
ATOM	7173	C1*	A	A	344	144.374	22.849	4.231	1.00113.78	A16S
ATOM	7174	N9	A	A	344	143.703	23.512	5.342	1.00125.66	A16S
ATOM	7175	C4	A	A	344	142.933	22.894	6.294	1.00125.66	A16S
ATOM	7176	N3	A	A	344	142.622	21.590	6.368	1.00125.66	A16S
ATOM	7177	C2	A	A	344	141.863	21.347	7.433	1.00125.66	A16S
ATOM	7178	N1	A	A	344	141.410	22.196	8.365	1.00125.66	A16S
ATOM	7179	C6	A	A	344	141.739	23.502	8.262	1.00125.66	A16S
ATOM	7180	N6	A	A	344	141.278	24.351	9.191	1.00125.66	A16S
ATOM	7181	C5	A	A	344	142.549	23.888	7.172	1.00125.66	A16S
ATOM	7182	N7	A	A	344	143.060	25.115	6.773	1.00125.66	A16S
ATOM	7183	C8	A	A	344	143.728	24.838	5.682	1.00125.66	A16S
ATOM	7184	C2*	A	A	344	144.105	23.423	2.840	1.00113.78	A16S
ATOM	7185	O2*	A	A	344	143.877	22.372	1.926	1.00113.78	A16S
ATOM	7186	C3*	A	A	344	145.345	24.288	2.612	1.00113.78	A16S
ATOM	7187	O3*	A	A	344	145.772	24.474	1.245	1.00113.78	A16S
ATOM	7188	P	C	A	345	146.339	23.224	0.377	1.00120.88	A16S
ATOM	7189	O1P	C	A	345	147.517	22.681	1.108	1.00114.13	A16S
ATOM	7190	O2P	C	A	345	145.231	22.308	-0.018	1.00114.13	A16S
ATOM	7191	O5*	C	A	345	146.900	23.890	-0.961	1.00120.88	A16S
ATOM	7192	C5*	C	A	345	146.012	24.261	-2.032	1.00120.88	A16S
ATOM	7193	C4*	C	A	345	146.531	25.489	-2.739	1.00120.88	A16S
ATOM	7194	O4*	C	A	345	146.551	26.608	-1.816	1.00120.88	A16S
ATOM	7195	C1*	C	A	345	147.841	27.182	-1.786	1.00120.88	A16S
ATOM	7196	N1	C	A	345	148.109	27.692	-0.419	1.00114.13	A16S
ATOM	7197	C6	C	A	345	148.019	26.874	0.674	1.00114.13	A16S
ATOM	7198	C2	C	A	345	148.445	29.054	-0.255	1.00114.13	A16S
ATOM	7199	O2	C	A	345	148.548	29.781	-1.258	1.00114.13	A16S
ATOM	7200	N3	C	A	345	148.653	29.539	0.990	1.00114.13	A16S
ATOM	7201	C4	C	A	345	148.550	28.732	2.045	1.00114.13	A16S
ATOM	7202	N4	C	A	345	148.759	29.260	3.250	1.00114.13	A16S
ATOM	7203	C5	C	A	345	148.229	27.348	1.912	1.00114.13	A16S
ATOM	7204	C2*	C	A	345	148.800	26.109	-2.294	1.00120.88	A16S
ATOM	7205	O2*	C	A	345	149.942	26.715	-2.862	1.00120.88	A16S
ATOM	7206	C3*	C	A	345	147.934	25.382	-3.322	1.00120.88	A16S
ATOM	7207	O3*	C	A	345	147.958	26.090	-4.554	1.00120.88	A16S
ATOM	7208	P	G	A	346	147.543	25.339	-5.915	1.00139.21	A16S
ATOM	7209	O1P	G	A	346	147.891	26.239	-7.048	1.00136.04	A16S
ATOM	7210	O2P	G	A	346	148.096	23.957	-5.884	1.00136.04	A16S
ATOM	7211	O5*	G	A	346	145.952	25.250	-5.838	1.00139.21	A16S
ATOM	7212	C5*	G	A	346	145.129	26.434	-5.954	1.00139.21	A16S
ATOM	7213	C4*	G	A	346	143.671	26.061	-5.842	1.00139.21	A16S
ATOM	7214	O4*	G	A	346	143.486	25.277	-4.644	1.00139.21	A16S
ATOM	7215	C1*	G	A	346	142.172	25.459	-4.167	1.00139.21	A16S
ATOM	7216	N9	G	A	346	142.217	25.605	-2.717	1.00136.04	A16S
ATOM	7217	C4	G	A	346	142.902	26.552	-1.996	1.00136.04	A16S
ATOM	7218	N3	G	A	346	143.653	27.549	-2.508	1.00136.04	A16S
ATOM	7219	C2	G	A	346	144.189	28.298	-1.560	1.00136.04	A16S
ATOM	7220	N2	G	A	346	144.965	29.339	-1.892	1.00136.04	A16S
ATOM	7221	N1	G	A	346	144.003	28.081	-0.216	1.00136.04	A16S
ATOM	7222	C6	G	A	346	143.237	27.057	0.331	1.00136.04	A16S
ATOM	7223	O6	G	A	346	143.137	26.945	1.556	1.00136.04	A16S
ATOM	7224	C5	G	A	346	142.655	26.252	-0.673	1.00136.04	A16S
ATOM	7225	N7	G	A	346	141.828	25.144	-0.564	1.00136.04	A16S
ATOM	7226	C8	G	A	346	141.591	24.797	-1.799	1.00136.04	A16S
ATOM	7227	C2*	G	A	346	141.500	26.576	-4.971	1.00139.21	A16S
ATOM	7228	O2*	G	A	346	140.544	26.002	-5.838	1.00139.21	A16S
ATOM	7229	C3*	G	A	346	142.678	27.208	-5.717	1.00139.21	A16S
ATOM	7230	O3*	G	A	346	142.263	27.628	-7.017	1.00139.21	A16S
ATOM	7231	P	G	A	347	142.046	29.189	-7.336	1.00117.29	A16S



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ATOM	7232	O1P	G	A	347	143.385	29.829	-7.321	1.00	98.84	A16S
ATOM	7233	O2P	G	A	347	141.201	29.289	-8.550	1.00	98.84	A16S
ATOM	7234	O5*	G	A	347	141.191	29.743	-6.111	1.00117.29	A16S	
ATOM	7235	C5*	G	A	347	139.915	29.174	-5.805	1.00117.29	A16S	
ATOM	7236	C4*	G	A	347	139.493	29.536	-4.402	1.00117.29	A16S	
ATOM	7237	O4*	G	A	347	140.591	29.296	-3.478	1.00117.29	A16S	
ATOM	7238	C1*	G	A	347	140.495	30.193	-2.382	1.00117.29	A16S	
ATOM	7239	N9	G	A	347	141.694	31.025	-2.309	1.00	98.84	A16S
ATOM	7240	C4	G	A	347	142.153	31.667	-1.181	1.00	98.84	A16S
ATOM	7241	N3	G	A	347	141.602	31.594	0.050	1.00	98.84	A16S
ATOM	7242	C2	G	A	347	142.254	32.332	0.931	1.00	98.84	A16S
ATOM	7243	N2	G	A	347	141.843	32.358	2.203	1.00	98.84	A16S
ATOM	7244	N1	G	A	347	143.358	33.094	0.629	1.00	98.84	A16S
ATOM	7245	C6	G	A	347	143.945	33.189	-0.629	1.00	98.84	A16S
ATOM	7246	O6	G	A	347	144.938	33.910	-0.792	1.00	98.84	A16S
ATOM	7247	C5	G	A	347	143.257	32.388	-1.590	1.00	98.84	A16S
ATOM	7248	N7	G	A	347	143.504	32.186	-2.945	1.00	98.84	A16S
ATOM	7249	C8	G	A	347	142.559	31.365	-3.327	1.00	98.84	A16S
ATOM	7250	C2*	G	A	347	139.279	31.079	-2.622	1.00117.29	A16S	
ATOM	7251	O2*	G	A	347	138.172	30.548	-1.924	1.00117.29	A16S	
ATOM	7252	C3*	G	A	347	139.122	30.984	-4.135	1.00117.29	A16S	
ATOM	7253	O3*	G	A	347	137.800	31.315	-4.544	1.00117.29	A16S	
ATOM	7254	P	G	A	348	137.265	32.821	-4.339	1.00	77.90	A16S
ATOM	7255	O1P	G	A	348	138.386	33.749	-4.674	1.00	90.51	A16S
ATOM	7256	O2P	G	A	348	135.944	32.993	-5.006	1.00	90.51	A16S
ATOM	7257	O5*	G	A	348	137.007	32.888	-2.775	1.00	77.90	A16S
ATOM	7258	C5*	G	A	348	136.943	34.129	-2.106	1.00	77.90	A16S
ATOM	7259	C4*	G	A	348	137.234	33.928	-0.655	1.00	77.90	A16S
ATOM	7260	O4*	G	A	348	138.591	33.460	-0.490	1.00	77.90	A16S
ATOM	7261	C1*	G	A	348	139.158	34.044	0.673	1.00	77.90	A16S
ATOM	7262	N9	G	A	348	140.304	34.846	0.263	1.00	90.51	A16S
ATOM	7263	C4	G	A	348	141.026	35.680	1.068	1.00	90.51	A16S
ATOM	7264	N3	G	A	348	140.800	35.898	2.377	1.00	90.51	A16S
ATOM	7265	C2	G	A	348	141.661	36.755	2.890	1.00	90.51	A16S
ATOM	7266	N2	G	A	348	141.573	37.086	4.192	1.00	90.51	A16S
ATOM	7267	N1	G	A	348	142.668	37.353	2.165	1.00	90.51	A16S
ATOM	7268	C6	G	A	348	142.910	37.144	0.808	1.00	90.51	A16S
ATOM	7269	O6	G	A	348	143.836	37.739	0.241	1.00	90.51	A16S
ATOM	7270	C5	G	A	348	141.995	36.227	0.255	1.00	90.51	A16S
ATOM	7271	N7	G	A	348	141.881	35.746	-1.040	1.00	90.51	A16S
ATOM	7272	C8	G	A	348	140.867	34.928	-0.988	1.00	90.51	A16S
ATOM	7273	C2*	G	A	348	138.081	34.906	1.330	1.00	77.90	A16S
ATOM	7274	O2*	G	A	348	137.430	34.178	2.347	1.00	77.90	A16S
ATOM	7275	C3*	G	A	348	137.183	35.204	0.143	1.00	77.90	A16S
ATOM	7276	O3*	G	A	348	135.850	35.502	0.471	1.00	77.90	A16S
ATOM	7277	P	A	A	349	135.300	36.978	0.194	1.00100.46	A16S	
ATOM	7278	O1P	A	A	349	133.845	36.964	0.496	1.00	74.70	A16S
ATOM	7279	O2P	A	A	349	135.764	37.400	-1.156	1.00	74.70	A16S
ATOM	7280	O5*	A	A	349	136.068	37.829	1.298	1.00100.46	A16S	
ATOM	7281	C5*	A	A	349	136.016	37.430	2.677	1.00100.46	A16S	
ATOM	7282	C4*	A	A	349	136.808	38.380	3.526	1.00100.46	A16S	
ATOM	7283	O4*	A	A	349	138.225	38.108	3.417	1.00100.46	A16S	
ATOM	7284	C1*	A	A	349	138.948	39.321	3.515	1.00100.46	A16S	
ATOM	7285	N9	A	A	349	139.703	39.514	2.281	1.00	74.70	A16S
ATOM	7286	C4	A	A	349	140.856	40.249	2.173	1.00	74.70	A16S
ATOM	7287	N3	A	A	349	141.491	40.909	3.154	1.00	74.70	A16S
ATOM	7288	C2	A	A	349	142.581	41.507	2.688	1.00	74.70	A16S
ATOM	7289	N1	A	A	349	143.076	41.514	1.450	1.00	74.70	A16S
ATOM	7290	C6	A	A	349	142.416	40.842	0.485	1.00	74.70	A16S
ATOM	7291	N6	A	A	349	142.922	40.850	-0.750	1.00	74.70	A16S
ATOM	7292	C5	A	A	349	141.233	40.169	0.849	1.00	74.70	A16S
ATOM	7293	N7	A	A	349	140.328	39.403	0.127	1.00	74.70	A16S
ATOM	7294	C8	A	A	349	139.442	39.037	1.021	1.00	74.70	A16S
ATOM	7295	C2*	A	A	349	137.942	40.448	3.723	1.00100.46	A16S	
ATOM	7296	O2*	A	A	349	137.837	40.744	5.100	1.00100.46	A16S	
ATOM	7297	C3*	A	A	349	136.679	39.834	3.137	1.00100.46	A16S	
ATOM	7298	O3*	A	A	349	135.485	40.421	3.611	1.00100.46	A16S	
ATOM	7299	P	G	A	350	135.093	41.898	3.119	1.00	73.58	A16S
ATOM	7300	O1P	G	A	350	135.563	42.075	1.708	1.00	65.58	A16S
ATOM	7301	O2P	G	A	350	133.661	42.159	3.456	1.00	65.58	A16S
ATOM	7302	O5*	G	A	350	136.018	42.807	4.035	1.00	73.58	A16S
ATOM	7303	C5*	G	A	350	136.228	44.157	3.697	1.00	73.58	A16S
ATOM	7304	C4*	G	A	350	137.527	44.631	4.252	1.00	73.58	A16S
ATOM	7305	O4*	G	A	350	138.590	43.742	3.849	1.00	73.58	A16S
ATOM	7306	C1*	G	A	350	139.731	44.498	3.487	1.00	73.58	A16S
ATOM	7307	N9	G	A	350	140.032	44.197	2.090	1.00	65.58	A16S
ATOM	7308	C4	G	A	350	141.189	44.481	1.392	1.00	65.58	A16S



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ATOM	7309	N3	G	A	350	142.268	45.135	1.864	1.00	65.58	A16S
ATOM	7310	C2	G	A	350	143.219	45.243	0.946	1.00	65.58	A16S
ATOM	7311	N2	G	A	350	144.346	45.890	1.226	1.00	65.58	A16S
ATOM	7312	N1	G	A	350	143.129	44.733	-0.319	1.00	65.58	A16S
ATOM	7313	C6	G	A	350	142.031	44.055	-0.826	1.00	65.58	A16S
ATOM	7314	O6	G	A	350	142.048	43.633	-1.987	1.00	65.58	A16S
ATOM	7315	C5	G	A	350	140.996	43.948	0.134	1.00	65.58	A16S
ATOM	7316	N7	G	A	350	139.741	43.367	0.032	1.00	65.58	A16S
ATOM	7317	C8	G	A	350	139.205	43.541	1.209	1.00	65.58	A16S
ATOM	7318	C2*	G	A	350	139.415	45.971	3.770	1.00	73.58	A16S
ATOM	7319	O2*	G	A	350	139.881	46.298	5.063	1.00	73.58	A16S
ATOM	7320	C3*	G	A	350	137.895	45.981	3.691	1.00	73.58	A16S
ATOM	7321	O3*	G	A	350	137.259	46.985	4.466	1.00	73.58	A16S
ATOM	7322	P	G	A	351	135.863	47.617	3.964	1.00	71.87	A16S
ATOM	7323	O1P	G	A	351	134.915	47.540	5.107	1.00	65.96	A16S
ATOM	7324	O2P	G	A	351	135.462	47.050	2.645	1.00	65.96	A16S
ATOM	7325	O5*	G	A	351	136.231	49.141	3.696	1.00	71.87	A16S
ATOM	7326	C5*	G	A	351	136.776	49.960	4.747	1.00	71.87	A16S
ATOM	7327	C4*	G	A	351	137.893	50.819	4.214	1.00	71.87	A16S
ATOM	7328	O4*	G	A	351	138.913	49.949	3.700	1.00	71.87	A16S
ATOM	7329	C1*	G	A	351	139.489	50.529	2.566	1.00	71.87	A16S
ATOM	7330	N9	G	A	351	139.442	49.545	1.497	1.00	65.96	A16S
ATOM	7331	C4	G	A	351	140.438	49.307	0.594	1.00	65.96	A16S
ATOM	7332	N3	G	A	351	141.607	49.966	0.528	1.00	65.96	A16S
ATOM	7333	C2	G	A	351	142.364	49.519	-0.440	1.00	65.96	A16S
ATOM	7334	N2	G	A	351	143.554	50.090	-0.652	1.00	65.96	A16S
ATOM	7335	N1	G	A	351	142.009	48.488	-1.273	1.00	65.96	A16S
ATOM	7336	C6	G	A	351	140.809	47.793	-1.219	1.00	65.96	A16S
ATOM	7337	O6	G	A	351	140.587	46.884	-2.020	1.00	65.96	A16S
ATOM	7338	C5	G	A	351	139.984	48.273	-0.193	1.00	65.96	A16S
ATOM	7339	N7	G	A	351	138.716	47.875	0.202	1.00	65.96	A16S
ATOM	7340	C8	G	A	351	138.431	48.662	1.205	1.00	65.96	A16S
ATOM	7341	C2*	G	A	351	138.812	51.877	2.290	1.00	71.87	A16S
ATOM	7342	O2*	G	A	351	139.618	52.950	2.761	1.00	71.87	A16S
ATOM	7343	C3*	G	A	351	137.515	51.757	3.074	1.00	71.87	A16S
ATOM	7344	O3*	G	A	351	137.151	53.088	3.510	1.00	71.87	A16S
ATOM	7345	P	C	A	352	137.633	53.657	4.958	1.00	50.00	A16S
ATOM	7346	O1P	C	A	352	136.430	53.910	5.815	1.00	68.35	A16S
ATOM	7347	O2P	C	A	352	138.779	52.883	5.517	1.00	68.35	A16S
ATOM	7348	O5*	C	A	352	138.247	55.067	4.593	1.00	50.00	A16S
ATOM	7349	C5*	C	A	352	139.423	55.522	5.250	1.00	50.00	A16S
ATOM	7350	C4*	C	A	352	139.062	56.521	6.310	1.00	50.00	A16S
ATOM	7351	O4*	C	A	352	138.515	55.860	7.483	1.00	50.00	A16S
ATOM	7352	C1*	C	A	352	138.946	56.545	8.648	1.00	50.00	A16S
ATOM	7353	N1	C	A	352	139.850	55.666	9.401	1.00	68.35	A16S
ATOM	7354	C6	C	A	352	140.308	54.504	8.852	1.00	68.35	A16S
ATOM	7355	C2	C	A	352	140.261	56.052	10.683	1.00	68.35	A16S
ATOM	7356	O2	C	A	352	139.827	57.111	11.167	1.00	68.35	A16S
ATOM	7357	N3	C	A	352	141.128	55.267	11.360	1.00	68.35	A16S
ATOM	7358	C4	C	A	352	141.583	54.143	10.805	1.00	68.35	A16S
ATOM	7359	N4	C	A	352	142.448	53.402	11.502	1.00	68.35	A16S
ATOM	7360	C5	C	A	352	141.173	53.725	9.508	1.00	68.35	A16S
ATOM	7361	C2*	C	A	352	139.718	57.783	8.186	1.00	50.00	A16S
ATOM	7362	O2*	C	A	352	138.808	58.860	8.083	1.00	50.00	A16S
ATOM	7363	C3*	C	A	352	140.233	57.325	6.831	1.00	50.00	A16S
ATOM	7364	O3*	C	A	352	140.481	58.387	5.933	1.00	50.00	A16S
ATOM	7365	P	A	A	353	141.905	59.135	5.930	1.00	59.57	A16S
ATOM	7366	O1P	A	A	353	142.589	58.930	7.234	1.00	55.75	A16S
ATOM	7367	O2P	A	A	353	142.620	58.782	4.661	1.00	55.75	A16S
ATOM	7368	O5*	A	A	353	141.461	60.666	5.893	1.00	59.57	A16S
ATOM	7369	C5*	A	A	353	141.302	61.352	4.657	1.00	59.57	A16S
ATOM	7370	C4*	A	A	353	139.928	61.965	4.544	1.00	59.57	A16S
ATOM	7371	O4*	A	A	353	140.028	62.792	3.367	1.00	59.57	A16S
ATOM	7372	C1*	A	A	353	139.097	62.368	2.403	1.00	59.57	A16S
ATOM	7373	N9	A	A	353	139.801	61.530	1.433	1.00	55.75	A16S
ATOM	7374	C4	A	A	353	139.374	61.268	0.161	1.00	55.75	A16S
ATOM	7375	N3	A	A	353	138.270	61.743	-0.430	1.00	55.75	A16S
ATOM	7376	C2	A	A	353	138.171	61.285	-1.664	1.00	55.75	A16S
ATOM	7377	N1	A	A	353	138.980	60.456	-2.323	1.00	55.75	A16S
ATOM	7378	C6	A	A	353	140.076	59.977	-1.692	1.00	55.75	A16S
ATOM	7379	N6	A	A	353	140.862	59.108	-2.339	1.00	55.75	A16S
ATOM	7380	C5	A	A	353	140.309	60.413	-0.385	1.00	55.75	A16S
ATOM	7381	N7	A	A	353	141.331	60.156	0.520	1.00	55.75	A16S
ATOM	7382	C8	A	A	353	140.985	60.841	1.580	1.00	55.75	A16S
ATOM	7383	C2*	A	A	353	137.995	61.633	3.156	1.00	59.57	A16S
ATOM	7384	O2*	A	A	353	137.078	62.598	3.615	1.00	59.57	A16S
ATOM	7385	C3*	A	A	353	138.772	60.986	4.296	1.00	59.57	A16S



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ATOM	7386	O3*	A	A 353	137.936	60.910	5.460	1.00	59.57	A16S
ATOM	7387	P	G	A 354	136.622	59.954	5.486	1.00	54.54	A16S
ATOM	7388	O1P	G	A 354	137.074	58.561	5.703	1.00	65.65	A16S
ATOM	7389	O2P	G	A 354	135.711	60.249	4.342	1.00	65.65	A16S
ATOM	7390	O5*	G	A 354	135.911	60.358	6.865	1.00	54.54	A16S
ATOM	7391	C5*	G	A 354	135.299	61.657	7.044	1.00	54.54	A16S
ATOM	7392	C4*	G	A 354	134.249	61.632	8.153	1.00	54.54	A16S
ATOM	7393	O4*	G	A 354	133.519	60.371	8.153	1.00	54.54	A16S
ATOM	7394	C1*	G	A 354	133.159	60.026	9.481	1.00	54.54	A16S
ATOM	7395	N9	G	A 354	133.744	58.720	9.794	1.00	65.65	A16S
ATOM	7396	C4	G	A 354	133.767	58.084	11.024	1.00	65.65	A16S
ATOM	7397	N3	G	A 354	133.249	58.552	12.178	1.00	65.65	A16S
ATOM	7398	C2	G	A 354	133.423	57.704	13.178	1.00	65.65	A16S
ATOM	7399	N2	G	A 354	132.970	57.996	14.397	1.00	65.65	A16S
ATOM	7400	N1	G	A 354	134.051	56.506	13.056	1.00	65.65	A16S
ATOM	7401	C6	G	A 354	134.583	56.001	11.883	1.00	65.65	A16S
ATOM	7402	O6	G	A 354	135.110	54.894	11.885	1.00	65.65	A16S
ATOM	7403	C5	G	A 354	134.414	56.893	10.804	1.00	65.65	A16S
ATOM	7404	N7	G	A 354	134.797	56.775	9.476	1.00	65.65	A16S
ATOM	7405	C8	G	A 354	134.378	57.877	8.917	1.00	65.65	A16S
ATOM	7406	C2*	G	A 354	133.624	61.160	10.400	1.00	54.54	A16S
ATOM	7407	O2*	G	A 354	132.540	62.038	10.630	1.00	54.54	A16S
ATOM	7408	C3*	G	A 354	134.746	61.794	9.582	1.00	54.54	A16S
ATOM	7409	O3*	G	A 354	134.906	63.175	9.897	1.00	54.54	A16S
ATOM	7410	P	C	A 355	136.008	63.632	10.980	1.00	54.89	A16S
ATOM	7411	O1P	C	A 355	135.881	65.101	11.111	1.00	70.53	A16S
ATOM	7412	O2P	C	A 355	137.339	63.045	10.665	1.00	70.53	A16S
ATOM	7413	O5*	C	A 355	135.495	62.970	12.333	1.00	54.89	A16S
ATOM	7414	C5*	C	A 355	134.424	63.559	13.083	1.00	54.89	A16S
ATOM	7415	C4*	C	A 355	134.359	62.942	14.455	1.00	54.89	A16S
ATOM	7416	O4*	C	A 355	133.967	61.553	14.333	1.00	54.89	A16S
ATOM	7417	C1*	C	A 355	134.650	60.779	15.305	1.00	54.89	A16S
ATOM	7418	N1	C	A 355	135.445	59.738	14.614	1.00	70.53	A16S
ATOM	7419	C6	C	A 355	135.787	59.868	13.299	1.00	70.53	A16S
ATOM	7420	C2	C	A 355	135.830	58.606	15.325	1.00	70.53	A16S
ATOM	7421	O2	C	A 355	135.546	58.527	16.523	1.00	70.53	A16S
ATOM	7422	N3	C	A 355	136.509	57.629	14.698	1.00	70.53	A16S
ATOM	7423	C4	C	A 355	136.820	57.758	13.415	1.00	70.53	A16S
ATOM	7424	N4	C	A 355	137.484	56.761	12.835	1.00	70.53	A16S
ATOM	7425	C5	C	A 355	136.467	58.910	12.668	1.00	70.53	A16S
ATOM	7426	C2*	C	A 355	135.485	61.734	16.157	1.00	54.89	A16S
ATOM	7427	O2*	C	A 355	134.722	62.131	17.272	1.00	54.89	A16S
ATOM	7428	C3*	C	A 355	135.675	62.901	15.210	1.00	54.89	A16S
ATOM	7429	O3*	C	A 355	135.897	64.087	15.929	1.00	54.89	A16S
ATOM	7430	P	A	A 356	137.367	64.701	15.973	1.00	56.14	A16S
ATOM	7431	O1P	A	A 356	137.302	65.976	16.718	1.00	71.41	A16S
ATOM	7432	O2P	A	A 356	137.903	64.689	14.591	1.00	71.41	A16S
ATOM	7433	O5*	A	A 356	138.189	63.640	16.821	1.00	56.14	A16S
ATOM	7434	C5*	A	A 356	137.940	63.490	18.217	1.00	56.14	A16S
ATOM	7435	C4*	A	A 356	138.577	62.223	18.749	1.00	56.14	A16S
ATOM	7436	O4*	A	A 356	137.936	61.041	18.194	1.00	56.14	A16S
ATOM	7437	C1*	A	A 356	138.811	59.936	18.341	1.00	56.14	A16S
ATOM	7438	N9	A	A 356	138.971	59.249	17.062	1.00	71.41	A16S
ATOM	7439	C4	A	A 356	139.460	57.976	16.927	1.00	71.41	A16S
ATOM	7440	N3	A	A 356	139.805	57.135	17.910	1.00	71.41	A16S
ATOM	7441	C2	A	A 356	140.274	56.001	17.410	1.00	71.41	A16S
ATOM	7442	N1	A	A 356	140.438	55.643	16.137	1.00	71.41	A16S
ATOM	7443	C6	A	A 356	140.093	56.517	15.174	1.00	71.41	A16S
ATOM	7444	N6	A	A 356	140.299	56.173	13.902	1.00	71.41	A16S
ATOM	7445	C5	A	A 356	139.554	57.749	15.574	1.00	71.41	A16S
ATOM	7446	N7	A	A 356	139.083	58.841	14.863	1.00	71.41	A16S
ATOM	7447	C8	A	A 356	138.742	59.698	15.792	1.00	71.41	A16S
ATOM	7448	C2*	A	A 356	140.149	60.473	18.854	1.00	56.14	A16S
ATOM	7449	O2*	A	A 356	140.188	60.293	20.257	1.00	56.14	A16S
ATOM	7450	C3*	A	A 356	140.057	61.954	18.515	1.00	56.14	A16S
ATOM	7451	O3*	A	A 356	140.887	62.671	19.405	1.00	56.14	A16S
ATOM	7452	P	G	A 357	142.462	62.748	19.122	1.00	62.56	A16S
ATOM	7453	O1P	G	A 357	143.097	63.247	20.375	1.00	78.81	A16S
ATOM	7454	O2P	G	A 357	142.696	63.477	17.848	1.00	78.81	A16S
ATOM	7455	O5*	G	A 357	142.881	61.225	18.873	1.00	62.56	A16S
ATOM	7456	C5*	G	A 357	143.130	60.331	19.990	1.00	62.56	A16S
ATOM	7457	C4*	G	A 357	143.661	58.989	19.518	1.00	62.56	A16S
ATOM	7458	O4*	G	A 357	142.683	58.339	18.670	1.00	62.56	A16S
ATOM	7459	C1*	G	A 357	143.346	57.585	17.671	1.00	62.56	A16S
ATOM	7460	N9	G	A 357	142.997	58.150	16.376	1.00	78.81	A16S
ATOM	7461	C4	G	A 357	143.260	57.599	15.149	1.00	78.81	A16S
ATOM	7462	N3	G	A 357	143.880	56.429	14.928	1.00	78.81	A16S



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ATOM	7463	C2	G	A	357	143.993	56.171	13.642	1.00	78.81	A16S
ATOM	7464	N2	G	A	357	144.589	55.046	13.246	1.00	78.81	A16S
ATOM	7465	N1	G	A	357	143.530	56.998	12.652	1.00	78.81	A16S
ATOM	7466	C6	G	A	357	142.884	58.207	12.863	1.00	78.81	A16S
ATOM	7467	O6	G	A	357	142.492	58.877	11.903	1.00	78.81	A16S
ATOM	7468	C5	G	A	357	142.764	58.495	14.233	1.00	78.81	A16S
ATOM	7469	N7	G	A	357	142.199	59.588	14.871	1.00	78.81	A16S
ATOM	7470	C8	G	A	357	142.359	59.339	16.140	1.00	78.81	A16S
ATOM	7471	C2*	G	A	357	144.848	57.689	17.928	1.00	62.56	A16S
ATOM	7472	O2*	G	A	357	145.247	56.588	18.712	1.00	62.56	A16S
ATOM	7473	C3*	G	A	357	144.939	58.998	18.695	1.00	62.56	A16S
ATOM	7474	O3*	G	A	357	146.081	59.006	19.528	1.00	62.56	A16S
ATOM	7475	P	U	A	358	147.513	59.356	18.898	1.00	66.54	A16S
ATOM	7476	O1P	U	A	358	148.475	59.436	20.026	1.00	71.75	A16S
ATOM	7477	O2P	U	A	358	147.363	60.515	17.976	1.00	71.75	A16S
ATOM	7478	O5*	U	A	358	147.862	58.074	18.025	1.00	66.54	A16S
ATOM	7479	C5*	U	A	358	148.061	56.798	18.648	1.00	66.54	A16S
ATOM	7480	O4*	U	A	358	148.571	55.795	17.645	1.00	66.54	A16S
ATOM	7481	O4*	U	A	358	147.552	55.496	16.662	1.00	66.54	A16S
ATOM	7482	C1*	U	A	358	148.166	55.233	15.415	1.00	66.54	A16S
ATOM	7483	N1	U	A	358	147.596	56.134	14.406	1.00	71.75	A16S
ATOM	7484	C6	U	A	358	147.145	57.392	14.729	1.00	71.75	A16S
ATOM	7485	C2	U	A	358	147.527	55.666	13.109	1.00	71.75	A16S
ATOM	7486	O2	U	A	358	147.911	54.554	12.779	1.00	71.75	A16S
ATOM	7487	N3	U	A	358	146.987	56.544	12.205	1.00	71.75	A16S
ATOM	7488	C4	U	A	358	146.521	57.809	12.458	1.00	71.75	A16S
ATOM	7489	O4	U	A	358	146.079	58.482	11.528	1.00	71.75	A16S
ATOM	7490	C5	U	A	358	146.622	58.222	13.825	1.00	71.75	A16S
ATOM	7491	C2*	U	A	358	149.677	55.389	15.583	1.00	66.54	A16S
ATOM	7492	O2*	U	A	358	150.256	54.123	15.805	1.00	66.54	A16S
ATOM	7493	C3*	U	A	358	149.761	56.252	16.829	1.00	66.54	A16S
ATOM	7494	O3*	U	A	358	150.959	56.019	17.529	1.00	66.54	A16S
ATOM	7495	P	U	A	359	152.246	56.900	17.184	1.00	59.77	A16S
ATOM	7496	O1P	U	A	359	153.315	56.459	18.128	1.00	79.45	A16S
ATOM	7497	O2P	U	A	359	151.844	58.337	17.140	1.00	79.45	A16S
ATOM	7498	O5*	U	A	359	152.607	56.465	15.692	1.00	59.77	A16S
ATOM	7499	C5*	U	A	359	153.191	55.183	15.412	1.00	59.77	A16S
ATOM	7500	C4*	U	A	359	153.338	54.992	13.922	1.00	59.77	A16S
ATOM	7501	O4*	U	A	359	152.024	55.025	13.311	1.00	59.77	A16S
ATOM	7502	C1*	U	A	359	152.118	55.604	12.023	1.00	59.77	A16S
ATOM	7503	N1	U	A	359	151.232	56.774	11.951	1.00	79.45	A16S
ATOM	7504	C6	U	A	359	150.775	57.414	13.080	1.00	79.45	A16S
ATOM	7505	C2	U	A	359	150.883	57.222	10.691	1.00	79.45	A16S
ATOM	7506	O2	U	A	359	151.262	56.682	9.665	1.00	79.45	A16S
ATOM	7507	N3	U	A	359	150.080	58.328	10.671	1.00	79.45	A16S
ATOM	7508	C4	U	A	359	149.601	59.024	11.752	1.00	79.45	A16S
ATOM	7509	O4	U	A	359	148.911	60.028	11.561	1.00	79.45	A16S
ATOM	7510	C5	U	A	359	149.996	58.497	13.026	1.00	79.45	A16S
ATOM	7511	C2*	U	A	359	153.580	55.973	11.767	1.00	59.77	A16S
ATOM	7512	O2*	U	A	359	154.176	54.974	10.971	1.00	59.77	A16S
ATOM	7513	C3*	U	A	359	154.136	56.054	13.182	1.00	59.77	A16S
ATOM	7514	O3*	U	A	359	155.526	55.781	13.210	1.00	59.77	A16S
ATOM	7515	P	A	A	360	156.577	56.964	12.912	1.00	49.94	A16S
ATOM	7516	O1P	A	A	360	157.952	56.420	13.063	1.00	89.50	A16S
ATOM	7517	O2P	A	A	360	156.177	58.151	13.707	1.00	89.50	A16S
ATOM	7518	O5*	A	A	360	156.358	57.291	11.367	1.00	49.94	A16S
ATOM	7519	C5*	A	A	360	156.737	56.340	10.359	1.00	49.94	A16S
ATOM	7520	C4*	A	A	360	156.451	56.883	8.982	1.00	49.94	A16S
ATOM	7521	O4*	A	A	360	155.022	56.959	8.752	1.00	49.94	A16S
ATOM	7522	C1*	A	A	360	154.733	58.085	7.945	1.00	49.94	A16S
ATOM	7523	N9	A	A	360	153.894	58.988	8.727	1.00	89.50	A16S
ATOM	7524	C4	A	A	360	153.031	59.925	8.224	1.00	89.50	A16S
ATOM	7525	N3	A	A	360	152.789	60.193	6.934	1.00	89.50	A16S
ATOM	7526	C2	A	A	360	151.891	61.163	6.823	1.00	89.50	A16S
ATOM	7527	N1	A	A	360	151.253	61.836	7.781	1.00	89.50	A16S
ATOM	7528	C6	A	A	360	151.516	61.535	9.065	1.00	89.50	A16S
ATOM	7529	N6	A	A	360	150.865	62.196	10.017	1.00	89.50	A16S
ATOM	7530	C5	A	A	360	152.457	60.535	9.319	1.00	89.50	A16S
ATOM	7531	N7	A	A	360	152.954	60.001	10.497	1.00	89.50	A16S
ATOM	7532	C8	A	A	360	153.800	59.089	10.094	1.00	89.50	A16S
ATOM	7533	C2*	A	A	360	156.063	58.736	7.568	1.00	49.94	A16S
ATOM	7534	O2*	A	A	360	156.499	58.201	6.339	1.00	49.94	A16S
ATOM	7535	C3*	A	A	360	156.956	58.284	8.710	1.00	49.94	A16S
ATOM	7536	O3*	A	A	360	158.315	58.259	8.345	1.00	49.94	A16S
ATOM	7537	P	G	A	361	159.258	59.498	8.732	1.00	51.59	A16S
ATOM	7538	O1P	G	A	361	158.988	59.885	10.148	1.00	82.91	A16S
ATOM	7539	O2P	G	A	361	160.637	59.120	8.329	1.00	82.91	A16S



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ATOM	7540	O5*	G	A	361	158.743	60.658	7.763	1.00	51.59	A16S
ATOM	7541	C5*	G	A	361	158.862	60.518	6.331	1.00	51.59	A16S
ATOM	7542	C4*	G	A	361	158.188	61.664	5.619	1.00	51.59	A16S
ATOM	7543	O4*	G	A	361	156.749	61.549	5.730	1.00	51.59	A16S
ATOM	7544	C1*	G	A	361	156.175	62.835	5.865	1.00	51.59	A16S
ATOM	7545	N9	G	A	361	155.613	62.926	7.209	1.00	82.91	A16S
ATOM	7546	C4	G	A	361	154.529	63.672	7.613	1.00	82.91	A16S
ATOM	7547	N3	G	A	361	153.734	64.418	6.820	1.00	82.91	A16S
ATOM	7548	C2	G	A	361	152.796	65.047	7.515	1.00	82.91	A16S
ATOM	7549	N2	G	A	361	151.902	65.830	6.888	1.00	82.91	A16S
ATOM	7550	N1	G	A	361	152.662	64.956	8.876	1.00	82.91	A16S
ATOM	7551	C6	G	A	361	153.471	64.199	9.709	1.00	82.91	A16S
ATOM	7552	O6	G	A	361	153.276	64.204	10.925	1.00	82.91	A16S
ATOM	7553	C5	G	A	361	154.465	63.509	8.981	1.00	82.91	A16S
ATOM	7554	N7	G	A	361	155.458	62.648	9.422	1.00	82.91	A16S
ATOM	7555	C8	G	A	361	156.105	62.320	8.340	1.00	82.91	A16S
ATOM	7556	C2*	G	A	361	157.310	63.850	5.710	1.00	51.59	A16S
ATOM	7557	O2*	G	A	361	157.442	64.236	4.364	1.00	51.59	A16S
ATOM	7558	C3*	G	A	361	158.512	63.038	6.156	1.00	51.59	A16S
ATOM	7559	O3*	G	A	361	159.720	63.531	5.621	1.00	51.59	A16S
ATOM	7560	P	G	A	362	160.720	64.346	6.573	1.00	59.87	A16S
ATOM	7561	O1P	G	A	362	161.890	64.765	5.760	1.00	83.53	A16S
ATOM	7562	O2P	G	A	362	160.928	63.581	7.836	1.00	83.53	A16S
ATOM	7563	O5*	G	A	362	159.896	65.654	6.923	1.00	59.87	A16S
ATOM	7564	C5*	G	A	362	159.353	66.466	5.877	1.00	59.87	A16S
ATOM	7565	C4*	G	A	362	158.468	67.549	6.448	1.00	59.87	A16S
ATOM	7566	O4*	G	A	362	157.218	66.992	6.934	1.00	59.87	A16S
ATOM	7567	C1*	G	A	362	156.756	67.763	8.030	1.00	59.87	A16S
ATOM	7568	N9	G	A	362	156.797	66.926	9.223	1.00	83.53	A16S
ATOM	7569	C4	G	A	362	155.888	66.918	10.241	1.00	83.53	A16S
ATOM	7570	N3	G	A	362	154.776	67.670	10.308	1.00	83.53	A16S
ATOM	7571	C2	G	A	362	154.104	67.448	11.415	1.00	83.53	A16S
ATOM	7572	N2	G	A	362	152.964	68.108	11.643	1.00	83.53	A16S
ATOM	7573	N1	G	A	362	154.498	66.557	12.382	1.00	83.53	A16S
ATOM	7574	C6	G	A	362	155.642	65.766	12.326	1.00	83.53	A16S
ATOM	7575	O6	G	A	362	155.907	64.973	13.250	1.00	83.53	A16S
ATOM	7576	C5	G	A	362	156.365	65.998	11.150	1.00	83.53	A16S
ATOM	7577	N7	G	A	362	157.548	65.431	10.707	1.00	83.53	A16S
ATOM	7578	C8	G	A	362	157.765	66.010	9.559	1.00	83.53	A16S
ATOM	7579	C2*	G	A	362	157.720	68.936	8.190	1.00	59.87	A16S
ATOM	7580	O2*	G	A	362	157.264	70.013	7.386	1.00	59.87	A16S
ATOM	7581	C3*	G	A	362	158.998	68.341	7.632	1.00	59.87	A16S
ATOM	7582	O3*	G	A	362	159.922	69.336	7.266	1.00	59.87	A16S
ATOM	7583	P	A	A	363	161.116	69.683	8.267	1.00	65.96	A16S
ATOM	7584	O1P	A	A	363	161.470	68.399	8.920	1.00	58.88	A16S
ATOM	7585	O2P	A	A	363	162.169	70.488	7.591	1.00	58.88	A16S
ATOM	7586	O5*	A	A	363	160.436	70.611	9.362	1.00	65.96	A16S
ATOM	7587	C5*	A	A	363	161.242	71.236	10.374	1.00	65.96	A16S
ATOM	7588	C4*	A	A	363	160.446	72.276	11.112	1.00	65.96	A16S
ATOM	7589	O4*	A	A	363	160.186	73.405	10.247	1.00	65.96	A16S
ATOM	7590	C1*	A	A	363	158.936	73.975	10.579	1.00	65.96	A16S
ATOM	7591	N9	A	A	363	158.092	73.917	9.396	1.00	58.88	A16S
ATOM	7592	C4	A	A	363	156.923	74.609	9.219	1.00	58.88	A16S
ATOM	7593	N3	A	A	363	156.363	75.486	10.068	1.00	58.88	A16S
ATOM	7594	C2	A	A	363	155.220	75.947	9.568	1.00	58.88	A16S
ATOM	7595	N1	A	A	363	154.621	75.651	8.407	1.00	58.88	A16S
ATOM	7596	C6	A	A	363	155.220	74.768	7.580	1.00	58.88	A16S
ATOM	7597	N6	A	A	363	154.634	74.472	6.423	1.00	58.88	A16S
ATOM	7598	C5	A	A	363	156.433	74.212	7.988	1.00	58.88	A16S
ATOM	7599	N7	A	A	363	157.293	73.305	7.383	1.00	58.88	A16S
ATOM	7600	C8	A	A	363	158.262	73.167	8.256	1.00	58.88	A16S
ATOM	7601	C2*	A	A	363	158.340	73.170	11.736	1.00	65.96	A16S
ATOM	7602	O2*	A	A	363	158.602	73.826	12.967	1.00	65.96	A16S
ATOM	7603	C3*	A	A	363	159.077	71.843	11.600	1.00	65.96	A16S
ATOM	7604	O3*	A	A	363	159.183	71.162	12.840	1.00	65.96	A16S
ATOM	7605	P	A	A	364	158.193	69.940	13.164	1.00	65.71	A16S
ATOM	7606	O1P	A	A	364	158.562	69.463	14.525	1.00	76.25	A16S
ATOM	7607	O2P	A	A	364	158.177	68.982	12.023	1.00	76.25	A16S
ATOM	7608	O5*	A	A	364	156.768	70.637	13.227	1.00	65.71	A16S
ATOM	7609	C5*	A	A	364	156.455	71.594	14.254	1.00	65.71	A16S
ATOM	7610	C4*	A	A	364	155.031	72.036	14.098	1.00	65.71	A16S
ATOM	7611	O4*	A	A	364	154.922	72.759	12.854	1.00	65.71	A16S
ATOM	7612	C1*	A	A	364	153.712	72.417	12.206	1.00	65.71	A16S
ATOM	7613	N9	A	A	364	154.040	71.972	10.851	1.00	76.25	A16S
ATOM	7614	C4	A	A	364	153.410	72.380	9.702	1.00	76.25	A16S
ATOM	7615	N3	A	A	364	152.391	73.248	9.599	1.00	76.25	A16S
ATOM	7616	C2	A	A	364	152.027	73.394	8.331	1.00	76.25	A16S



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ATOM	7617	N1	A	A	364	152.523	72.814	7.236	1.00	76.25	A16S
ATOM	7618	C6	A	A	364	153.550	71.950	7.371	1.00	76.25	A16S
ATOM	7619	N6	A	A	364	154.045	71.375	6.271	1.00	76.25	A16S
ATOM	7620	C5	A	A	364	154.035	71.711	8.670	1.00	76.25	A16S
ATOM	7621	N7	A	A	364	155.051	70.902	9.155	1.00	76.25	A16S
ATOM	7622	C8	A	A	364	155.015	71.093	10.451	1.00	76.25	A16S
ATOM	7623	C2*	A	A	364	152.953	71.415	13.085	1.00	65.71	A16S
ATOM	7624	O2*	A	A	364	151.940	72.058	13.831	1.00	65.71	A16S
ATOM	7625	C3*	A	A	364	154.065	70.872	13.972	1.00	65.71	A16S
ATOM	7626	O3*	A	A	364	153.604	70.510	15.257	1.00	65.71	A16S
ATOM	7627	P	U	A	365	152.913	69.088	15.477	1.00	53.48	A16S
ATOM	7628	O1P	U	A	365	153.068	68.757	16.915	1.00	72.61	A16S
ATOM	7629	O2P	U	A	365	153.406	68.145	14.448	1.00	72.61	A16S
ATOM	7630	O5*	U	A	365	151.376	69.361	15.178	1.00	53.48	A16S
ATOM	7631	C5*	U	A	365	150.577	70.139	16.076	1.00	53.48	A16S
ATOM	7632	C4*	U	A	365	149.229	70.416	15.461	1.00	53.48	A16S
ATOM	7633	O4*	U	A	365	149.375	71.271	14.309	1.00	53.48	A16S
ATOM	7634	C1*	U	A	365	148.228	71.121	13.509	1.00	53.48	A16S
ATOM	7635	N1	U	A	365	148.560	71.376	12.100	1.00	72.61	A16S
ATOM	7636	C6	U	A	365	147.821	72.286	11.391	1.00	72.61	A16S
ATOM	7637	C2	U	A	365	149.621	70.710	11.509	1.00	72.61	A16S
ATOM	7638	O2	U	A	365	150.300	69.886	12.094	1.00	72.61	A16S
ATOM	7639	N3	U	A	365	149.855	71.052	10.197	1.00	72.61	A16S
ATOM	7640	C4	U	A	365	149.149	71.965	9.438	1.00	72.61	A16S
ATOM	7641	O4	U	A	365	149.459	72.155	8.265	1.00	72.61	A16S
ATOM	7642	C5	U	A	365	148.075	72.595	10.120	1.00	72.61	A16S
ATOM	7643	C2*	U	A	365	147.537	69.804	13.874	1.00	53.48	A16S
ATOM	7644	O2*	U	A	365	146.278	70.108	14.421	1.00	53.48	A16S
ATOM	7645	C3*	U	A	365	148.477	69.206	14.928	1.00	53.48	A16S
ATOM	7646	O3*	U	A	365	147.707	68.645	15.992	1.00	53.48	A16S
ATOM	7647	P	C	A	366	147.884	67.100	16.400	1.00	62.30	A16S
ATOM	7648	O1P	C	A	366	149.340	66.830	16.543	1.00	63.04	A16S
ATOM	7649	O2P	C	A	366	147.059	66.252	15.505	1.00	63.04	A16S
ATOM	7650	O5*	C	A	366	147.222	67.045	17.842	1.00	62.30	A16S
ATOM	7651	C5*	C	A	366	147.877	67.647	18.972	1.00	62.30	A16S
ATOM	7652	C4*	C	A	366	146.941	67.690	20.159	1.00	62.30	A16S
ATOM	7653	O4*	C	A	366	145.981	68.764	19.978	1.00	62.30	A16S
ATOM	7654	C1*	C	A	366	144.656	68.259	19.993	1.00	62.30	A16S
ATOM	7655	N1	C	A	366	143.937	68.920	18.882	1.00	63.04	A16S
ATOM	7656	C6	C	A	366	144.628	69.347	17.786	1.00	63.04	A16S
ATOM	7657	C2	C	A	366	142.549	69.134	18.965	1.00	63.04	A16S
ATOM	7658	O2	C	A	366	141.929	68.704	19.931	1.00	63.04	A16S
ATOM	7659	N3	C	A	366	141.925	69.804	17.977	1.00	63.04	A16S
ATOM	7660	C4	C	A	366	142.621	70.236	16.926	1.00	63.04	A16S
ATOM	7661	N4	C	A	366	141.975	70.907	15.975	1.00	63.04	A16S
ATOM	7662	C5	C	A	366	144.018	70.003	16.799	1.00	63.04	A16S
ATOM	7663	C2*	C	A	366	144.741	66.737	19.863	1.00	62.30	A16S
ATOM	7664	O2*	C	A	366	143.662	66.062	20.483	1.00	62.30	A16S
ATOM	7665	C3*	C	A	366	146.142	66.417	20.416	1.00	62.30	A16S
ATOM	7666	O3*	C	A	366	146.376	65.824	21.735	1.00	62.30	A16S
ATOM	7667	P	U	A	367	145.789	66.501	23.081	1.00	57.55	A16S
ATOM	7668	O1P	U	A	367	144.773	67.515	22.719	1.00	86.83	A16S
ATOM	7669	O2P	U	A	367	146.954	66.905	23.910	1.00	86.83	A16S
ATOM	7670	O5*	U	A	367	145.039	65.316	23.842	1.00	57.55	A16S
ATOM	7671	C5*	U	A	367	144.454	64.203	23.132	1.00	57.55	A16S
ATOM	7672	C4*	U	A	367	143.300	63.656	23.927	1.00	57.55	A16S
ATOM	7673	O4*	U	A	367	142.220	64.615	23.879	1.00	57.55	A16S
ATOM	7674	C1*	U	A	367	141.033	63.979	23.475	1.00	57.55	A16S
ATOM	7675	N1	U	A	367	140.240	64.950	22.705	1.00	86.83	A16S
ATOM	7676	C6	U	A	367	140.521	65.234	21.391	1.00	86.83	A16S
ATOM	7677	C2	U	A	367	139.201	65.588	23.360	1.00	86.83	A16S
ATOM	7678	O2	U	A	367	138.905	65.353	24.514	1.00	86.83	A16S
ATOM	7679	N3	U	A	367	138.521	66.513	22.610	1.00	86.83	A16S
ATOM	7680	C4	U	A	367	138.761	66.858	21.297	1.00	86.83	A16S
ATOM	7681	O4	U	A	367	138.112	67.773	20.777	1.00	86.83	A16S
ATOM	7682	C5	U	A	367	139.835	66.140	20.684	1.00	86.83	A16S
ATOM	7683	C2*	U	A	367	141.459	62.714	22.732	1.00	57.55	A16S
ATOM	7684	O2*	U	A	367	140.438	61.733	22.791	1.00	57.55	A16S
ATOM	7685	C3*	U	A	367	142.711	62.316	23.507	1.00	57.55	A16S
ATOM	7686	O3*	U	A	367	142.321	61.618	24.695	1.00	57.55	A16S
ATOM	7687	P	U	A	368	143.237	60.418	25.275	1.00	62.00	A16S
ATOM	7688	O1P	U	A	368	142.752	60.135	26.660	1.00	93.17	A16S
ATOM	7689	O2P	U	A	368	144.681	60.715	25.040	1.00	93.17	A16S
ATOM	7690	O5*	U	A	368	142.844	59.170	24.377	1.00	62.00	A16S
ATOM	7691	C5*	U	A	368	141.529	58.616	24.449	1.00	62.00	A16S
ATOM	7692	C4*	U	A	368	140.979	58.425	23.067	1.00	62.00	A16S
ATOM	7693	O4*	U	A	368	141.772	57.472	22.319	1.00	62.00	A16S



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ATOM	7694	C1*	U	A	368	140.928	56.732	21.462	1.00	62.00	A16S
ATOM	7695	N1	U	A	368	141.204	55.300	21.655	1.00	93.17	A16S
ATOM	7696	C6	U	A	368	140.565	54.562	22.625	1.00	93.17	A16S
ATOM	7697	C2	U	A	368	142.127	54.711	20.809	1.00	93.17	A16S
ATOM	7698	O2	U	A	368	142.746	55.337	19.962	1.00	93.17	A16S
ATOM	7699	N3	U	A	368	142.306	53.361	20.995	1.00	93.17	A16S
ATOM	7700	C4	U	A	368	141.677	52.558	21.923	1.00	93.17	A16S
ATOM	7701	O4	U	A	368	141.838	51.336	21.875	1.00	93.17	A16S
ATOM	7702	C5	U	A	368	140.766	53.249	22.784	1.00	93.17	A16S
ATOM	7703	C2*	U	A	368	139.480	57.170	21.709	1.00	62.00	A16S
ATOM	7704	O2*	U	A	368	139.026	58.042	20.694	1.00	62.00	A16S
ATOM	7705	C3*	U	A	368	139.585	57.860	23.062	1.00	62.00	A16S
ATOM	7706	O3*	U	A	368	138.710	58.949	23.152	1.00	62.00	A16S
ATOM	7707	P	C	A	369	137.148	58.690	23.277	1.00	60.87	A16S
ATOM	7708	O1P	C	A	369	136.892	57.250	23.540	1.00	81.66	A16S
ATOM	7709	O2P	C	A	369	136.529	59.336	22.097	1.00	81.66	A16S
ATOM	7710	O5*	C	A	369	136.775	59.509	24.587	1.00	60.87	A16S
ATOM	7711	C5*	C	A	369	137.555	59.365	25.794	1.00	60.87	A16S
ATOM	7712	C4*	C	A	369	137.189	60.449	26.781	1.00	60.87	A16S
ATOM	7713	O4*	C	A	369	137.678	61.728	26.303	1.00	60.87	A16S
ATOM	7714	C1*	C	A	369	136.701	62.729	26.516	1.00	60.87	A16S
ATOM	7715	N1	C	A	369	136.285	63.251	25.195	1.00	81.66	A16S
ATOM	7716	C6	C	A	369	136.532	62.546	24.049	1.00	81.66	A16S
ATOM	7717	C2	C	A	369	135.641	64.485	25.131	1.00	81.66	A16S
ATOM	7718	O2	C	A	369	135.413	65.096	26.185	1.00	81.66	A16S
ATOM	7719	N3	C	A	369	135.279	64.983	23.927	1.00	81.66	A16S
ATOM	7720	C4	C	A	369	135.534	64.292	22.819	1.00	81.66	A16S
ATOM	7721	N4	C	A	369	135.168	64.824	21.654	1.00	81.66	A16S
ATOM	7722	C5	C	A	369	136.177	63.025	22.854	1.00	81.66	A16S
ATOM	7723	C2*	C	A	369	135.565	62.103	27.326	1.00	60.87	A16S
ATOM	7724	O2*	C	A	369	135.792	62.344	28.698	1.00	60.87	A16S
ATOM	7725	C3*	C	A	369	135.694	60.633	26.948	1.00	60.87	A16S
ATOM	7726	O3*	C	A	369	135.189	59.742	27.924	1.00	60.87	A16S
ATOM	7727	P	C	A	370	133.655	59.286	27.854	1.00	62.31	A16S
ATOM	7728	O1P	C	A	370	133.345	58.918	26.443	1.00	76.23	A16S
ATOM	7729	O2P	C	A	370	133.396	58.311	28.949	1.00	76.23	A16S
ATOM	7730	O5*	C	A	370	132.863	60.625	28.175	1.00	62.31	A16S
ATOM	7731	C5*	C	A	370	132.903	61.201	29.486	1.00	62.31	A16S
ATOM	7732	C4*	C	A	370	131.757	62.156	29.661	1.00	62.31	A16S
ATOM	7733	O4*	C	A	370	132.067	63.428	29.034	1.00	62.31	A16S
ATOM	7734	C1*	C	A	370	130.890	63.967	28.456	1.00	62.31	A16S
ATOM	7735	N1	C	A	370	131.098	64.124	27.003	1.00	76.23	A16S
ATOM	7736	C6	C	A	370	132.038	63.387	26.342	1.00	76.23	A16S
ATOM	7737	C2	C	A	370	130.303	65.035	26.306	1.00	76.23	A16S
ATOM	7738	O2	C	A	370	129.473	65.711	26.932	1.00	76.23	A16S
ATOM	7739	N3	C	A	370	130.460	65.158	24.971	1.00	76.23	A16S
ATOM	7740	C4	C	A	370	131.367	64.418	24.336	1.00	76.23	A16S
ATOM	7741	N4	C	A	370	131.470	64.551	23.015	1.00	76.23	A16S
ATOM	7742	C5	C	A	370	132.204	63.503	25.024	1.00	76.23	A16S
ATOM	7743	C2*	C	A	370	129.729	63.019	28.774	1.00	62.31	A16S
ATOM	7744	O2*	C	A	370	129.045	63.504	29.907	1.00	62.31	A16S
ATOM	7745	C3*	C	A	370	130.457	61.698	29.018	1.00	62.31	A16S
ATOM	7746	O3*	C	A	370	129.742	60.754	29.829	1.00	62.31	A16S
ATOM	7747	P	G	A	371	128.771	59.670	29.127	1.00	64.96	A16S
ATOM	7748	O1P	G	A	371	128.181	58.804	30.177	1.00	77.32	A16S
ATOM	7749	O2P	G	A	371	129.436	59.053	27.932	1.00	77.32	A16S
ATOM	7750	O5*	G	A	371	127.578	60.565	28.611	1.00	64.96	A16S
ATOM	7751	C5*	G	A	371	127.013	61.524	29.488	1.00	64.96	A16S
ATOM	7752	C4*	G	A	371	126.077	62.405	28.739	1.00	64.96	A16S
ATOM	7753	O4*	G	A	371	126.781	63.439	28.011	1.00	64.96	A16S
ATOM	7754	C1*	G	A	371	126.061	63.742	26.832	1.00	64.96	A16S
ATOM	7755	N9	G	A	371	126.907	63.488	25.673	1.00	77.32	A16S
ATOM	7756	C4	G	A	371	126.648	63.895	24.385	1.00	77.32	A16S
ATOM	7757	N3	G	A	371	125.570	64.599	23.975	1.00	77.32	A16S
ATOM	7758	C2	G	A	371	125.605	64.850	22.680	1.00	77.32	A16S
ATOM	7759	N2	G	A	371	124.604	65.527	22.105	1.00	77.32	A16S
ATOM	7760	N1	G	A	371	126.620	64.450	21.853	1.00	77.32	A16S
ATOM	7761	C6	G	A	371	127.737	63.723	22.252	1.00	77.32	A16S
ATOM	7762	O6	G	A	371	128.595	63.410	21.424	1.00	77.32	A16S
ATOM	7763	C5	G	A	371	127.709	63.440	23.640	1.00	77.32	A16S
ATOM	7764	N7	G	A	371	128.616	62.754	24.439	1.00	77.32	A16S
ATOM	7765	C8	G	A	371	128.098	62.806	25.635	1.00	77.32	A16S
ATOM	7766	C2*	G	A	371	124.826	62.849	26.816	1.00	64.96	A16S
ATOM	7767	O2*	G	A	371	123.811	63.589	27.451	1.00	64.96	A16S
ATOM	7768	C3*	G	A	371	125.288	61.687	27.677	1.00	64.96	A16S
ATOM	7769	O3*	G	A	371	124.272	60.907	28.265	1.00	64.96	A16S
ATOM	7770	P	C	A	372	123.638	59.696	27.432	1.00	70.00	A16S



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ATOM	7771	O1P	C	A	372	122.790	58.902	28.354	1.00	75.18	A16S
ATOM	7772	O2P	C	A	372	124.724	59.034	26.660	1.00	75.18	A16S
ATOM	7773	O5*	C	A	372	122.675	60.472	26.447	1.00	70.00	A16S
ATOM	7774	C5*	C	A	372	122.044	61.672	26.916	1.00	70.00	A16S
ATOM	7775	C4*	C	A	372	121.284	62.327	25.816	1.00	70.00	A16S
ATOM	7776	O4*	C	A	372	122.135	62.702	24.731	1.00	70.00	A16S
ATOM	7777	C1*	C	A	372	121.335	62.843	23.585	1.00	70.00	A16S
ATOM	7778	N1	C	A	372	122.229	62.704	22.420	1.00	75.18	A16S
ATOM	7779	C6	C	A	372	123.421	62.045	22.533	1.00	75.18	A16S
ATOM	7780	C2	C	A	372	121.847	63.255	21.199	1.00	75.18	A16S
ATOM	7781	O2	C	A	372	120.769	63.871	21.122	1.00	75.18	A16S
ATOM	7782	N3	C	A	372	122.662	63.108	20.130	1.00	75.18	A16S
ATOM	7783	C4	C	A	372	123.811	62.448	20.250	1.00	75.18	A16S
ATOM	7784	N4	C	A	372	124.562	62.303	19.166	1.00	75.18	A16S
ATOM	7785	C5	C	A	372	124.235	61.899	21.484	1.00	75.18	A16S
ATOM	7786	C2*	C	A	372	120.225	61.783	23.714	1.00	70.00	A16S
ATOM	7787	O2*	C	A	372	118.971	62.034	23.086	1.00	70.00	A16S
ATOM	7788	C3*	C	A	372	120.272	61.395	25.211	1.00	70.00	A16S
ATOM	7789	O3*	C	A	372	119.145	61.494	26.102	1.00	70.00	A16S
ATOM	7790	P	A	A	373	118.302	62.856	26.214	1.00	53.13	A16S
ATOM	7791	O1P	A	A	373	116.892	62.404	26.427	1.00	97.40	A16S
ATOM	7792	O2P	A	A	373	118.628	63.741	25.056	1.00	97.40	A16S
ATOM	7793	O5*	A	A	373	118.793	63.602	27.538	1.00	53.13	A16S
ATOM	7794	C5*	A	A	373	117.803	64.173	28.451	1.00	53.13	A16S
ATOM	7795	C4*	A	A	373	117.835	65.706	28.469	1.00	53.13	A16S
ATOM	7796	O4*	A	A	373	119.091	66.158	29.021	1.00	53.13	A16S
ATOM	7797	C1*	A	A	373	119.458	67.383	28.426	1.00	53.13	A16S
ATOM	7798	N9	A	A	373	120.704	67.160	27.704	1.00	97.40	A16S
ATOM	7799	C4	A	A	373	121.383	68.077	26.945	1.00	97.40	A16S
ATOM	7800	N3	A	A	373	121.042	69.354	26.714	1.00	97.40	A16S
ATOM	7801	C2	A	A	373	121.940	69.939	25.932	1.00	97.40	A16S
ATOM	7802	N1	A	A	373	123.055	69.432	25.397	1.00	97.40	A16S
ATOM	7803	C6	A	A	373	123.364	68.144	25.651	1.00	97.40	A16S
ATOM	7804	N6	A	A	373	124.475	67.633	25.120	1.00	97.40	A16S
ATOM	7805	C5	A	A	373	122.494	67.415	26.464	1.00	97.40	A16S
ATOM	7806	N7	A	A	373	122.517	66.104	26.912	1.00	97.40	A16S
ATOM	7807	C8	A	A	373	121.438	66.003	27.640	1.00	97.40	A16S
ATOM	7808	C2*	A	A	373	118.315	67.830	27.516	1.00	53.13	A16S
ATOM	7809	O2*	A	A	373	117.484	68.688	28.263	1.00	53.13	A16S
ATOM	7810	C3*	A	A	373	117.638	66.506	27.181	1.00	53.13	A16S
ATOM	7811	O3*	A	A	373	116.251	66.738	26.898	1.00	53.13	A16S
ATOM	7812	P	A	A	374	115.780	67.087	25.390	1.00	58.71	A16S
ATOM	7813	O1P	A	A	374	114.298	67.287	25.367	1.00	82.44	A16S
ATOM	7814	O2P	A	A	374	116.389	66.085	24.483	1.00	82.44	A16S
ATOM	7815	O5*	A	A	374	116.498	68.474	25.062	1.00	58.71	A16S
ATOM	7816	C5*	A	A	374	116.114	69.701	25.723	1.00	58.71	A16S
ATOM	7817	C4*	A	A	374	116.726	70.890	25.013	1.00	58.71	A16S
ATOM	7818	O4*	A	A	374	118.167	70.864	25.169	1.00	58.71	A16S
ATOM	7819	C1*	A	A	374	118.782	71.275	23.964	1.00	58.71	A16S
ATOM	7820	N9	A	A	374	119.591	70.160	23.462	1.00	82.44	A16S
ATOM	7821	C4	A	A	374	120.403	70.167	22.350	1.00	82.44	A16S
ATOM	7822	N3	A	A	374	120.597	71.176	21.481	1.00	82.44	A16S
ATOM	7823	C2	A	A	374	121.457	70.822	20.535	1.00	82.44	A16S
ATOM	7824	N1	A	A	374	122.101	69.664	20.369	1.00	82.44	A16S
ATOM	7825	C6	A	A	374	121.888	68.674	21.258	1.00	82.44	A16S
ATOM	7826	N6	A	A	374	122.535	67.521	21.095	1.00	82.44	A16S
ATOM	7827	C5	A	A	374	120.993	68.920	22.307	1.00	82.44	A16S
ATOM	7828	N7	A	A	374	120.550	68.133	23.358	1.00	82.44	A16S
ATOM	7829	C8	A	A	374	119.718	68.907	24.005	1.00	82.44	A16S
ATOM	7830	C2*	A	A	374	117.680	71.703	22.996	1.00	58.71	A16S
ATOM	7831	O2*	A	A	374	117.469	73.097	23.087	1.00	58.71	A16S
ATOM	7832	C3*	A	A	374	116.498	70.908	23.513	1.00	58.71	A16S
ATOM	7833	O3*	A	A	374	115.282	71.534	23.183	1.00	58.71	A16S
ATOM	7834	P	U	A	375	114.524	71.105	21.845	1.00	54.43	A16S
ATOM	7835	O1P	U	A	375	113.343	71.990	21.745	1.00	70.37	A16S
ATOM	7836	O2P	U	A	375	114.342	69.637	21.863	1.00	70.37	A16S
ATOM	7837	O5*	U	A	375	115.563	71.474	20.691	1.00	54.43	A16S
ATOM	7838	C5*	U	A	375	115.891	72.865	20.389	1.00	54.43	A16S
ATOM	7839	C4*	U	A	375	116.667	72.976	19.083	1.00	54.43	A16S
ATOM	7840	O4*	U	A	375	118.062	72.623	19.282	1.00	54.43	A16S
ATOM	7841	C1*	U	A	375	118.536	71.891	18.160	1.00	54.43	A16S
ATOM	7842	N1	U	A	375	118.861	70.522	18.608	1.00	70.37	A16S
ATOM	7843	C6	U	A	375	118.247	69.972	19.715	1.00	70.37	A16S
ATOM	7844	C2	U	A	375	119.804	69.794	17.890	1.00	70.37	A16S
ATOM	7845	O2	U	A	375	120.361	70.217	16.894	1.00	70.37	A16S
ATOM	7846	N3	U	A	375	120.063	68.540	18.381	1.00	70.37	A16S
ATOM	7847	C4	U	A	375	119.487	67.942	19.483	1.00	70.37	A16S



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ATOM	7848	O4	U	A	375	119.839	66.807	19.809	1.00	70.37	A16S
ATOM	7849	C5	U	A	375	118.520	68.745	20.161	1.00	70.37	A16S
ATOM	7850	C2*	U	A	375	117.434	71.922	17.098	1.00	54.43	A16S
ATOM	7851	O2*	U	A	375	117.591	73.045	16.252	1.00	54.43	A16S
ATOM	7852	C3*	U	A	375	116.193	72.074	17.956	1.00	54.43	A16S
ATOM	7853	O3*	U	A	375	115.121	72.619	17.215	1.00	54.43	A16S
ATOM	7854	P	G	A	376	114.162	71.624	16.401	1.00	52.68	A16S
ATOM	7855	O1P	G	A	376	113.238	72.440	15.554	1.00	75.32	A16S
ATOM	7856	O2P	G	A	376	113.598	70.651	17.385	1.00	75.32	A16S
ATOM	7857	O5*	G	A	376	115.171	70.850	15.436	1.00	52.68	A16S
ATOM	7858	C5*	G	A	376	115.767	71.521	14.310	1.00	52.68	A16S
ATOM	7859	C4*	G	A	376	116.642	70.578	13.515	1.00	52.68	A16S
ATOM	7860	O4*	G	A	376	117.844	70.244	14.261	1.00	52.68	A16S
ATOM	7861	C1*	G	A	376	118.260	68.930	13.922	1.00	52.68	A16S
ATOM	7862	N9	G	A	376	118.214	68.105	15.126	1.00	75.32	A16S
ATOM	7863	C4	G	A	376	118.786	66.863	15.315	1.00	75.32	A16S
ATOM	7864	N3	G	A	376	119.566	66.202	14.436	1.00	75.32	A16S
ATOM	7865	C2	G	A	376	119.938	65.016	14.900	1.00	75.32	A16S
ATOM	7866	N2	G	A	376	120.740	64.231	14.167	1.00	75.32	A16S
ATOM	7867	N1	G	A	376	119.556	64.515	16.119	1.00	75.32	A16S
ATOM	7868	C6	G	A	376	118.744	65.173	17.035	1.00	75.32	A16S
ATOM	7869	O6	G	A	376	118.433	64.619	18.101	1.00	75.32	A16S
ATOM	7870	C5	G	A	376	118.364	66.454	16.562	1.00	75.32	A16S
ATOM	7871	N7	G	A	376	117.589	67.432	17.163	1.00	75.32	A16S
ATOM	7872	C8	G	A	376	117.536	68.392	16.282	1.00	75.32	A16S
ATOM	7873	C2*	G	A	376	117.286	68.410	12.858	1.00	52.68	A16S
ATOM	7874	O2*	G	A	376	117.782	68.733	11.579	1.00	52.68	A16S
ATOM	7875	C3*	G	A	376	116.043	69.236	13.136	1.00	52.68	A16S
ATOM	7876	O3*	G	A	376	115.210	69.324	11.989	1.00	52.68	A16S
ATOM	7877	P	G	A	377	114.170	68.132	11.666	1.00	42.92	A16S
ATOM	7878	O1P	G	A	377	113.403	68.481	10.437	1.00	75.22	A16S
ATOM	7879	O2P	G	A	377	113.439	67.792	12.913	1.00	75.22	A16S
ATOM	7880	O5*	G	A	377	115.126	66.920	11.298	1.00	42.92	A16S
ATOM	7881	C5*	G	A	377	115.846	66.928	10.065	1.00	42.92	A16S
ATOM	7882	C4*	G	A	377	116.536	65.617	9.861	1.00	42.92	A16S
ATOM	7883	O4*	G	A	377	117.471	65.411	10.940	1.00	42.92	A16S
ATOM	7884	C1*	G	A	377	117.523	64.034	11.261	1.00	42.92	A16S
ATOM	7885	N9	G	A	377	117.152	63.879	12.662	1.00	75.22	A16S
ATOM	7886	C4	G	A	377	117.357	62.769	13.440	1.00	75.22	A16S
ATOM	7887	N3	G	A	377	117.961	61.634	13.050	1.00	75.22	A16S
ATOM	7888	C2	G	A	377	118.003	60.747	14.021	1.00	75.22	A16S
ATOM	7889	N2	G	A	377	118.585	59.574	13.816	1.00	75.22	A16S
ATOM	7890	N1	G	A	377	117.481	60.945	15.273	1.00	75.22	A16S
ATOM	7891	C6	G	A	377	116.849	62.103	15.697	1.00	75.22	A16S
ATOM	7892	O6	G	A	377	116.402	62.179	16.849	1.00	75.22	A16S
ATOM	7893	C5	G	A	377	116.812	63.077	14.666	1.00	75.22	A16S
ATOM	7894	N7	G	A	377	116.294	64.363	14.665	1.00	75.22	A16S
ATOM	7895	C8	G	A	377	116.519	64.800	13.457	1.00	75.22	A16S
ATOM	7896	C2*	G	A	377	116.566	63.290	10.324	1.00	42.92	A16S
ATOM	7897	O2*	G	A	377	117.281	62.732	9.237	1.00	42.92	A16S
ATOM	7898	C3*	G	A	377	115.629	64.405	9.894	1.00	42.92	A16S
ATOM	7899	O3*	G	A	377	115.077	64.156	8.618	1.00	42.92	A16S
ATOM	7900	P	G	A	378	113.731	63.307	8.497	1.00	49.20	A16S
ATOM	7901	O1P	G	A	378	113.313	63.374	7.073	1.00	63.55	A16S
ATOM	7902	O2P	G	A	378	112.788	63.747	9.556	1.00	63.55	A16S
ATOM	7903	O5*	G	A	378	114.220	61.828	8.809	1.00	49.20	A16S
ATOM	7904	C5*	G	A	378	114.984	61.102	7.826	1.00	49.20	A16S
ATOM	7905	C4*	G	A	378	115.076	59.640	8.195	1.00	49.20	A16S
ATOM	7906	O4*	G	A	378	115.954	59.479	9.336	1.00	49.20	A16S
ATOM	7907	C1*	G	A	378	115.451	58.450	10.177	1.00	49.20	A16S
ATOM	7908	N9	G	A	378	115.139	59.041	11.470	1.00	63.55	A16S
ATOM	7909	C4	G	A	378	115.209	58.419	12.689	1.00	63.55	A16S
ATOM	7910	N3	G	A	378	115.590	57.143	12.911	1.00	63.55	A16S
ATOM	7911	C2	G	A	378	115.580	56.843	14.198	1.00	63.55	A16S
ATOM	7912	N2	G	A	378	115.970	55.632	14.611	1.00	63.55	A16S
ATOM	7913	N1	G	A	378	115.201	57.715	15.180	1.00	63.55	A16S
ATOM	7914	C6	G	A	378	114.804	59.030	14.970	1.00	63.55	A16S
ATOM	7915	O6	G	A	378	114.492	59.738	15.926	1.00	63.55	A16S
ATOM	7916	C5	G	A	378	114.828	59.371	13.604	1.00	63.55	A16S
ATOM	7917	N7	G	A	378	114.522	60.568	12.974	1.00	63.55	A16S
ATOM	7918	C8	G	A	378	114.718	60.325	11.710	1.00	63.55	A16S
ATOM	7919	C2*	G	A	378	114.216	57.848	9.508	1.00	49.20	A16S
ATOM	7920	O2*	G	A	378	114.594	56.732	8.741	1.00	49.20	A16S
ATOM	7921	C3*	G	A	378	113.766	58.992	8.616	1.00	49.20	A16S
ATOM	7922	O3*	G	A	378	113.026	58.516	7.518	1.00	49.20	A16S
ATOM	7923	P	C	A	379	111.442	58.388	7.656	1.00	57.89	A16S
ATOM	7924	O1P	C	A	379	110.924	58.052	6.298	1.00	71.61	A16S



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ATOM	7925	O2P	C	A	379	110.928	59.592	8.370	1.00	71.61	A16S
ATOM	7926	O5*	C	A	379	111.250	57.145	8.628	1.00	57.89	A16S
ATOM	7927	C5*	C	A	379	111.703	55.837	8.240	1.00	57.89	A16S
ATOM	7928	C4*	C	A	379	111.534	54.860	9.381	1.00	57.89	A16S
ATOM	7929	O4*	C	A	379	112.438	55.190	10.474	1.00	57.89	A16S
ATOM	7930	C1*	C	A	379	111.834	54.844	11.704	1.00	57.89	A16S
ATOM	7931	N1	C	A	379	111.792	56.039	12.557	1.00	71.61	A16S
ATOM	7932	C6	C	A	379	111.596	57.276	12.015	1.00	71.61	A16S
ATOM	7933	C2	C	A	379	111.950	55.893	13.941	1.00	71.61	A16S
ATOM	7934	O2	C	A	379	112.128	54.762	14.414	1.00	71.61	A16S
ATOM	7935	N3	C	A	379	111.902	56.985	14.728	1.00	71.61	A16S
ATOM	7936	C4	C	A	379	111.705	58.185	14.186	1.00	71.61	A16S
ATOM	7937	N4	C	A	379	111.662	59.233	14.998	1.00	71.61	A16S
ATOM	7938	C5	C	A	379	111.544	58.363	12.786	1.00	71.61	A16S
ATOM	7939	C2*	C	A	379	110.451	54.252	11.407	1.00	57.89	A16S
ATOM	7940	O2*	C	A	379	110.549	52.841	11.405	1.00	57.89	A16S
ATOM	7941	C3*	C	A	379	110.155	54.810	10.018	1.00	57.89	A16S
ATOM	7942	O3*	C	A	379	109.274	53.973	9.267	1.00	57.89	A16S
ATOM	7943	P	G	A	380	107.706	54.330	9.196	1.00	63.74	A16S
ATOM	7944	O1P	G	A	380	107.045	53.316	8.321	1.00	86.23	A16S
ATOM	7945	O2P	G	A	380	107.583	55.763	8.869	1.00	86.23	A16S
ATOM	7946	O5*	G	A	380	107.222	54.155	10.705	1.00	63.74	A16S
ATOM	7947	C5*	G	A	380	107.421	52.905	11.386	1.00	63.74	A16S
ATOM	7948	C4*	G	A	380	107.106	53.027	12.859	1.00	63.74	A16S
ATOM	7949	O4*	G	A	380	108.129	53.785	13.555	1.00	63.74	A16S
ATOM	7950	C1*	G	A	380	107.558	54.392	14.701	1.00	63.74	A16S
ATOM	7951	N9	G	A	380	107.844	55.825	14.694	1.00	86.23	A16S
ATOM	7952	C4	G	A	380	107.783	56.655	15.786	1.00	86.23	A16S
ATOM	7953	N3	G	A	380	107.504	56.277	17.046	1.00	86.23	A16S
ATOM	7954	C2	G	A	380	107.488	57.302	17.878	1.00	86.23	A16S
ATOM	7955	N2	G	A	380	107.250	57.103	19.174	1.00	86.23	A16S
ATOM	7956	N1	G	A	380	107.710	58.600	17.508	1.00	86.23	A16S
ATOM	7957	C6	G	A	380	107.999	59.023	16.219	1.00	86.23	A16S
ATOM	7958	O6	G	A	380	108.176	60.234	15.999	1.00	86.23	A16S
ATOM	7959	C5	G	A	380	108.039	57.920	15.304	1.00	86.23	A16S
ATOM	7960	N7	G	A	380	108.299	57.882	13.939	1.00	86.23	A16S
ATOM	7961	C8	G	A	380	108.180	56.620	13.623	1.00	86.23	A16S
ATOM	7962	C2*	G	A	380	106.053	54.099	14.683	1.00	63.74	A16S
ATOM	7963	O2*	G	A	380	105.762	53.016	15.539	1.00	63.74	A16S
ATOM	7964	C3*	G	A	380	105.818	53.729	13.226	1.00	63.74	A16S
ATOM	7965	O3*	G	A	380	104.685	52.898	13.054	1.00	63.74	A16S
ATOM	7966	P	C	A	381	103.407	53.485	12.282	1.00	59.72	A16S
ATOM	7967	O1P	C	A	381	103.945	54.125	11.061	1.00	91.76	A16S
ATOM	7968	O2P	C	A	381	102.364	52.426	12.148	1.00	91.76	A16S
ATOM	7969	O5*	C	A	381	102.879	54.632	13.260	1.00	59.72	A16S
ATOM	7970	C5*	C	A	381	101.753	55.461	12.900	1.00	59.72	A16S
ATOM	7971	C4*	C	A	381	101.047	55.987	14.141	1.00	59.72	A16S
ATOM	7972	O4*	C	A	381	100.199	54.965	14.746	1.00	59.72	A16S
ATOM	7973	C1*	C	A	381	100.152	55.156	16.158	1.00	59.72	A16S
ATOM	7974	N1	C	A	381	100.665	53.946	16.844	1.00	91.76	A16S
ATOM	7975	C6	C	A	381	101.195	52.896	16.143	1.00	91.76	A16S
ATOM	7976	C2	C	A	381	100.615	53.900	18.248	1.00	91.76	A16S
ATOM	7977	O2	C	A	381	100.122	54.857	18.862	1.00	91.76	A16S
ATOM	7978	N3	C	A	381	101.109	52.817	18.897	1.00	91.76	A16S
ATOM	7979	C4	C	A	381	101.642	51.810	18.204	1.00	91.76	A16S
ATOM	7980	N4	C	A	381	102.139	50.776	18.888	1.00	91.76	A16S
ATOM	7981	C5	C	A	381	101.693	51.820	16.776	1.00	91.76	A16S
ATOM	7982	C2*	C	A	381	101.002	56.387	16.486	1.00	59.72	A16S
ATOM	7983	O2*	C	A	381	100.184	57.533	16.582	1.00	59.72	A16S
ATOM	7984	C3*	C	A	381	101.931	56.466	15.283	1.00	59.72	A16S
ATOM	7985	O3*	C	A	381	102.378	57.792	15.115	1.00	59.72	A16S
ATOM	7986	P	A	A	382	103.695	58.276	15.889	1.00	65.79	A16S
ATOM	7987	O1P	A	A	382	103.737	59.759	15.811	1.00	90.36	A16S
ATOM	7988	O2P	A	A	382	104.840	57.483	15.367	1.00	90.36	A16S
ATOM	7989	O5*	A	A	382	103.449	57.882	17.420	1.00	65.79	A16S
ATOM	7990	C5*	A	A	382	102.685	58.741	18.307	1.00	65.79	A16S
ATOM	7991	C4*	A	A	382	102.639	58.162	19.711	1.00	65.79	A16S
ATOM	7992	O4*	A	A	382	102.157	56.798	19.624	1.00	65.79	A16S
ATOM	7993	C1*	A	A	382	102.874	55.977	20.526	1.00	65.79	A16S
ATOM	7994	N9	A	A	382	103.578	54.945	19.748	1.00	90.36	A16S
ATOM	7995	C4	A	A	382	104.087	53.755	20.211	1.00	90.36	A16S
ATOM	7996	N3	A	A	382	104.091	53.303	21.473	1.00	90.36	A16S
ATOM	7997	C2	A	A	382	104.635	52.091	21.535	1.00	90.36	A16S
ATOM	7998	N1	A	A	382	105.138	51.337	20.556	1.00	90.36	A16S
ATOM	7999	C6	A	A	382	105.115	51.820	19.300	1.00	90.36	A16S
ATOM	8000	N6	A	A	382	105.592	51.059	18.321	1.00	90.36	A16S
ATOM	8001	C5	A	A	382	104.575	53.096	19.100	1.00	90.36	A16S



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ATOM	8002	N7	A	A	382	104.413	53.866	17.962	1.00	90.36	A16S
ATOM	8003	C8	A	A	382	103.828	54.952	18.397	1.00	90.36	A16S
ATOM	8004	C2*	A	A	382	103.762	56.887	21.379	1.00	65.79	A16S
ATOM	8005	O2*	A	A	382	103.057	57.240	22.552	1.00	65.79	A16S
ATOM	8006	C3*	A	A	382	103.965	58.085	20.461	1.00	65.79	A16S
ATOM	8007	O3*	A	A	382	104.180	59.274	21.226	1.00	65.79	A16S
ATOM	8008	P	A	A	383	105.616	59.551	21.909	1.00	61.97	A16S
ATOM	8009	O1P	A	A	383	105.485	60.755	22.762	1.00	97.85	A16S
ATOM	8010	O2P	A	A	383	106.675	59.516	20.868	1.00	97.85	A16S
ATOM	8011	O5*	A	A	383	105.829	58.320	22.895	1.00	61.97	A16S
ATOM	8012	C5*	A	A	383	105.140	58.274	24.152	1.00	61.97	A16S
ATOM	8013	C4*	A	A	383	105.489	57.019	24.891	1.00	61.97	A16S
ATOM	8014	O4*	A	A	383	105.034	55.879	24.127	1.00	61.97	A16S
ATOM	8015	C1*	A	A	383	105.974	54.824	24.250	1.00	61.97	A16S
ATOM	8016	N9	A	A	383	106.528	54.540	22.928	1.00	97.85	A16S
ATOM	8017	C4	A	A	383	107.132	53.372	22.540	1.00	97.85	A16S
ATOM	8018	N3	A	A	383	107.338	52.277	23.287	1.00	97.85	A16S
ATOM	8019	C2	A	A	383	107.924	51.327	22.566	1.00	97.85	A16S
ATOM	8020	N1	A	A	383	108.298	51.348	21.278	1.00	97.85	A16S
ATOM	8021	C6	A	A	383	108.078	52.470	20.560	1.00	97.85	A16S
ATOM	8022	N6	A	A	383	108.447	52.495	19.277	1.00	97.85	A16S
ATOM	8023	C5	A	A	383	107.468	53.547	21.211	1.00	97.85	A16S
ATOM	8024	N7	A	A	383	107.102	54.808	20.775	1.00	97.85	A16S
ATOM	8025	C8	A	A	383	106.556	55.358	21.828	1.00	97.85	A16S
ATOM	8026	C2*	A	A	383	107.063	55.283	25.218	1.00	61.97	A16S
ATOM	8027	O2*	A	A	383	106.773	54.855	26.535	1.00	61.97	A16S
ATOM	8028	C3*	A	A	383	106.976	56.790	25.079	1.00	61.97	A16S
ATOM	8029	O3*	A	A	383	107.461	57.409	26.247	1.00	61.97	A16S
ATOM	8030	P	G	A	384	108.887	58.138	26.222	1.00	77.36	A16S
ATOM	8031	O1P	G	A	384	109.407	58.160	27.622	1.00	84.91	A16S
ATOM	8032	O2P	G	A	384	108.670	59.419	25.489	1.00	84.91	A16S
ATOM	8033	O5*	G	A	384	109.824	57.190	25.333	1.00	77.36	A16S
ATOM	8034	C5*	G	A	384	110.195	55.864	25.786	1.00	77.36	A16S
ATOM	8035	C4*	G	A	384	110.691	54.997	24.632	1.00	77.36	A16S
ATOM	8036	O4*	G	A	384	109.820	55.141	23.476	1.00	77.36	A16S
ATOM	8037	C1*	G	A	384	110.562	54.912	22.295	1.00	77.36	A16S
ATOM	8038	N9	G	A	384	110.468	56.084	21.435	1.00	84.91	A16S
ATOM	8039	C4	G	A	384	110.645	56.102	20.072	1.00	84.91	A16S
ATOM	8040	N3	G	A	384	110.927	55.036	19.293	1.00	84.91	A16S
ATOM	8041	C2	G	A	384	111.026	55.370	18.017	1.00	84.91	A16S
ATOM	8042	N2	G	A	384	111.290	54.435	17.100	1.00	84.91	A16S
ATOM	8043	N1	G	A	384	110.871	56.645	17.545	1.00	84.91	A16S
ATOM	8044	C6	G	A	384	110.587	57.757	18.327	1.00	84.91	A16S
ATOM	8045	O6	G	A	384	110.469	58.866	17.797	1.00	84.91	A16S
ATOM	8046	C5	G	A	384	110.470	57.415	19.699	1.00	84.91	A16S
ATOM	8047	N7	G	A	384	110.191	58.208	20.804	1.00	84.91	A16S
ATOM	8048	C8	G	A	384	110.199	57.377	21.809	1.00	84.91	A16S
ATOM	8049	C2*	G	A	384	112.008	54.628	22.692	1.00	77.36	A16S
ATOM	8050	O2*	G	A	384	112.206	53.233	22.707	1.00	77.36	A16S
ATOM	8051	C3*	G	A	384	112.087	55.244	24.082	1.00	77.36	A16S
ATOM	8052	O3*	G	A	384	113.086	54.579	24.846	1.00	77.36	A16S
ATOM	8053	P	C	A	385	114.642	54.916	24.591	1.00	66.59	A16S
ATOM	8054	O1P	C	A	385	115.481	54.206	25.595	1.00	80.04	A16S
ATOM	8055	O2P	C	A	385	114.763	56.388	24.452	1.00	80.04	A16S
ATOM	8056	O5*	C	A	385	114.944	54.276	23.168	1.00	66.59	A16S
ATOM	8057	C5*	C	A	385	115.054	52.852	23.011	1.00	66.59	A16S
ATOM	8058	C4*	C	A	385	115.531	52.523	21.621	1.00	66.59	A16S
ATOM	8059	O4*	C	A	385	114.510	52.866	20.652	1.00	66.59	A16S
ATOM	8060	C1*	C	A	385	115.120	53.387	19.485	1.00	66.59	A16S
ATOM	8061	N1	C	A	385	114.663	54.771	19.295	1.00	80.04	A16S
ATOM	8062	C6	C	A	385	114.350	55.563	20.363	1.00	80.04	A16S
ATOM	8063	C2	C	A	385	114.563	55.267	17.996	1.00	80.04	A16S
ATOM	8064	O2	C	A	385	114.850	54.524	17.046	1.00	80.04	A16S
ATOM	8065	N3	C	A	385	114.160	56.540	17.805	1.00	80.04	A16S
ATOM	8066	C4	C	A	385	113.868	57.307	18.852	1.00	80.04	A16S
ATOM	8067	N4	C	A	385	113.495	58.560	18.618	1.00	80.04	A16S
ATOM	8068	C5	C	A	385	113.953	56.823	20.189	1.00	80.04	A16S
ATOM	8069	C2*	C	A	385	116.632	53.321	19.677	1.00	66.59	A16S
ATOM	8070	O2*	C	A	385	117.109	52.129	19.113	1.00	66.59	A16S
ATOM	8071	C3*	C	A	385	116.748	53.309	21.188	1.00	66.59	A16S
ATOM	8072	O3*	C	A	385	117.927	52.677	21.607	1.00	66.59	A16S
ATOM	8073	P	C	A	386	119.264	53.537	21.712	1.00	52.86	A16S
ATOM	8074	O1P	C	A	386	120.334	52.645	22.224	1.00	78.94	A16S
ATOM	8075	O2P	C	A	386	118.930	54.774	22.450	1.00	78.94	A16S
ATOM	8076	O5*	C	A	386	119.575	53.910	20.194	1.00	52.86	A16S
ATOM	8077	C5*	C	A	386	119.991	52.891	19.267	1.00	52.86	A16S
ATOM	8078	C4*	C	A	386	120.322	53.492	17.921	1.00	52.86	A16S



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ATOM	8079	O4*	C	A	386	119.110	53.875	17.229	1.00	52.86	A16S
ATOM	8080	C1*	C	A	386	119.341	55.062	16.499	1.00	52.86	A16S
ATOM	8081	N1	C	A	386	118.536	56.134	17.097	1.00	78.94	A16S
ATOM	8082	C6	C	A	386	118.175	56.092	18.416	1.00	78.94	A16S
ATOM	8083	C2	C	A	386	118.166	57.211	16.304	1.00	78.94	A16S
ATOM	8084	O2	C	A	386	118.488	57.208	15.119	1.00	78.94	A16S
ATOM	8085	N3	C	A	386	117.465	58.227	16.847	1.00	78.94	A16S
ATOM	8086	C4	C	A	386	117.123	58.184	18.135	1.00	78.94	A16S
ATOM	8087	N4	C	A	386	116.425	59.206	18.633	1.00	78.94	A16S
ATOM	8088	C5	C	A	386	117.478	57.087	18.971	1.00	78.94	A16S
ATOM	8089	C2*	C	A	386	120.827	55.394	16.620	1.00	52.86	A16S
ATOM	8090	O2*	C	A	386	121.500	54.793	15.540	1.00	52.86	A16S
ATOM	8091	C3*	C	A	386	121.178	54.743	17.945	1.00	52.86	A16S
ATOM	8092	O3*	C	A	386	122.549	54.422	18.023	1.00	52.86	A16S
ATOM	8093	P	U	A	387	123.536	55.389	18.830	1.00	59.49	A16S
ATOM	8094	O1P	U	A	387	124.910	54.795	18.799	1.00	93.32	A16S
ATOM	8095	O2P	U	A	387	122.897	55.679	20.133	1.00	93.32	A16S
ATOM	8096	O5*	U	A	387	123.510	56.733	17.972	1.00	59.49	A16S
ATOM	8097	C5*	U	A	387	123.822	56.706	16.569	1.00	59.49	A16S
ATOM	8098	C4*	U	A	387	123.588	58.056	15.931	1.00	59.49	A16S
ATOM	8099	O4*	U	A	387	122.171	58.371	15.851	1.00	59.49	A16S
ATOM	8100	C1*	U	A	387	122.001	59.780	15.850	1.00	59.49	A16S
ATOM	8101	N1	U	A	387	121.111	60.179	16.951	1.00	93.32	A16S
ATOM	8102	C6	U	A	387	121.056	59.475	18.131	1.00	93.32	A16S
ATOM	8103	C2	U	A	387	120.351	61.321	16.771	1.00	93.32	A16S
ATOM	8104	O2	U	A	387	120.329	61.940	15.720	1.00	93.32	A16S
ATOM	8105	N3	U	A	387	119.614	61.709	17.866	1.00	93.32	A16S
ATOM	8106	C4	U	A	387	119.546	61.074	19.095	1.00	93.32	A16S
ATOM	8107	O4	U	A	387	118.950	61.619	20.036	1.00	93.32	A16S
ATOM	8108	C5	U	A	387	120.318	59.870	19.178	1.00	93.32	A16S
ATOM	8109	C2*	U	A	387	123.384	60.409	16.010	1.00	59.49	A16S
ATOM	8110	O2*	U	A	387	123.836	60.792	14.728	1.00	59.49	A16S
ATOM	8111	C3*	U	A	387	124.186	59.262	16.619	1.00	59.49	A16S
ATOM	8112	O3*	U	A	387	125.570	59.370	16.361	1.00	59.49	A16S
ATOM	8113	P	G	A	388	126.600	59.400	17.595	1.00	65.25	A16S
ATOM	8114	O1P	G	A	388	126.976	57.996	17.882	1.00	71.48	A16S
ATOM	8115	O2P	G	A	388	126.038	60.245	18.682	1.00	71.48	A16S
ATOM	8116	O5*	G	A	388	127.869	60.147	17.002	1.00	65.25	A16S
ATOM	8117	C5*	G	A	388	127.832	61.562	16.813	1.00	65.25	A16S
ATOM	8118	C4*	G	A	388	129.210	62.084	16.531	1.00	65.25	A16S
ATOM	8119	O4*	G	A	388	130.133	61.555	17.518	1.00	65.25	A16S
ATOM	8120	C1*	G	A	388	131.167	60.841	16.880	1.00	65.25	A16S
ATOM	8121	N9	G	A	388	131.440	59.662	17.692	1.00	71.48	A16S
ATOM	8122	C4	G	A	388	132.536	59.436	18.500	1.00	71.48	A16S
ATOM	8123	N3	G	A	388	133.568	60.280	18.701	1.00	71.48	A16S
ATOM	8124	C2	G	A	388	134.465	59.774	19.543	1.00	71.48	A16S
ATOM	8125	N2	G	A	388	135.554	60.480	19.868	1.00	71.48	A16S
ATOM	8126	N1	G	A	388	134.358	58.536	20.132	1.00	71.48	A16S
ATOM	8127	C6	G	A	388	133.304	57.651	19.938	1.00	71.48	A16S
ATOM	8128	O6	G	A	388	133.300	56.557	20.517	1.00	71.48	A16S
ATOM	8129	C5	G	A	388	132.333	58.182	19.046	1.00	71.48	A16S
ATOM	8130	N7	G	A	388	131.138	57.639	18.602	1.00	71.48	A16S
ATOM	8131	C8	G	A	388	130.643	58.548	17.805	1.00	71.48	A16S
ATOM	8132	C2*	G	A	388	130.646	60.508	15.479	1.00	65.25	A16S
ATOM	8133	O2*	G	A	388	131.710	60.396	14.562	1.00	65.25	A16S
ATOM	8134	C3*	G	A	388	129.769	61.713	15.175	1.00	65.25	A16S
ATOM	8135	O3*	G	A	388	130.600	62.794	14.803	1.00	65.25	A16S
ATOM	8136	P	A	A	389	130.412	63.497	13.386	1.00	58.41	A16S
ATOM	8137	O1P	A	A	389	130.407	62.418	12.344	1.00	67.26	A16S
ATOM	8138	O2P	A	A	389	131.431	64.586	13.318	1.00	67.26	A16S
ATOM	8139	O5*	A	A	389	128.958	64.154	13.451	1.00	58.41	A16S
ATOM	8140	C5*	A	A	389	128.211	64.293	12.238	1.00	58.41	A16S
ATOM	8141	C4*	A	A	389	127.097	65.311	12.353	1.00	58.41	A16S
ATOM	8142	O4*	A	A	389	125.835	64.692	12.677	1.00	58.41	A16S
ATOM	8143	C1*	A	A	389	124.956	65.681	13.170	1.00	58.41	A16S
ATOM	8144	N9	A	A	389	124.509	65.289	14.506	1.00	67.26	A16S
ATOM	8145	C4	A	A	389	123.535	65.910	15.249	1.00	67.26	A16S
ATOM	8146	N3	A	A	389	122.801	66.977	14.905	1.00	67.26	A16S
ATOM	8147	C2	A	A	389	121.970	67.310	15.880	1.00	67.26	A16S
ATOM	8148	N1	A	A	389	121.793	66.740	17.064	1.00	67.26	A16S
ATOM	8149	C6	A	A	389	122.542	65.666	17.378	1.00	67.26	A16S
ATOM	8150	N6	A	A	389	122.360	65.088	18.562	1.00	67.26	A16S
ATOM	8151	C5	A	A	389	123.469	65.219	16.435	1.00	67.26	A16S
ATOM	8152	N7	A	A	389	124.379	64.176	16.445	1.00	67.26	A16S
ATOM	8153	C8	A	A	389	124.966	64.259	15.279	1.00	67.26	A16S
ATOM	8154	C2*	A	A	389	125.723	67.007	13.186	1.00	58.41	A16S
ATOM	8155	O2*	A	A	389	125.484	67.706	11.971	1.00	58.41	A16S



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ATOM	8156	C3*	A	A 389	127.171	66.546	13.231	1.00	58.41	A16S
ATOM	8157	O3*	A	A 389	127.932	67.583	12.641	1.00	58.41	A16S
ATOM	8158	P	C	A 390	128.427	68.830	13.535	1.00	55.93	A16S
ATOM	8159	O1P	C	A 390	128.420	70.033	12.650	1.00	59.68	A16S
ATOM	8160	O2P	C	A 390	129.687	68.422	14.222	1.00	59.68	A16S
ATOM	8161	O5*	C	A 390	127.315	69.025	14.660	1.00	55.93	A16S
ATOM	8162	C5*	C	A 390	126.167	69.866	14.452	1.00	55.93	A16S
ATOM	8163	C4*	C	A 390	125.273	69.824	15.670	1.00	55.93	A16S
ATOM	8164	O4*	C	A 390	125.017	68.434	16.003	1.00	55.93	A16S
ATOM	8165	C1*	C	A 390	124.979	68.275	17.403	1.00	55.93	A16S
ATOM	8166	N1	C	A 390	126.086	67.379	17.784	1.00	59.68	A16S
ATOM	8167	C6	C	A 390	127.279	67.431	17.127	1.00	59.68	A16S
ATOM	8168	C2	C	A 390	125.905	66.478	18.839	1.00	59.68	A16S
ATOM	8169	O2	C	A 390	124.807	66.427	19.411	1.00	59.68	A16S
ATOM	8170	N3	C	A 390	126.929	65.680	19.209	1.00	59.68	A16S
ATOM	8171	C4	C	A 390	128.088	65.744	18.560	1.00	59.68	A16S
ATOM	8172	N4	C	A 390	129.071	64.925	18.949	1.00	59.68	A16S
ATOM	8173	C5	C	A 390	128.296	66.643	17.478	1.00	59.68	A16S
ATOM	8174	C2*	C	A 390	125.092	69.671	18.022	1.00	55.93	A16S
ATOM	8175	O2*	C	A 390	123.796	70.215	18.168	1.00	55.93	A16S
ATOM	8176	C3*	C	A 390	125.846	70.426	16.945	1.00	55.93	A16S
ATOM	8177	O3*	C	A 390	125.530	71.804	17.001	1.00	55.93	A16S
ATOM	8178	P	G	A 391	126.425	72.808	17.876	1.00	59.66	A16S
ATOM	8179	O1P	G	A 391	125.914	74.158	17.556	1.00	71.37	A16S
ATOM	8180	O2P	G	A 391	127.861	72.506	17.693	1.00	71.37	A16S
ATOM	8181	O5*	G	A 391	126.019	72.508	19.381	1.00	59.66	A16S
ATOM	8182	C5*	G	A 391	124.712	72.861	19.857	1.00	59.66	A16S
ATOM	8183	C4*	G	A 391	124.527	72.378	21.266	1.00	59.66	A16S
ATOM	8184	O4*	G	A 391	124.533	70.925	21.296	1.00	59.66	A16S
ATOM	8185	C1*	G	A 391	125.209	70.476	22.458	1.00	59.66	A16S
ATOM	8186	N9	G	A 391	126.357	69.668	22.050	1.00	71.37	A16S
ATOM	8187	C4	G	A 391	127.041	68.775	22.838	1.00	71.37	A16S
ATOM	8188	N3	G	A 391	126.781	68.503	24.130	1.00	71.37	A16S
ATOM	8189	C2	G	A 391	127.598	67.592	24.622	1.00	71.37	A16S
ATOM	8190	N2	G	A 391	127.469	67.206	25.897	1.00	71.37	A16S
ATOM	8191	N1	G	A 391	128.598	66.993	23.902	1.00	71.37	A16S
ATOM	8192	C6	G	A 391	128.888	67.254	22.570	1.00	71.37	A16S
ATOM	8193	O6	G	A 391	129.815	66.652	22.015	1.00	71.37	A16S
ATOM	8194	C5	G	A 391	128.013	68.238	22.027	1.00	71.37	A16S
ATOM	8195	N7	G	A 391	127.953	68.791	20.756	1.00	71.37	A16S
ATOM	8196	C8	G	A 391	126.960	69.634	20.817	1.00	71.37	A16S
ATOM	8197	C2*	G	A 391	125.608	71.710	23.269	1.00	59.66	A16S
ATOM	8198	O2*	G	A 391	124.608	71.995	24.227	1.00	59.66	A16S
ATOM	8199	C3*	G	A 391	125.658	72.777	22.189	1.00	59.66	A16S
ATOM	8200	O3*	G	A 391	125.481	74.072	22.707	1.00	59.66	A16S
ATOM	8201	P	G	A 392	126.768	74.893	23.163	1.00	55.90	A16S
ATOM	8202	O1P	G	A 392	126.364	76.264	23.594	1.00	73.23	A16S
ATOM	8203	O2P	G	A 392	127.770	74.714	22.078	1.00	73.23	A16S
ATOM	8204	O5*	G	A 392	127.284	74.083	24.421	1.00	55.90	A16S
ATOM	8205	C5*	G	A 392	128.675	73.926	24.668	1.00	55.90	A16S
ATOM	8206	C4*	G	A 392	128.878	72.809	25.646	1.00	55.90	A16S
ATOM	8207	O4*	G	A 392	128.562	71.532	25.026	1.00	55.90	A16S
ATOM	8208	C1*	G	A 392	129.401	70.525	25.576	1.00	55.90	A16S
ATOM	8209	N9	G	A 392	130.215	69.938	24.513	1.00	73.23	A16S
ATOM	8210	C4	G	A 392	131.131	68.928	24.681	1.00	73.23	A16S
ATOM	8211	N3	G	A 392	131.403	68.294	25.839	1.00	73.23	A16S
ATOM	8212	C2	G	A 392	132.355	67.394	25.697	1.00	73.23	A16S
ATOM	8213	N2	G	A 392	132.748	66.672	26.752	1.00	73.23	A16S
ATOM	8214	N1	G	A 392	132.988	67.134	24.515	1.00	73.23	A16S
ATOM	8215	C6	G	A 392	132.722	67.769	23.311	1.00	73.23	A16S
ATOM	8216	O6	G	A 392	133.351	67.452	22.307	1.00	73.23	A16S
ATOM	8217	C5	G	A 392	131.703	68.743	23.447	1.00	73.23	A16S
ATOM	8218	N7	G	A 392	131.143	69.600	22.511	1.00	73.23	A16S
ATOM	8219	C8	G	A 392	130.261	70.284	23.187	1.00	73.23	A16S
ATOM	8220	C2*	G	A 392	130.299	71.198	26.618	1.00	55.90	A16S
ATOM	8221	O2*	G	A 392	129.733	71.068	27.904	1.00	55.90	A16S
ATOM	8222	C3*	G	A 392	130.292	72.635	26.140	1.00	55.90	A16S
ATOM	8223	O3*	G	A 392	130.565	73.539	27.172	1.00	55.90	A16S
ATOM	8224	P	A	A 393	131.951	74.323	27.152	1.00	54.08	A16S
ATOM	8225	O1P	A	A 393	131.845	75.547	28.000	1.00	82.02	A16S
ATOM	8226	O2P	A	A 393	132.362	74.444	25.735	1.00	82.02	A16S
ATOM	8227	O5*	A	A 393	132.960	73.306	27.832	1.00	54.08	A16S
ATOM	8228	C5*	A	A 393	132.845	72.993	29.212	1.00	54.08	A16S
ATOM	8229	C4*	A	A 393	133.600	71.738	29.508	1.00	54.08	A16S
ATOM	8230	O4*	A	A 393	133.076	70.695	28.660	1.00	54.08	A16S
ATOM	8231	C1*	A	A 393	134.117	69.812	28.292	1.00	54.08	A16S
ATOM	8232	N9	A	A 393	134.287	69.873	26.844	1.00	82.02	A16S



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ATOM	8233	C4	A	A	393	135.215	69.160	26.133	1.00	82.02	A16S
ATOM	8234	N3	A	A	393	136.106	68.284	26.619	1.00	82.02	A16S
ATOM	8235	C2	A	A	393	136.845	67.786	25.640	1.00	82.02	A16S
ATOM	8236	N1	A	A	393	136.805	68.052	24.331	1.00	82.02	A16S
ATOM	8237	C6	A	A	393	135.903	68.945	23.882	1.00	82.02	A16S
ATOM	8238	N6	A	A	393	135.875	69.221	22.579	1.00	82.02	A16S
ATOM	8239	C5	A	A	393	135.050	69.533	24.819	1.00	82.02	A16S
ATOM	8240	N7	A	A	393	134.027	70.460	24.698	1.00	82.02	A16S
ATOM	8241	C8	A	A	393	133.608	70.627	25.925	1.00	82.02	A16S
ATOM	8242	C2*	A	A	393	135.376	70.289	28.997	1.00	54.08	A16S
ATOM	8243	O2*	A	A	393	135.467	69.648	30.249	1.00	54.08	A16S
ATOM	8244	C3*	A	A	393	135.074	71.759	29.175	1.00	54.08	A16S
ATOM	8245	O3*	A	A	393	135.852	72.289	30.212	1.00	54.08	A16S
ATOM	8246	P	G	A	394	137.354	72.761	29.895	1.00	62.79	A16S
ATOM	8247	O1P	G	A	394	138.026	72.974	31.211	1.00	76.89	A16S
ATOM	8248	O2P	G	A	394	137.310	73.866	28.902	1.00	76.89	A16S
ATOM	8249	O5*	G	A	394	138.014	71.493	29.186	1.00	62.79	A16S
ATOM	8250	C5*	G	A	394	138.293	70.300	29.935	1.00	62.79	A16S
ATOM	8251	C4*	G	A	394	139.364	69.499	29.256	1.00	62.79	A16S
ATOM	8252	O4*	G	A	394	138.857	68.903	28.042	1.00	62.79	A16S
ATOM	8253	C1*	G	A	394	139.900	68.822	27.088	1.00	62.79	A16S
ATOM	8254	N9	G	A	394	139.474	69.494	25.868	1.00	76.89	A16S
ATOM	8255	C4	G	A	394	139.982	69.285	24.612	1.00	76.89	A16S
ATOM	8256	N3	G	A	394	140.968	68.433	24.296	1.00	76.89	A16S
ATOM	8257	C2	G	A	394	141.223	68.442	23.006	1.00	76.89	A16S
ATOM	8258	N2	G	A	394	142.172	67.644	22.509	1.00	76.89	A16S
ATOM	8259	N1	G	A	394	140.570	69.226	22.099	1.00	76.89	A16S
ATOM	8260	C6	G	A	394	139.553	70.110	22.396	1.00	76.89	A16S
ATOM	8261	O6	G	A	394	139.030	70.769	21.486	1.00	76.89	A16S
ATOM	8262	C5	G	A	394	139.261	70.110	23.782	1.00	76.89	A16S
ATOM	8263	N7	G	A	394	138.325	70.834	24.505	1.00	76.89	A16S
ATOM	8264	C8	G	A	394	138.493	70.441	25.737	1.00	76.89	A16S
ATOM	8265	C2*	G	A	394	141.152	69.446	27.696	1.00	62.79	A16S
ATOM	8266	O2*	G	A	394	142.003	68.414	28.152	1.00	62.79	A16S
ATOM	8267	C3*	G	A	394	140.557	70.305	28.802	1.00	62.79	A16S
ATOM	8268	O3*	G	A	394	141.447	70.562	29.859	1.00	62.79	A16S
ATOM	8269	P	C	A	395	142.345	71.880	29.805	1.00	55.60	A16S
ATOM	8270	O1P	C	A	395	143.136	71.977	31.058	1.00	66.19	A16S
ATOM	8271	O2P	C	A	395	141.439	72.994	29.417	1.00	66.19	A16S
ATOM	8272	O5*	C	A	395	143.369	71.569	28.623	1.00	55.60	A16S
ATOM	8273	C5*	C	A	395	144.373	70.547	28.792	1.00	55.60	A16S
ATOM	8274	C4*	C	A	395	145.165	70.358	27.524	1.00	55.60	A16S
ATOM	8275	O4*	C	A	395	144.306	69.840	26.487	1.00	55.60	A16S
ATOM	8276	C1*	C	A	395	144.736	70.340	25.234	1.00	55.60	A16S
ATOM	8277	N1	C	A	395	143.621	71.051	24.595	1.00	66.19	A16S
ATOM	8278	C6	C	A	395	142.608	71.599	25.332	1.00	66.19	A16S
ATOM	8279	C2	C	A	395	143.620	71.163	23.199	1.00	66.19	A16S
ATOM	8280	O2	C	A	395	144.546	70.648	22.555	1.00	66.19	A16S
ATOM	8281	N3	C	A	395	142.617	71.823	22.589	1.00	66.19	A16S
ATOM	8282	C4	C	A	395	141.637	72.355	23.310	1.00	66.19	A16S
ATOM	8283	N4	C	A	395	140.669	72.993	22.655	1.00	66.19	A16S
ATOM	8284	C5	C	A	395	141.605	72.253	24.736	1.00	66.19	A16S
ATOM	8285	C2*	C	A	395	145.940	71.249	25.464	1.00	55.60	A16S
ATOM	8286	O2*	C	A	395	147.129	70.536	25.215	1.00	55.60	A16S
ATOM	8287	C3*	C	A	395	145.769	71.612	26.926	1.00	55.60	A16S
ATOM	8288	O3*	C	A	395	147.007	71.918	27.514	1.00	55.60	A16S
ATOM	8289	P	G	A	396	147.416	73.452	27.704	1.00	70.76	A16S
ATOM	8290	O1P	G	A	396	148.698	73.489	28.461	1.00	78.94	A16S
ATOM	8291	O2P	G	A	396	146.235	74.212	28.203	1.00	78.94	A16S
ATOM	8292	O5*	G	A	396	147.694	73.934	26.223	1.00	70.76	A16S
ATOM	8293	C5*	G	A	396	148.862	73.494	25.549	1.00	70.76	A16S
ATOM	8294	C4*	G	A	396	148.948	74.149	24.209	1.00	70.76	A16S
ATOM	8295	O4*	G	A	396	147.906	73.632	23.360	1.00	70.76	A16S
ATOM	8296	C1*	G	A	396	147.508	74.633	22.457	1.00	70.76	A16S
ATOM	8297	N9	G	A	396	146.061	74.747	22.506	1.00	78.94	A16S
ATOM	8298	C4	G	A	396	145.261	75.177	21.491	1.00	78.94	A16S
ATOM	8299	N3	G	A	396	145.682	75.603	20.289	1.00	78.94	A16S
ATOM	8300	C2	G	A	396	144.675	75.918	19.501	1.00	78.94	A16S
ATOM	8301	N2	G	A	396	144.918	76.361	18.253	1.00	78.94	A16S
ATOM	8302	N1	G	A	396	143.356	75.823	19.874	1.00	78.94	A16S
ATOM	8303	C6	G	A	396	142.907	75.388	21.112	1.00	78.94	A16S
ATOM	8304	O6	G	A	396	141.700	75.336	21.344	1.00	78.94	A16S
ATOM	8305	C5	G	A	396	143.977	75.050	21.958	1.00	78.94	A16S
ATOM	8306	N7	G	A	396	143.973	74.574	23.256	1.00	78.94	A16S
ATOM	8307	C8	G	A	396	145.233	74.418	23.543	1.00	78.94	A16S
ATOM	8308	C2*	G	A	396	148.282	75.908	22.780	1.00	70.76	A16S
ATOM	8309	O2*	G	A	396	149.381	75.953	21.898	1.00	70.76	A16S



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ATOM	8310	C3*	G	A	396	148.733	75.647	24.208	1.00	70.76	A16S
ATOM	8311	O3*	G	A	396	149.947	76.304	24.515	1.00	70.76	A16S
ATOM	8312	P	A	A	397	150.019	77.265	25.796	1.00	70.90	A16S
ATOM	8313	O1P	A	A	397	151.461	77.522	26.063	1.00	73.37	A16S
ATOM	8314	O2P	A	A	397	149.151	76.699	26.866	1.00	73.37	A16S
ATOM	8315	O5*	A	A	397	149.358	78.622	25.294	1.00	70.90	A16S
ATOM	8316	C5*	A	A	397	150.007	79.389	24.288	1.00	70.90	A16S
ATOM	8317	C4*	A	A	397	149.105	80.470	23.771	1.00	70.90	A16S
ATOM	8318	O4*	A	A	397	148.928	81.480	24.791	1.00	70.90	A16S
ATOM	8319	C1*	A	A	397	148.997	82.771	24.203	1.00	70.90	A16S
ATOM	8320	N9	A	A	397	150.082	83.524	24.855	1.00	73.37	A16S
ATOM	8321	C4	A	A	397	151.416	83.209	24.947	1.00	73.37	A16S
ATOM	8322	N3	A	A	397	152.044	82.154	24.415	1.00	73.37	A16S
ATOM	8323	C2	A	A	397	153.327	82.160	24.752	1.00	73.37	A16S
ATOM	8324	N1	A	A	397	153.999	83.031	25.509	1.00	73.37	A16S
ATOM	8325	C6	A	A	397	153.333	84.078	26.027	1.00	73.37	A16S
ATOM	8326	N6	A	A	397	153.994	84.945	26.792	1.00	73.37	A16S
ATOM	8327	C5	A	A	397	151.982	84.193	25.734	1.00	73.37	A16S
ATOM	8328	N7	A	A	397	151.041	85.136	26.096	1.00	73.37	A16S
ATOM	8329	C8	A	A	397	149.936	84.701	25.548	1.00	73.37	A16S
ATOM	8330	C2*	A	A	397	149.127	82.590	22.691	1.00	70.90	A16S
ATOM	8331	O2*	A	A	397	147.842	82.607	22.099	1.00	70.90	A16S
ATOM	8332	C3*	A	A	397	149.751	81.210	22.616	1.00	70.90	A16S
ATOM	8333	O3*	A	A	397	149.491	80.528	21.412	1.00	70.90	A16S
ATOM	8334	P	C	A	398	150.439	79.311	20.990	1.00	60.64	A16S
ATOM	8335	O1P	C	A	398	149.935	78.136	21.703	1.00	71.68	A16S
ATOM	8336	O2P	C	A	398	151.861	79.712	21.151	1.00	71.68	A16S
ATOM	8337	O5*	C	A	398	150.119	79.124	19.449	1.00	60.64	A16S
ATOM	8338	C5*	C	A	398	150.564	80.086	18.486	1.00	60.64	A16S
ATOM	8339	C4*	C	A	398	149.397	80.614	17.692	1.00	60.64	A16S
ATOM	8340	O4*	C	A	398	148.370	79.594	17.578	1.00	60.64	A16S
ATOM	8341	C1*	C	A	398	147.097	80.206	17.550	1.00	60.64	A16S
ATOM	8342	N1	C	A	398	146.334	79.748	18.711	1.00	71.68	A16S
ATOM	8343	C6	C	A	398	146.891	79.742	19.963	1.00	71.68	A16S
ATOM	8344	C2	C	A	398	145.012	79.337	18.522	1.00	71.68	A16S
ATOM	8345	O2	C	A	398	144.546	79.313	17.361	1.00	71.68	A16S
ATOM	8346	N3	C	A	398	144.277	78.969	19.601	1.00	71.68	A16S
ATOM	8347	C4	C	A	398	144.830	78.979	20.821	1.00	71.68	A16S
ATOM	8348	N4	C	A	398	144.075	78.603	21.853	1.00	71.68	A16S
ATOM	8349	C5	C	A	398	146.184	79.372	21.034	1.00	71.68	A16S
ATOM	8350	C2*	C	A	398	147.306	81.715	17.607	1.00	60.64	A16S
ATOM	8351	O2*	C	A	398	147.307	82.190	16.280	1.00	60.64	A16S
ATOM	8352	C3*	C	A	398	148.673	81.808	18.274	1.00	60.64	A16S
ATOM	8353	O3*	C	A	398	149.358	82.981	17.901	1.00	60.64	A16S
ATOM	8354	P	G	A	399	148.913	84.393	18.513	1.00	55.32	A16S
ATOM	8355	O1P	G	A	399	149.834	85.377	17.870	1.00	62.81	A16S
ATOM	8356	O2P	G	A	399	148.885	84.291	19.999	1.00	62.81	A16S
ATOM	8357	O5*	G	A	399	147.415	84.594	17.972	1.00	55.32	A16S
ATOM	8358	C5*	G	A	399	147.170	84.975	16.593	1.00	55.32	A16S
ATOM	8359	C4*	G	A	399	145.764	85.514	16.408	1.00	55.32	A16S
ATOM	8360	O4*	G	A	399	144.804	84.442	16.483	1.00	55.32	A16S
ATOM	8361	C1*	G	A	399	143.623	84.905	17.111	1.00	55.32	A16S
ATOM	8362	N9	G	A	399	143.484	84.187	18.370	1.00	62.81	A16S
ATOM	8363	C4	G	A	399	142.324	83.981	19.054	1.00	62.81	A16S
ATOM	8364	N3	G	A	399	141.120	84.457	18.710	1.00	62.81	A16S
ATOM	8365	C2	G	A	399	140.185	84.065	19.543	1.00	62.81	A16S
ATOM	8366	N2	G	A	399	138.931	84.473	19.361	1.00	62.81	A16S
ATOM	8367	N1	G	A	399	140.412	83.251	20.621	1.00	62.81	A16S
ATOM	8368	C6	G	A	399	141.649	82.748	20.992	1.00	62.81	A16S
ATOM	8369	O6	G	A	399	141.744	82.001	21.971	1.00	62.81	A16S
ATOM	8370	C5	G	A	399	142.664	83.186	20.123	1.00	62.81	A16S
ATOM	8371	N7	G	A	399	144.029	82.942	20.142	1.00	62.81	A16S
ATOM	8372	C8	G	A	399	144.477	83.560	19.086	1.00	62.81	A16S
ATOM	8373	C2*	G	A	399	143.772	86.402	17.355	1.00	55.32	A16S
ATOM	8374	O2*	G	A	399	143.185	87.095	16.279	1.00	55.32	A16S
ATOM	8375	C3*	G	A	399	145.284	86.544	17.417	1.00	55.32	A16S
ATOM	8376	O3*	G	A	399	145.691	87.848	17.057	1.00	55.32	A16S
ATOM	8377	P	C	A	400	145.745	88.992	18.172	1.00	50.91	A16S
ATOM	8378	O1P	C	A	400	146.349	90.191	17.512	1.00	62.52	A16S
ATOM	8379	O2P	C	A	400	146.374	88.435	19.393	1.00	62.52	A16S
ATOM	8380	O5*	C	A	400	144.204	89.249	18.475	1.00	50.91	A16S
ATOM	8381	C5*	C	A	400	143.343	89.749	17.447	1.00	50.91	A16S
ATOM	8382	C4*	C	A	400	141.946	89.940	17.975	1.00	50.91	A16S
ATOM	8383	O4*	C	A	400	141.303	88.655	18.143	1.00	50.91	A16S
ATOM	8384	C1*	C	A	400	140.451	88.698	19.275	1.00	50.91	A16S
ATOM	8385	N1	C	A	400	140.984	87.769	20.282	1.00	62.52	A16S
ATOM	8386	C6	C	A	400	142.332	87.593	20.409	1.00	62.52	A16S



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ATOM	8387	C2	C	A	400	140.103	87.088	21.119	1.00	62.52	A16S
ATOM	8388	O2	C	A	400	138.882	87.252	20.973	1.00	62.52	A16S
ATOM	8389	N3	C	A	400	140.602	86.267	22.066	1.00	62.52	A16S
ATOM	8390	C4	C	A	400	141.921	86.115	22.186	1.00	62.52	A16S
ATOM	8391	N4	C	A	400	142.380	85.304	23.131	1.00	62.52	A16S
ATOM	8392	C5	C	A	400	142.835	86.789	21.339	1.00	62.52	A16S
ATOM	8393	C2*	C	A	400	140.474	90.129	19.812	1.00	50.91	A16S
ATOM	8394	O2*	C	A	400	139.439	90.885	19.223	1.00	50.91	A16S
ATOM	8395	C3*	C	A	400	141.831	90.608	19.334	1.00	50.91	A16S
ATOM	8396	O3*	C	A	400	141.868	92.013	19.254	1.00	50.91	A16S
ATOM	8397	P	C	A	401	142.298	92.862	20.542	1.00	52.53	A16S
ATOM	8398	O1P	C	A	401	142.256	94.288	20.141	1.00	69.38	A16S
ATOM	8399	O2P	C	A	401	143.565	92.279	21.056	1.00	69.38	A16S
ATOM	8400	O5*	C	A	401	141.121	92.613	21.591	1.00	52.53	A16S
ATOM	8401	C5*	C	A	401	139.784	93.107	21.331	1.00	52.53	A16S
ATOM	8402	C4*	C	A	401	138.842	92.757	22.467	1.00	52.53	A16S
ATOM	8403	O4*	C	A	401	138.569	91.327	22.469	1.00	52.53	A16S
ATOM	8404	C1*	C	A	401	138.489	90.854	23.810	1.00	52.53	A16S
ATOM	8405	N1	C	A	401	139.661	89.973	24.078	1.00	69.38	A16S
ATOM	8406	C6	C	A	401	140.845	90.164	23.419	1.00	69.38	A16S
ATOM	8407	C2	C	A	401	139.552	88.949	25.043	1.00	69.38	A16S
ATOM	8408	O2	C	A	401	138.471	88.775	25.621	1.00	69.38	A16S
ATOM	8409	N3	C	A	401	140.634	88.182	25.317	1.00	69.38	A16S
ATOM	8410	C4	C	A	401	141.786	88.401	24.680	1.00	69.38	A16S
ATOM	8411	N4	C	A	401	142.834	87.644	24.997	1.00	69.38	A16S
ATOM	8412	C5	C	A	401	141.919	89.412	23.690	1.00	69.38	A16S
ATOM	8413	C2*	C	A	401	138.523	92.088	24.712	1.00	52.53	A16S
ATOM	8414	O2*	C	A	401	137.213	92.577	24.903	1.00	52.53	A16S
ATOM	8415	C3*	C	A	401	139.350	93.045	23.871	1.00	52.53	A16S
ATOM	8416	O3*	C	A	401	139.209	94.396	24.274	1.00	52.53	A16S
ATOM	8417	P	G	A	402	140.195	94.984	25.408	1.00	59.35	A16S
ATOM	8418	O1P	G	A	402	139.944	96.453	25.487	1.00	68.42	A16S
ATOM	8419	O2P	G	A	402	141.580	94.498	25.171	1.00	68.42	A16S
ATOM	8420	O5*	G	A	402	139.648	94.302	26.737	1.00	59.35	A16S
ATOM	8421	C5*	G	A	402	138.288	94.509	27.145	1.00	59.35	A16S
ATOM	8422	C4*	G	A	402	137.986	93.696	28.367	1.00	59.35	A16S
ATOM	8423	O4*	G	A	402	137.995	92.283	28.031	1.00	59.35	A16S
ATOM	8424	C1*	G	A	402	138.559	91.538	29.102	1.00	59.35	A16S
ATOM	8425	N9	G	A	402	139.775	90.880	28.622	1.00	68.42	A16S
ATOM	8426	C4	G	A	402	140.510	89.919	29.278	1.00	68.42	A16S
ATOM	8427	N3	G	A	402	140.219	89.376	30.475	1.00	68.42	A16S
ATOM	8428	C2	G	A	402	141.122	88.489	30.850	1.00	68.42	A16S
ATOM	8429	N2	G	A	402	140.975	87.847	32.005	1.00	68.42	A16S
ATOM	8430	N1	G	A	402	142.233	88.168	30.117	1.00	68.42	A16S
ATOM	8431	C6	G	A	402	142.564	88.725	28.885	1.00	68.42	A16S
ATOM	8432	O6	G	A	402	143.619	88.394	28.312	1.00	68.42	A16S
ATOM	8433	C5	G	A	402	141.587	89.661	28.461	1.00	68.42	A16S
ATOM	8434	N7	G	A	402	141.518	90.416	27.302	1.00	68.42	A16S
ATOM	8435	C8	G	A	402	140.428	91.119	27.439	1.00	68.42	A16S
ATOM	8436	C2*	G	A	402	138.852	92.526	30.233	1.00	59.35	A16S
ATOM	8437	O2*	G	A	402	137.746	92.552	31.114	1.00	59.35	A16S
ATOM	8438	C3*	G	A	402	139.014	93.831	29.469	1.00	59.35	A16S
ATOM	8439	O3*	G	A	402	138.776	94.973	30.262	1.00	59.35	A16S
ATOM	8440	P	C	A	403	140.016	95.713	30.962	1.00	56.52	A16S
ATOM	8441	O1P	C	A	403	139.468	96.835	31.777	1.00	76.21	A16S
ATOM	8442	O2P	C	A	403	141.060	95.987	29.941	1.00	76.21	A16S
ATOM	8443	O5*	C	A	403	140.568	94.615	31.966	1.00	56.52	A16S
ATOM	8444	C5*	C	A	403	139.723	94.125	33.003	1.00	56.52	A16S
ATOM	8445	C4*	C	A	403	140.469	93.182	33.894	1.00	56.52	A16S
ATOM	8446	O4*	C	A	403	140.639	91.898	33.246	1.00	56.52	A16S
ATOM	8447	C1*	C	A	403	141.786	91.261	33.783	1.00	56.52	A16S
ATOM	8448	N1	C	A	403	142.719	90.878	32.706	1.00	76.21	A16S
ATOM	8449	C6	C	A	403	142.785	91.573	31.532	1.00	76.21	A16S
ATOM	8450	C2	C	A	403	143.588	89.803	32.937	1.00	76.21	A16S
ATOM	8451	O2	C	A	403	143.456	89.141	33.975	1.00	76.21	A16S
ATOM	8452	N3	C	A	403	144.542	89.510	32.026	1.00	76.21	A16S
ATOM	8453	C4	C	A	403	144.631	90.226	30.906	1.00	76.21	A16S
ATOM	8454	N4	C	A	403	145.612	89.926	30.050	1.00	76.21	A16S
ATOM	8455	C5	C	A	403	143.722	91.287	30.615	1.00	76.21	A16S
ATOM	8456	C2*	C	A	403	142.456	92.249	34.743	1.00	56.52	A16S
ATOM	8457	O2*	C	A	403	142.090	91.956	36.078	1.00	56.52	A16S
ATOM	8458	C3*	C	A	403	141.878	93.578	34.283	1.00	56.52	A16S
ATOM	8459	O3*	C	A	403	141.938	94.542	35.313	1.00	56.52	A16S
ATOM	8460	P	U	A	404	143.350	95.232	35.660	1.00	69.82	A16S
ATOM	8461	O1P	U	A	404	143.074	96.346	36.586	1.00	70.53	A16S
ATOM	8462	O2P	U	A	404	144.100	95.493	34.401	1.00	70.53	A16S
ATOM	8463	O5*	U	A	404	144.129	94.125	36.500	1.00	69.82	A16S



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ATOM	8464	C5*	U	A	404	143.592	93.643	37.746	1.00	69.82	A16S
ATOM	8465	C4*	U	A	404	144.531	92.647	38.376	1.00	69.82	A16S
ATOM	8466	O4*	U	A	404	144.638	91.461	37.555	1.00	69.82	A16S
ATOM	8467	C1*	U	A	404	145.954	90.935	37.647	1.00	69.82	A16S
ATOM	8468	N1	U	A	404	146.549	90.892	36.302	1.00	70.53	A16S
ATOM	8469	C6	U	A	404	145.887	91.385	35.200	1.00	70.53	A16S
ATOM	8470	C2	U	A	404	147.818	90.359	36.183	1.00	70.53	A16S
ATOM	8471	O2	U	A	404	148.423	89.870	37.122	1.00	70.53	A16S
ATOM	8472	N3	U	A	404	148.353	90.422	34.924	1.00	70.53	A16S
ATOM	8473	C4	U	A	404	147.764	90.936	33.793	1.00	70.53	A16S
ATOM	8474	O4	U	A	404	148.430	91.056	32.770	1.00	70.53	A16S
ATOM	8475	C5	U	A	404	146.437	91.421	33.983	1.00	70.53	A16S
ATOM	8476	C2*	U	A	404	146.749	91.831	38.598	1.00	69.82	A16S
ATOM	8477	O2*	U	A	404	146.754	91.235	39.872	1.00	69.82	A16S
ATOM	8478	C3*	U	A	404	145.955	93.127	38.541	1.00	69.82	A16S
ATOM	8479	O3*	U	A	404	146.059	93.872	39.729	1.00	69.82	A16S
ATOM	8480	P	U	A	405	147.202	94.981	39.871	1.00	57.70	A16S
ATOM	8481	O1P	U	A	405	146.941	95.664	41.175	1.00	75.38	A16S
ATOM	8482	O2P	U	A	405	147.252	95.780	38.613	1.00	75.38	A16S
ATOM	8483	O5*	U	A	405	148.524	94.109	40.028	1.00	57.70	A16S
ATOM	8484	C5*	U	A	405	148.649	93.212	41.136	1.00	57.70	A16S
ATOM	8485	C4*	U	A	405	149.889	92.383	41.005	1.00	57.70	A16S
ATOM	8486	O4*	U	A	405	149.781	91.516	39.855	1.00	57.70	A16S
ATOM	8487	C1*	U	A	405	151.062	91.336	39.285	1.00	57.70	A16S
ATOM	8488	N1	U	A	405	151.007	91.681	37.852	1.00	75.38	A16S
ATOM	8489	C6	U	A	405	150.033	92.516	37.348	1.00	75.38	A16S
ATOM	8490	C2	U	A	405	151.962	91.127	37.013	1.00	75.38	A16S
ATOM	8491	O2	U	A	405	152.863	90.413	37.410	1.00	75.38	A16S
ATOM	8492	N3	U	A	405	151.824	91.449	35.686	1.00	75.38	A16S
ATOM	8493	C4	U	A	405	150.864	92.258	35.119	1.00	75.38	A16S
ATOM	8494	O4	U	A	405	150.847	92.415	33.899	1.00	75.38	A16S
ATOM	8495	C5	U	A	405	149.935	92.814	36.046	1.00	75.38	A16S
ATOM	8496	C2*	U	A	405	152.069	92.137	40.113	1.00	57.70	A16S
ATOM	8497	O2*	U	A	405	152.675	91.254	41.036	1.00	57.70	A16S
ATOM	8498	C3*	U	A	405	151.175	93.158	40.806	1.00	57.70	A16S
ATOM	8499	O3*	U	A	405	151.688	93.531	42.081	1.00	57.70	A16S
ATOM	8500	P	G	A	406	152.870	94.620	42.197	1.00	70.22	A16S
ATOM	8501	O1P	G	A	406	153.521	94.793	40.870	1.00	84.92	A16S
ATOM	8502	O2P	G	A	406	153.697	94.232	43.366	1.00	84.92	A16S
ATOM	8503	O5*	G	A	406	152.103	95.966	42.567	1.00	70.22	A16S
ATOM	8504	C5*	G	A	406	151.422	96.712	41.552	1.00	70.22	A16S
ATOM	8505	C4*	G	A	406	149.965	96.900	41.908	1.00	70.22	A16S
ATOM	8506	O4*	G	A	406	149.549	95.950	42.921	1.00	70.22	A16S
ATOM	8507	C1*	G	A	406	148.582	96.551	43.772	1.00	70.22	A16S
ATOM	8508	N9	G	A	406	149.100	96.554	45.142	1.00	84.92	A16S
ATOM	8509	C4	G	A	406	148.486	97.087	46.265	1.00	84.92	A16S
ATOM	8510	N3	G	A	406	147.282	97.709	46.303	1.00	84.92	A16S
ATOM	8511	C2	G	A	406	146.966	98.101	47.527	1.00	84.92	A16S
ATOM	8512	N2	G	A	406	145.801	98.723	47.750	1.00	84.92	A16S
ATOM	8513	N1	G	A	406	147.768	97.907	48.622	1.00	84.92	A16S
ATOM	8514	C6	G	A	406	149.011	97.277	48.605	1.00	84.92	A16S
ATOM	8515	O6	G	A	406	149.661	97.157	49.649	1.00	84.92	A16S
ATOM	8516	C5	G	A	406	149.359	96.845	47.304	1.00	84.92	A16S
ATOM	8517	N7	G	A	406	150.492	96.178	46.855	1.00	84.92	A16S
ATOM	8518	C8	G	A	406	150.296	96.028	45.573	1.00	84.92	A16S
ATOM	8519	C2*	G	A	406	148.314	97.958	43.240	1.00	70.22	A16S
ATOM	8520	O2*	G	A	406	147.182	97.921	42.390	1.00	70.22	A16S
ATOM	8521	C3*	G	A	406	149.606	98.252	42.490	1.00	70.22	A16S
ATOM	8522	O3*	G	A	406	149.414	99.190	41.453	1.00	70.22	A16S
ATOM	8523	P	G	A	407	149.959	100.682	41.628	1.00	78.62	A16S
ATOM	8524	O1P	G	A	407	149.723	101.358	40.322	1.00	81.73	A16S
ATOM	8525	O2P	G	A	407	151.343	100.589	42.174	1.00	81.73	A16S
ATOM	8526	O5*	G	A	407	148.973	101.314	42.715	1.00	78.62	A16S
ATOM	8527	C5*	G	A	407	147.584	101.574	42.387	1.00	78.62	A16S
ATOM	8528	C4*	G	A	407	146.857	102.212	43.557	1.00	78.62	A16S
ATOM	8529	O4*	G	A	407	146.658	101.240	44.615	1.00	78.62	A16S
ATOM	8530	C1*	G	A	407	146.792	101.871	45.877	1.00	78.62	A16S
ATOM	8531	N9	G	A	407	147.924	101.250	46.554	1.00	81.73	A16S
ATOM	8532	C4	G	A	407	148.263	101.354	47.888	1.00	81.73	A16S
ATOM	8533	N3	G	A	407	147.616	102.085	48.827	1.00	81.73	A16S
ATOM	8534	C2	G	A	407	148.187	101.975	50.024	1.00	81.73	A16S
ATOM	8535	N2	G	A	407	147.688	102.640	51.070	1.00	81.73	A16S
ATOM	8536	N1	G	A	407	149.290	101.204	50.280	1.00	81.73	A16S
ATOM	8537	C6	G	A	407	149.965	100.432	49.335	1.00	81.73	A16S
ATOM	8538	O6	G	A	407	150.943	99.743	49.677	1.00	81.73	A16S
ATOM	8539	C5	G	A	407	149.379	100.556	48.041	1.00	81.73	A16S
ATOM	8540	N7	G	A	407	149.745	99.981	46.831	1.00	81.73	A16S



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ATOM	8541	C8	G	A	407	148.861	100.423	45.981	1.00	81.73	A16S
ATOM	8542	C2*	G	A	407	146.978	103.369	45.634	1.00	78.62	A16S
ATOM	8543	O2*	G	A	407	145.721	104.011	45.716	1.00	78.62	A16S
ATOM	8544	C3*	G	A	407	147.563	103.382	44.225	1.00	78.62	A16S
ATOM	8545	O3*	G	A	407	147.346	104.611	43.532	1.00	78.62	A16S
ATOM	8546	P	A	A	408	148.544	105.682	43.431	1.00	85.11	A16S
ATOM	8547	O1P	A	A	408	148.168	106.674	42.395	1.00	97.08	A16S
ATOM	8548	O2P	A	A	408	149.843	104.958	43.315	1.00	97.08	A16S
ATOM	8549	O5*	A	A	408	148.532	106.402	44.852	1.00	85.11	A16S
ATOM	8550	C5*	A	A	408	147.383	107.160	45.297	1.00	85.11	A16S
ATOM	8551	C4*	A	A	408	147.510	107.506	46.767	1.00	85.11	A16S
ATOM	8552	O4*	A	A	408	147.333	106.311	47.581	1.00	85.11	A16S
ATOM	8553	C1*	A	A	408	148.175	106.382	48.724	1.00	85.11	A16S
ATOM	8554	N9	A	A	408	149.146	105.287	48.678	1.00	97.08	A16S
ATOM	8555	C4	A	A	408	149.983	104.928	49.707	1.00	97.08	A16S
ATOM	8556	N3	A	A	408	150.051	105.479	50.931	1.00	97.08	A16S
ATOM	8557	C2	A	A	408	150.986	104.884	51.662	1.00	97.08	A16S
ATOM	8558	N1	A	A	408	151.804	103.882	51.336	1.00	97.08	A16S
ATOM	8559	C6	A	A	408	151.715	103.356	50.098	1.00	97.08	A16S
ATOM	8560	N6	A	A	408	152.542	102.363	49.771	1.00	97.08	A16S
ATOM	8561	C5	A	A	408	150.755	103.894	49.224	1.00	97.08	A16S
ATOM	8562	N7	A	A	408	150.405	103.591	47.916	1.00	97.08	A16S
ATOM	8563	C8	A	A	408	149.445	104.439	47.642	1.00	97.08	A16S
ATOM	8564	C2*	A	A	408	148.902	107.725	48.684	1.00	85.11	A16S
ATOM	8565	O2*	A	A	408	148.223	108.668	49.487	1.00	85.11	A16S
ATOM	8566	C3*	A	A	408	148.865	108.049	47.196	1.00	85.11	A16S
ATOM	8567	O3*	A	A	408	149.049	109.429	46.931	1.00	85.11	A16S
ATOM	8568	P	G	A	409	150.539	110.024	46.895	1.00	74.01	A16S
ATOM	8569	O1P	G	A	409	150.394	111.463	46.616	1.00	84.75	A16S
ATOM	8570	O2P	G	A	409	151.393	109.188	46.019	1.00	84.75	A16S
ATOM	8571	O5*	G	A	409	151.072	109.831	48.386	1.00	74.01	A16S
ATOM	8572	C5*	G	A	409	150.461	110.528	49.497	1.00	74.01	A16S
ATOM	8573	C4*	G	A	409	151.148	110.169	50.799	1.00	74.01	A16S
ATOM	8574	O4*	G	A	409	151.078	108.733	51.003	1.00	74.01	A16S
ATOM	8575	C1*	G	A	409	152.232	108.296	51.706	1.00	74.01	A16S
ATOM	8576	N9	G	A	409	152.906	107.243	50.946	1.00	84.75	A16S
ATOM	8577	C4	G	A	409	153.921	106.434	51.405	1.00	84.75	A16S
ATOM	8578	N3	G	A	409	154.461	106.465	52.639	1.00	84.75	A16S
ATOM	8579	C2	G	A	409	155.417	105.562	52.784	1.00	84.75	A16S
ATOM	8580	N2	G	A	409	156.053	105.444	53.956	1.00	84.75	A16S
ATOM	8581	N1	G	A	409	155.818	104.705	51.795	1.00	84.75	A16S
ATOM	8582	C6	G	A	409	155.285	104.659	50.516	1.00	84.75	A16S
ATOM	8583	O6	G	A	409	155.734	103.856	49.697	1.00	84.75	A16S
ATOM	8584	C5	G	A	409	154.245	105.615	50.348	1.00	84.75	A16S
ATOM	8585	N7	G	A	409	153.447	105.893	49.248	1.00	84.75	A16S
ATOM	8586	C8	G	A	409	152.671	106.864	49.647	1.00	84.75	A16S
ATOM	8587	C2*	G	A	409	153.117	109.515	51.965	1.00	74.01	A16S
ATOM	8588	O2*	G	A	409	152.868	109.976	53.273	1.00	74.01	A16S
ATOM	8589	C3*	G	A	409	152.632	110.497	50.905	1.00	74.01	A16S
ATOM	8590	O3*	G	A	409	152.851	111.847	51.318	1.00	74.01	A16S
ATOM	8591	P	G	A	410	154.183	112.630	50.845	1.00	78.32	A16S
ATOM	8592	O1P	G	A	410	154.330	113.841	51.709	1.00	110.03	A16S
ATOM	8593	O2P	G	A	410	154.131	112.788	49.378	1.00	110.03	A16S
ATOM	8594	O5*	G	A	410	155.374	111.630	51.185	1.00	78.32	A16S
ATOM	8595	C5*	G	A	410	155.723	111.366	52.543	1.00	78.32	A16S
ATOM	8596	C4*	G	A	410	156.760	110.288	52.610	1.00	78.32	A16S
ATOM	8597	O4*	G	A	410	156.209	109.038	52.129	1.00	78.32	A16S
ATOM	8598	C1*	G	A	410	157.224	108.287	51.488	1.00	78.32	A16S
ATOM	8599	N9	G	A	410	156.778	107.958	50.134	1.00	110.03	A16S
ATOM	8600	C4	G	A	410	157.234	106.921	49.349	1.00	110.03	A16S
ATOM	8601	N3	G	A	410	158.162	106.010	49.700	1.00	110.03	A16S
ATOM	8602	C2	G	A	410	158.393	105.142	48.731	1.00	110.03	A16S
ATOM	8603	N2	G	A	410	159.286	104.166	48.909	1.00	110.03	A16S
ATOM	8604	N1	G	A	410	157.769	105.164	47.513	1.00	110.03	A16S
ATOM	8605	C6	G	A	410	156.809	106.085	47.125	1.00	110.03	A16S
ATOM	8606	O6	G	A	410	156.307	106.008	45.997	1.00	110.03	A16S
ATOM	8607	C5	G	A	410	156.543	107.029	48.161	1.00	110.03	A16S
ATOM	8608	N7	G	A	410	155.663	108.103	48.199	1.00	110.03	A16S
ATOM	8609	C8	G	A	410	155.835	108.622	49.385	1.00	110.03	A16S
ATOM	8610	C2*	G	A	410	158.516	109.114	51.536	1.00	78.32	A16S
ATOM	8611	O2*	G	A	410	159.335	108.660	52.599	1.00	78.32	A16S
ATOM	8612	C3*	G	A	410	157.982	110.527	51.752	1.00	78.32	A16S
ATOM	8613	O3*	G	A	410	158.898	111.360	52.441	1.00	78.32	A16S
ATOM	8614	P	A	A	411	159.382	112.738	51.775	1.00	95.44	A16S
ATOM	8615	O1P	A	A	411	158.956	113.847	52.667	1.00	83.08	A16S
ATOM	8616	O2P	A	A	411	158.971	112.759	50.353	1.00	83.08	A16S
ATOM	8617	O5*	A	A	411	160.964	112.614	51.834	1.00	95.44	A16S



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ATOM	8618	C5*	A	A	411	161.647	112.525	53.098	1.00	95.44	A16S
ATOM	8619	C4*	A	A	411	163.115	112.811	52.910	1.00	95.44	A16S
ATOM	8620	O4*	A	A	411	163.753	111.659	52.310	1.00	95.44	A16S
ATOM	8621	C1*	A	A	411	164.682	112.085	51.327	1.00	95.44	A16S
ATOM	8622	N9	A	A	411	164.243	111.509	50.052	1.00	83.08	A16S
ATOM	8623	C4	A	A	411	164.484	110.221	49.640	1.00	83.08	A16S
ATOM	8624	N3	A	A	411	165.163	109.268	50.299	1.00	83.08	A16S
ATOM	8625	C2	A	A	411	165.183	108.141	49.600	1.00	83.08	A16S
ATOM	8626	N1	A	A	411	164.639	107.874	48.410	1.00	83.08	A16S
ATOM	8627	C6	A	A	411	163.957	108.854	47.778	1.00	83.08	A16S
ATOM	8628	N6	A	A	411	163.390	108.588	46.598	1.00	83.08	A16S
ATOM	8629	C5	A	A	411	163.871	110.100	48.409	1.00	83.08	A16S
ATOM	8630	N7	A	A	411	163.255	111.288	48.042	1.00	83.08	A16S
ATOM	8631	C8	A	A	411	163.507	112.091	49.045	1.00	83.08	A16S
ATOM	8632	C2*	A	A	411	164.749	113.620	51.365	1.00	95.44	A16S
ATOM	8633	O2*	A	A	411	165.837	114.067	52.151	1.00	95.44	A16S
ATOM	8634	C3*	A	A	411	163.394	113.970	51.966	1.00	95.44	A16S
ATOM	8635	O3*	A	A	411	163.390	115.204	52.662	1.00	95.44	A16S
ATOM	8636	P	A	A	412	162.671	116.476	52.008	1.00	108.92	A16S
ATOM	8637	O1P	A	A	412	162.530	117.511	53.062	1.00	194.48	A16S
ATOM	8638	O2P	A	A	412	161.466	116.008	51.272	1.00	194.48	A16S
ATOM	8639	O5*	A	A	412	163.743	116.983	50.950	1.00	108.92	A16S
ATOM	8640	C5*	A	A	412	165.132	117.084	51.305	1.00	108.92	A16S
ATOM	8641	C4*	A	A	412	165.990	116.774	50.108	1.00	108.92	A16S
ATOM	8642	O4*	A	A	412	165.624	117.634	49.006	1.00	108.92	A16S
ATOM	8643	C1*	A	A	412	166.726	117.744	48.138	1.00	108.92	A16S
ATOM	8644	N9	A	A	412	166.794	119.101	47.611	1.00	194.48	A16S
ATOM	8645	C4	A	A	412	166.560	119.437	46.302	1.00	194.48	A16S
ATOM	8646	N3	A	A	412	166.209	118.611	45.303	1.00	194.48	A16S
ATOM	8647	C2	A	A	412	166.085	119.281	44.165	1.00	194.48	A16S
ATOM	8648	N1	A	A	412	166.261	120.585	43.928	1.00	194.48	A16S
ATOM	8649	C6	A	A	412	166.616	121.387	44.956	1.00	194.48	A16S
ATOM	8650	N6	A	A	412	166.803	122.688	44.720	1.00	194.48	A16S
ATOM	8651	C5	A	A	412	166.772	120.797	46.219	1.00	194.48	A16S
ATOM	8652	N7	A	A	412	167.116	121.318	47.459	1.00	194.48	A16S
ATOM	8653	C8	A	A	412	167.110	120.273	48.250	1.00	194.48	A16S
ATOM	8654	C2*	A	A	412	167.984	117.259	48.867	1.00	108.92	A16S
ATOM	8655	O2*	A	A	412	168.495	116.108	48.230	1.00	108.92	A16S
ATOM	8656	C3*	A	A	412	167.478	117.009	50.291	1.00	108.92	A16S
ATOM	8657	O3*	A	A	412	168.046	115.828	50.843	1.00	108.92	A16S
ATOM	8658	P	G	A	413	169.612	115.773	51.200	1.00	117.86	A16S
ATOM	8659	O1P	G	A	413	169.787	116.276	52.588	1.00	107.43	A16S
ATOM	8660	O2P	G	A	413	170.419	116.367	50.090	1.00	107.43	A16S
ATOM	8661	O5*	G	A	413	169.906	114.215	51.234	1.00	100.24	A16S
ATOM	8662	C5*	G	A	413	170.101	113.496	50.018	1.00	100.24	A16S
ATOM	8663	C4*	G	A	413	169.041	112.443	49.867	1.00	100.24	A16S
ATOM	8664	O4*	G	A	413	167.755	113.042	49.585	1.00	100.24	A16S
ATOM	8665	C1*	G	A	413	166.986	112.133	48.827	1.00	100.24	A16S
ATOM	8666	N9	G	A	413	166.255	112.839	47.773	1.00	107.43	A16S
ATOM	8667	C4	G	A	413	165.780	112.304	46.600	1.00	107.43	A16S
ATOM	8668	N3	G	A	413	165.964	111.045	46.180	1.00	107.43	A16S
ATOM	8669	C2	G	A	413	165.347	110.810	45.040	1.00	107.43	A16S
ATOM	8670	N2	G	A	413	165.437	109.609	44.484	1.00	107.43	A16S
ATOM	8671	N1	G	A	413	164.599	111.735	44.361	1.00	107.43	A16S
ATOM	8672	C6	G	A	413	164.394	113.042	44.767	1.00	107.43	A16S
ATOM	8673	O6	G	A	413	163.694	113.796	44.077	1.00	107.43	A16S
ATOM	8674	C5	G	A	413	165.064	113.314	45.996	1.00	107.43	A16S
ATOM	8675	N7	G	A	413	165.124	114.476	46.751	1.00	107.43	A16S
ATOM	8676	C8	G	A	413	165.850	114.151	47.787	1.00	107.43	A16S
ATOM	8677	C2*	G	A	413	167.870	110.947	48.435	1.00	100.24	A16S
ATOM	8678	O2*	G	A	413	167.526	109.876	49.283	1.00	100.24	A16S
ATOM	8679	C3*	G	A	413	169.273	111.474	48.725	1.00	100.24	A16S
ATOM	8680	O3*	G	A	413	170.155	110.492	49.259	1.00	100.24	A16S
ATOM	8681	P	A	A	414	170.544	109.180	48.421	1.00	85.79	A16S
ATOM	8682	O1P	A	A	414	171.994	109.315	48.114	1.00	113.02	A16S
ATOM	8683	O2P	A	A	414	169.583	108.969	47.311	1.00	113.02	A16S
ATOM	8684	O5*	A	A	414	170.365	108.014	49.502	1.00	85.79	A16S
ATOM	8685	C5*	A	A	414	170.561	108.293	50.915	1.00	85.79	A16S
ATOM	8686	C4*	A	A	414	170.756	107.018	51.707	1.00	85.79	A16S
ATOM	8687	O4*	A	A	414	169.502	106.316	51.857	1.00	85.79	A16S
ATOM	8688	C1*	A	A	414	169.749	104.925	51.916	1.00	85.79	A16S
ATOM	8689	N9	A	A	414	168.914	104.263	50.918	1.00	113.02	A16S
ATOM	8690	C4	A	A	414	168.930	102.926	50.612	1.00	113.02	A16S
ATOM	8691	N3	A	A	414	169.722	101.983	51.141	1.00	113.02	A16S
ATOM	8692	C2	A	A	414	169.446	100.793	50.615	1.00	113.02	A16S
ATOM	8693	N1	A	A	414	168.535	100.463	49.690	1.00	113.02	A16S
ATOM	8694	C6	A	A	414	167.752	101.436	49.180	1.00	113.02	A16S



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ATOM	8695	N6	A	A	414	166.834	101.102	48.267	1.00113.02	A16S
ATOM	8696	C5	A	A	414	167.952	102.747	49.653	1.00113.02	A16S
ATOM	8697	N7	A	A	414	167.342	103.954	49.346	1.00113.02	A16S
ATOM	8698	C8	A	A	414	167.950	104.819	50.118	1.00113.02	A16S
ATOM	8699	C2*	A	A	414	171.254	104.685	51.749	1.00 85.79	A16S
ATOM	8700	O2*	A	A	414	171.824	104.419	53.011	1.00 85.79	A16S
ATOM	8701	C3*	A	A	414	171.728	106.000	51.133	1.00 85.79	A16S
ATOM	8702	O3*	A	A	414	173.059	106.319	51.534	1.00 85.79	A16S
ATOM	8703	P	A	A	415	174.289	106.056	50.530	1.00 84.04	A16S
ATOM	8704	O1P	A	A	415	175.519	106.578	51.190	1.00111.20	A16S
ATOM	8705	O2P	A	A	415	173.924	106.537	49.170	1.00111.20	A16S
ATOM	8706	O5*	A	A	415	174.396	104.473	50.477	1.00 84.04	A16S
ATOM	8707	C5*	A	A	415	174.713	103.725	51.651	1.00 84.04	A16S
ATOM	8708	C4*	A	A	415	174.534	102.258	51.384	1.00 84.04	A16S
ATOM	8709	O4*	A	A	415	173.129	101.976	51.154	1.00 84.04	A16S
ATOM	8710	C1*	A	A	415	173.002	100.957	50.175	1.00 84.04	A16S
ATOM	8711	N9	A	A	415	172.220	101.486	49.051	1.00111.20	A16S
ATOM	8712	C4	A	A	415	171.487	100.742	48.154	1.00111.20	A16S
ATOM	8713	N3	A	A	415	171.327	99.408	48.138	1.00111.20	A16S
ATOM	8714	C2	A	A	415	170.552	99.038	47.122	1.00111.20	A16S
ATOM	8715	N1	A	A	415	169.966	99.790	46.187	1.00111.20	A16S
ATOM	8716	C6	A	A	415	170.148	101.127	46.227	1.00111.20	A16S
ATOM	8717	N6	A	A	415	169.571	101.875	45.286	1.00111.20	A16S
ATOM	8718	C5	A	A	415	170.944	101.650	47.264	1.00111.20	A16S
ATOM	8719	N7	A	A	415	171.318	102.947	47.593	1.00111.20	A16S
ATOM	8720	C8	A	A	415	172.069	102.797	48.658	1.00111.20	A16S
ATOM	8721	C2*	A	A	415	174.417	100.516	49.779	1.00 84.04	A16S
ATOM	8722	O2*	A	A	415	174.811	99.393	50.544	1.00 84.04	A16S
ATOM	8723	C3*	A	A	415	175.238	101.745	50.140	1.00 84.04	A16S
ATOM	8724	O3*	A	A	415	176.598	101.433	50.392	1.00 84.04	A16S
ATOM	8725	P	G	A	416	177.669	101.562	49.205	1.00 88.27	A16S
ATOM	8726	O1P	G	A	416	178.989	101.127	49.732	1.00118.66	A16S
ATOM	8727	O2P	G	A	416	177.531	102.907	48.597	1.00118.66	A16S
ATOM	8728	O5*	G	A	416	177.177	100.482	48.144	1.00 88.27	A16S
ATOM	8729	C5*	G	A	416	177.208	99.078	48.464	1.00 88.27	A16S
ATOM	8730	C4*	G	A	416	176.526	98.266	47.382	1.00 88.27	A16S
ATOM	8731	O4*	G	A	416	175.101	98.534	47.376	1.00 88.27	A16S
ATOM	8732	C1*	G	A	416	174.624	98.552	46.042	1.00 88.27	A16S
ATOM	8733	N9	G	A	416	174.217	99.923	45.743	1.00118.66	A16S
ATOM	8734	C4	G	A	416	173.337	100.337	44.770	1.00118.66	A16S
ATOM	8735	N3	G	A	416	172.690	99.542	43.893	1.00118.66	A16S
ATOM	8736	C2	G	A	416	171.904	100.236	43.090	1.00118.66	A16S
ATOM	8737	N2	G	A	416	171.183	99.602	42.156	1.00118.66	A16S
ATOM	8738	N1	G	A	416	171.766	101.604	43.143	1.00118.66	A16S
ATOM	8739	C6	G	A	416	172.430	102.441	44.036	1.00118.66	A16S
ATOM	8740	O6	G	A	416	172.245	103.665	43.998	1.00118.66	A16S
ATOM	8741	C5	G	A	416	173.270	101.710	44.900	1.00118.66	A16S
ATOM	8742	N7	G	A	416	174.099	102.151	45.921	1.00118.66	A16S
ATOM	8743	C8	G	A	416	174.640	101.061	46.390	1.00118.66	A16S
ATOM	8744	C2*	G	A	416	175.774	98.094	45.147	1.00 88.27	A16S
ATOM	8745	O2*	G	A	416	175.730	96.684	45.005	1.00 88.27	A16S
ATOM	8746	C3*	G	A	416	176.976	98.542	45.959	1.00 88.27	A16S
ATOM	8747	O3*	G	A	416	178.143	97.824	45.620	1.00 88.27	A16S
ATOM	8748	P	C	A	417	179.165	98.453	44.561	1.00 98.05	A16S
ATOM	8749	O1P	C	A	417	180.213	97.431	44.303	1.00112.78	A16S
ATOM	8750	O2P	C	A	417	179.563	99.806	45.024	1.00112.78	A16S
ATOM	8751	O5*	C	A	417	178.270	98.643	43.255	1.00 98.05	A16S
ATOM	8752	C5*	C	A	417	177.798	97.508	42.491	1.00 98.05	A16S
ATOM	8753	C4*	C	A	417	177.034	97.981	41.275	1.00 98.05	A16S
ATOM	8754	O4*	C	A	417	175.804	98.612	41.712	1.00 98.05	A16S
ATOM	8755	C1*	C	A	417	175.549	99.756	40.919	1.00 98.05	A16S
ATOM	8756	N1	C	A	417	175.560	100.942	41.798	1.00112.78	A16S
ATOM	8757	C6	C	A	417	176.414	101.023	42.864	1.00112.78	A16S
ATOM	8758	C2	C	A	417	174.685	101.996	41.519	1.00112.78	A16S
ATOM	8759	O2	C	A	417	173.916	101.898	40.554	1.00112.78	A16S
ATOM	8760	N3	C	A	417	174.697	103.094	42.306	1.00112.78	A16S
ATOM	8761	C4	C	A	417	175.532	103.163	43.340	1.00112.78	A16S
ATOM	8762	N4	C	A	417	175.499	104.262	44.093	1.00112.78	A16S
ATOM	8763	C5	C	A	417	176.434	102.105	43.652	1.00112.78	A16S
ATOM	8764	C2*	C	A	417	176.617	99.821	39.824	1.00 98.05	A16S
ATOM	8765	O2*	C	A	417	176.158	99.194	38.648	1.00 98.05	A16S
ATOM	8766	C3*	C	A	417	177.756	99.045	40.459	1.00 98.05	A16S
ATOM	8767	O3*	C	A	417	178.626	98.488	39.484	1.00 98.05	A16S
ATOM	8768	P	C	A	418	179.862	99.360	38.935	1.00 75.74	A16S
ATOM	8769	O1P	C	A	418	180.491	100.069	40.080	1.00109.02	A16S
ATOM	8770	O2P	C	A	418	180.694	98.477	38.079	1.00109.02	A16S
ATOM	8771	O5*	C	A	418	179.177	100.469	38.013	1.00 75.74	A16S



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ATOM	8772	C5*	C	A	418	178.723	100.146	36.683	1.00	75.74	A16S
ATOM	8773	C4*	C	A	418	178.219	101.382	35.974	1.00	75.74	A16S
ATOM	8774	O4*	C	A	418	177.046	101.893	36.649	1.00	75.74	A16S
ATOM	8775	C1*	C	A	418	177.006	103.301	36.531	1.00	75.74	A16S
ATOM	8776	N1	C	A	418	176.955	103.888	37.879	1.00109.02		A16S
ATOM	8777	C6	C	A	418	177.236	103.139	38.987	1.00109.02		A16S
ATOM	8778	C2	C	A	418	176.616	105.237	38.008	1.00109.02		A16S
ATOM	8779	O2	C	A	418	176.350	105.889	36.989	1.00109.02		A16S
ATOM	8780	N3	C	A	418	176.585	105.796	39.235	1.00109.02		A16S
ATOM	8781	C4	C	A	418	176.872	105.061	40.308	1.00109.02		A16S
ATOM	8782	N4	C	A	418	176.842	105.660	41.499	1.00109.02		A16S
ATOM	8783	C5	C	A	418	177.205	103.680	40.208	1.00109.02		A16S
ATOM	8784	C2*	C	A	418	178.223	103.745	35.721	1.00	75.74	A16S
ATOM	8785	O2*	C	A	418	177.815	103.941	34.383	1.00	75.74	A16S
ATOM	8786	C3*	C	A	418	179.170	102.563	35.901	1.00	75.74	A16S
ATOM	8787	O3*	C	A	418	180.048	102.415	34.793	1.00	75.74	A16S
ATOM	8788	P	C	A	419	181.514	103.076	34.839	1.00	79.92	A16S
ATOM	8789	O1P	C	A	419	182.248	102.602	33.630	1.00108.90		A16S
ATOM	8790	O2P	C	A	419	182.080	102.823	36.195	1.00108.90		A16S
ATOM	8791	O5*	C	A	419	181.248	104.640	34.682	1.00	79.92	A16S
ATOM	8792	C5*	C	A	419	180.610	105.144	33.505	1.00	79.92	A16S
ATOM	8793	C4*	C	A	419	180.122	106.553	33.719	1.00	79.92	A16S
ATOM	8794	O4*	C	A	419	179.094	106.595	34.738	1.00	79.92	A16S
ATOM	8795	C1*	C	A	419	179.112	107.867	35.367	1.00	79.92	A16S
ATOM	8796	N1	C	A	419	179.280	107.697	36.816	1.00108.90		A16S
ATOM	8797	C6	C	A	419	179.617	106.487	37.356	1.00108.90		A16S
ATOM	8798	C2	C	A	419	179.103	108.815	37.642	1.00108.90		A16S
ATOM	8799	O2	C	A	419	178.772	109.897	37.128	1.00108.90		A16S
ATOM	8800	N3	C	A	419	179.294	108.691	38.972	1.00108.90		A16S
ATOM	8801	C4	C	A	419	179.638	107.508	39.487	1.00108.90		A16S
ATOM	8802	N4	C	A	419	179.829	107.432	40.806	1.00108.90		A16S
ATOM	8803	C5	C	A	419	179.804	106.350	38.673	1.00108.90		A16S
ATOM	8804	C2*	C	A	419	180.270	108.669	34.775	1.00	79.92	A16S
ATOM	8805	O2*	C	A	419	179.771	109.564	33.804	1.00	79.92	A16S
ATOM	8806	C3*	C	A	419	181.142	107.568	34.188	1.00	79.92	A16S
ATOM	8807	O3*	C	A	419	181.926	108.053	33.123	1.00	79.92	A16S
ATOM	8808	P	U	A	420	183.447	108.447	33.399	1.00	83.48	A16S
ATOM	8809	O1P	U	A	420	184.062	108.821	32.103	1.00	86.66	A16S
ATOM	8810	O2P	U	A	420	184.050	107.356	34.216	1.00	86.66	A16S
ATOM	8811	O5*	U	A	420	183.337	109.770	34.274	1.00	83.48	A16S
ATOM	8812	C5*	U	A	420	182.893	111.000	33.684	1.00	83.48	A16S
ATOM	8813	C4*	U	A	420	182.858	112.093	34.723	1.00	83.48	A16S
ATOM	8814	O4*	U	A	420	181.960	111.688	35.784	1.00	83.48	A16S
ATOM	8815	C1*	U	A	420	182.452	112.147	37.027	1.00	83.48	A16S
ATOM	8816	N1	U	A	420	182.633	110.983	37.912	1.00	86.66	A16S
ATOM	8817	C6	U	A	420	182.767	109.712	37.405	1.00	86.66	A16S
ATOM	8818	C2	U	A	420	182.664	111.203	39.284	1.00	86.66	A16S
ATOM	8819	O2	U	A	420	182.522	112.313	39.788	1.00	86.66	A16S
ATOM	8820	N3	U	A	420	182.856	110.075	40.049	1.00	86.66	A16S
ATOM	8821	C4	U	A	420	183.005	108.782	39.599	1.00	86.66	A16S
ATOM	8822	O4	U	A	420	183.208	107.876	40.411	1.00	86.66	A16S
ATOM	8823	C5	U	A	420	182.943	108.636	38.179	1.00	86.66	A16S
ATOM	8824	C2*	U	A	420	183.721	112.964	36.758	1.00	83.48	A16S
ATOM	8825	O2*	U	A	420	183.381	114.337	36.660	1.00	83.48	A16S
ATOM	8826	C3*	U	A	420	184.178	112.396	35.420	1.00	83.48	A16S
ATOM	8827	O3*	U	A	420	184.963	113.334	34.674	1.00	83.48	A16S
ATOM	8828	P	U	A	421	186.546	113.085	34.487	1.00	92.73	A16S
ATOM	8829	O1P	U	A	421	186.859	113.114	33.037	1.00	99.95	A16S
ATOM	8830	O2P	U	A	421	186.942	111.900	35.303	1.00	99.95	A16S
ATOM	8831	O5*	U	A	421	187.213	114.388	35.103	1.00	92.73	A16S
ATOM	8832	C5*	U	A	421	186.609	115.055	36.211	1.00	92.73	A16S
ATOM	8833	C4*	U	A	421	186.933	116.514	36.157	1.00	92.73	A16S
ATOM	8834	O4*	U	A	421	186.514	117.042	34.876	1.00	92.73	A16S
ATOM	8835	C1*	U	A	421	185.593	118.097	35.069	1.00	92.73	A16S
ATOM	8836	N1	U	A	421	184.477	117.905	34.127	1.00	99.95	A16S
ATOM	8837	C6	U	A	421	184.063	116.636	33.779	1.00	99.95	A16S
ATOM	8838	C2	U	A	421	183.842	119.034	33.602	1.00	99.95	A16S
ATOM	8839	O2	U	A	421	184.158	120.184	33.886	1.00	99.95	A16S
ATOM	8840	N3	U	A	421	182.814	118.763	32.734	1.00	99.95	A16S
ATOM	8841	C4	U	A	421	182.355	117.519	32.350	1.00	99.95	A16S
ATOM	8842	O4	U	A	421	181.422	117.441	31.543	1.00	99.95	A16S
ATOM	8843	C5	U	A	421	183.054	116.413	32.938	1.00	99.95	A16S
ATOM	8844	C2*	U	A	421	185.098	118.015	36.513	1.00	92.73	A16S
ATOM	8845	O2*	U	A	421	184.817	119.313	37.007	1.00	92.73	A16S
ATOM	8846	C3*	U	A	421	186.264	117.349	37.236	1.00	92.73	A16S
ATOM	8847	O3*	U	A	421	187.179	118.307	37.739	1.00	92.73	A16S
ATOM	8848	P	C	A	422	188.184	117.893	38.924	1.00116.35		A16S



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ATOM	8849	O1P	C	A	422	188.550	119.157	39.617	1.00139.99	A16S
ATOM	8850	O2P	C	A	422	189.250	117.019	38.356	1.00139.99	A16S
ATOM	8851	O5*	C	A	422	187.313	116.999	39.914	1.00116.35	A16S
ATOM	8852	C5*	C	A	422	186.218	117.565	40.643	1.00116.35	A16S
ATOM	8853	C4*	C	A	422	185.762	116.620	41.728	1.00116.35	A16S
ATOM	8854	O4*	C	A	422	185.253	115.399	41.134	1.00116.35	A16S
ATOM	8855	C1*	C	A	422	185.853	114.287	41.759	1.00116.35	A16S
ATOM	8856	N1	C	A	422	185.994	113.210	40.773	1.00139.99	A16S
ATOM	8857	C6	C	A	422	186.457	113.465	39.510	1.00139.99	A16S
ATOM	8858	C2	C	A	422	185.631	111.906	41.145	1.00139.99	A16S
ATOM	8859	O2	C	A	422	185.238	111.695	42.304	1.00139.99	A16S
ATOM	8860	N3	C	A	422	185.720	110.913	40.233	1.00139.99	A16S
ATOM	8861	C4	C	A	422	186.154	111.178	38.997	1.00139.99	A16S
ATOM	8862	N4	C	A	422	186.203	110.169	38.122	1.00139.99	A16S
ATOM	8863	C5	C	A	422	186.551	112.490	38.600	1.00139.99	A16S
ATOM	8864	C2*	C	A	422	187.170	114.783	42.343	1.00116.35	A16S
ATOM	8865	O2*	C	A	422	187.538	113.954	43.428	1.00116.35	A16S
ATOM	8866	C3*	C	A	422	186.794	116.198	42.772	1.00116.35	A16S
ATOM	8867	O3*	C	A	422	186.136	116.120	44.031	1.00116.35	A16S
ATOM	8868	P	G	A	423	186.701	116.943	45.293	1.00107.74	A16S
ATOM	8869	O1P	G	A	423	187.799	117.844	44.842	1.00111.10	A16S
ATOM	8870	O2P	G	A	423	186.958	115.949	46.376	1.00111.10	A16S
ATOM	8871	O5*	G	A	423	185.479	117.880	45.715	1.00107.74	A16S
ATOM	8872	C5*	G	A	423	184.114	117.404	45.657	1.00107.74	A16S
ATOM	8873	C4*	G	A	423	183.180	118.539	45.301	1.00107.74	A16S
ATOM	8874	O4*	G	A	423	183.603	119.135	44.049	1.00107.74	A16S
ATOM	8875	C1*	G	A	423	182.471	119.590	43.334	1.00107.74	A16S
ATOM	8876	N9	G	A	423	182.523	119.065	41.967	1.00111.10	A16S
ATOM	8877	C4	G	A	423	182.524	117.739	41.556	1.00111.10	A16S
ATOM	8878	N3	G	A	423	182.471	116.650	42.355	1.00111.10	A16S
ATOM	8879	C2	G	A	423	182.487	115.521	41.658	1.00111.10	A16S
ATOM	8880	N2	G	A	423	182.445	114.340	42.289	1.00111.10	A16S
ATOM	8881	N1	G	A	423	182.550	115.461	40.290	1.00111.10	A16S
ATOM	8882	C6	G	A	423	182.610	116.561	39.445	1.00111.10	A16S
ATOM	8883	O6	G	A	423	182.670	116.391	38.220	1.00111.10	A16S
ATOM	8884	C5	G	A	423	182.592	117.786	40.177	1.00111.10	A16S
ATOM	8885	N7	G	A	423	182.630	119.101	39.730	1.00111.10	A16S
ATOM	8886	C8	G	A	423	182.586	119.820	40.819	1.00111.10	A16S
ATOM	8887	C2*	G	A	423	181.220	119.253	44.152	1.00107.74	A16S
ATOM	8888	O2*	G	A	423	180.806	120.393	44.875	1.00107.74	A16S
ATOM	8889	C3*	G	A	423	181.728	118.151	45.076	1.00107.74	A16S
ATOM	8890	O3*	G	A	423	181.005	118.137	46.300	1.00107.74	A16S
ATOM	8891	P	G	A	424	180.098	116.866	46.676	1.00125.51	A16S
ATOM	8892	O1P	G	A	424	179.243	117.265	47.822	1.00102.24	A16S
ATOM	8893	O2P	G	A	424	180.989	115.688	46.807	1.00102.24	A16S
ATOM	8894	O5*	G	A	424	179.156	116.668	45.403	1.00125.51	A16S
ATOM	8895	C5*	G	A	424	178.381	117.772	44.883	1.00125.51	A16S
ATOM	8896	C4*	G	A	424	178.165	117.622	43.391	1.00125.51	A16S
ATOM	8897	O4*	G	A	424	179.381	117.083	42.806	1.00125.51	A16S
ATOM	8898	C1*	G	A	424	179.058	116.223	41.729	1.00125.51	A16S
ATOM	8899	N9	G	A	424	179.393	114.860	42.116	1.00102.24	A16S
ATOM	8900	C4	G	A	424	179.504	113.793	41.267	1.00102.24	A16S
ATOM	8901	N3	G	A	424	179.390	113.842	39.926	1.00102.24	A16S
ATOM	8902	C2	G	A	424	179.487	112.647	39.381	1.00102.24	A16S
ATOM	8903	N2	G	A	424	179.391	112.518	38.052	1.00102.24	A16S
ATOM	8904	N1	G	A	424	179.685	111.491	40.095	1.00102.24	A16S
ATOM	8905	C6	G	A	424	179.816	111.417	41.478	1.00102.24	A16S
ATOM	8906	O6	G	A	424	179.997	110.321	42.023	1.00102.24	A16S
ATOM	8907	C5	G	A	424	179.710	112.698	42.077	1.00102.24	A16S
ATOM	8908	N7	G	A	424	179.773	113.077	43.411	1.00102.24	A16S
ATOM	8909	C8	G	A	424	179.592	114.370	43.385	1.00102.24	A16S
ATOM	8910	C2*	G	A	424	177.548	116.295	41.528	1.00125.51	A16S
ATOM	8911	O2*	G	A	424	177.233	117.278	40.564	1.00125.51	A16S
ATOM	8912	C3*	G	A	424	177.080	116.658	42.928	1.00125.51	A16S
ATOM	8913	O3*	G	A	424	175.781	117.232	42.899	1.00125.51	A16S
ATOM	8914	P	G	A	425	174.494	116.268	42.916	1.00 96.50	A16S
ATOM	8915	O1P	G	A	425	173.281	117.116	43.065	1.00103.27	A16S
ATOM	8916	O2P	G	A	425	174.748	115.168	43.875	1.00103.27	A16S
ATOM	8917	O5*	G	A	425	174.469	115.630	41.463	1.00 96.50	A16S
ATOM	8918	C5*	G	A	425	174.154	116.434	40.321	1.00 96.50	A16S
ATOM	8919	C4*	G	A	425	174.125	115.576	39.088	1.00 96.50	A16S
ATOM	8920	O4*	G	A	425	175.440	114.995	38.891	1.00 96.50	A16S
ATOM	8921	C1*	G	A	425	175.310	113.659	38.444	1.00 96.50	A16S
ATOM	8922	N9	G	A	425	175.859	112.791	39.476	1.00103.27	A16S
ATOM	8923	C4	G	A	425	175.978	111.428	39.410	1.00103.27	A16S
ATOM	8924	N3	G	A	425	175.627	110.653	38.362	1.00103.27	A16S
ATOM	8925	C2	G	A	425	175.848	109.375	38.602	1.00103.27	A16S



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ATOM	8926	N2	G	A	425	175.569	108.465	37.666	1.00103.27	A16S
ATOM	8927	N1	G	A	425	176.362	108.896	39.777	1.00103.27	A16S
ATOM	8928	C6	G	A	425	176.727	109.677	40.869	1.00103.27	A16S
ATOM	8929	O6	G	A	425	177.177	109.143	41.889	1.00103.27	A16S
ATOM	8930	C5	G	A	425	176.507	111.049	40.622	1.00103.27	A16S
ATOM	8931	N7	G	A	425	176.734	112.154	41.429	1.00103.27	A16S
ATOM	8932	C8	G	A	425	176.337	113.165	40.709	1.00103.27	A16S
ATOM	8933	C2*	G	A	425	173.822	113.385	38.224	1.00 96.50	A16S
ATOM	8934	O2*	G	A	425	173.514	113.629	36.868	1.00 96.50	A16S
ATOM	8935	C3*	G	A	425	173.185	114.389	39.175	1.00 96.50	A16S
ATOM	8936	O3*	G	A	425	171.873	114.756	38.792	1.00 96.50	A16S
ATOM	8937	P	G	A	426	170.622	113.950	39.390	1.00 75.84	A16S
ATOM	8938	O1P	G	A	426	169.396	114.585	38.852	1.00100.51	A16S
ATOM	8939	O2P	G	A	426	170.795	113.819	40.860	1.00100.51	A16S
ATOM	8940	O5*	G	A	426	170.759	112.502	38.744	1.00 75.84	A16S
ATOM	8941	C5*	G	A	426	170.695	112.341	37.322	1.00 75.84	A16S
ATOM	8942	C4*	G	A	426	170.822	110.889	36.945	1.00 75.84	A16S
ATOM	8943	O4*	G	A	426	172.124	110.389	37.327	1.00 75.84	A16S
ATOM	8944	C1*	G	A	426	172.035	108.997	37.579	1.00 75.84	A16S
ATOM	8945	N9	G	A	426	172.625	108.708	38.884	1.00100.51	A16S
ATOM	8946	C4	G	A	426	173.001	107.470	39.341	1.00100.51	A16S
ATOM	8947	N3	G	A	426	172.912	106.317	38.655	1.00100.51	A16S
ATOM	8948	C2	G	A	426	173.343	105.292	39.361	1.00100.51	A16S
ATOM	8949	N2	G	A	426	173.347	104.072	38.824	1.00100.51	A16S
ATOM	8950	N1	G	A	426	173.808	105.386	40.646	1.00100.51	A16S
ATOM	8951	C6	G	A	426	173.902	106.559	41.376	1.00100.51	A16S
ATOM	8952	O6	G	A	426	174.319	106.526	42.538	1.00100.51	A16S
ATOM	8953	C5	G	A	426	173.464	107.676	40.622	1.00100.51	A16S
ATOM	8954	N7	G	A	426	173.405	109.021	40.956	1.00100.51	A16S
ATOM	8955	C8	G	A	426	172.902	109.595	39.896	1.00100.51	A16S
ATOM	8956	C2*	G	A	426	170.563	108.583	37.461	1.00 75.84	A16S
ATOM	8957	O2*	G	A	426	170.348	107.933	36.220	1.00 75.84	A16S
ATOM	8958	C3*	G	A	426	169.844	109.925	37.589	1.00 75.84	A16S
ATOM	8959	O3*	G	A	426	168.602	109.941	36.905	1.00 75.84	A16S
ATOM	8960	P	U	A	427	167.275	109.444	37.654	1.00 85.90	A16S
ATOM	8961	O1P	U	A	427	166.164	109.690	36.710	1.00109.39	A16S
ATOM	8962	O2P	U	A	427	167.213	110.021	39.020	1.00109.39	A16S
ATOM	8963	O5*	U	A	427	167.483	107.870	37.795	1.00 85.90	A16S
ATOM	8964	C5*	U	A	427	167.519	107.023	36.632	1.00 85.90	A16S
ATOM	8965	C4*	U	A	427	167.762	105.589	37.037	1.00 85.90	A16S
ATOM	8966	O4*	U	A	427	169.091	105.470	37.594	1.00 85.90	A16S
ATOM	8967	C1*	U	A	427	169.086	104.510	38.640	1.00 85.90	A16S
ATOM	8968	N1	U	A	427	169.620	105.141	39.860	1.00109.39	A16S
ATOM	8969	C6	U	A	427	169.446	106.487	40.109	1.00109.39	A16S
ATOM	8970	C2	U	A	427	170.313	104.340	40.754	1.00109.39	A16S
ATOM	8971	O2	U	A	427	170.482	103.145	40.586	1.00109.39	A16S
ATOM	8972	N3	U	A	427	170.800	104.991	41.858	1.00109.39	A16S
ATOM	8973	C4	U	A	427	170.663	106.331	42.165	1.00109.39	A16S
ATOM	8974	O4	U	A	427	171.129	106.762	43.227	1.00109.39	A16S
ATOM	8975	C5	U	A	427	169.930	107.090	41.198	1.00109.39	A16S
ATOM	8976	C2*	U	A	427	167.665	103.945	38.773	1.00 85.90	A16S
ATOM	8977	O2*	U	A	427	167.566	102.687	38.126	1.00 85.90	A16S
ATOM	8978	C3*	U	A	427	166.828	105.031	38.104	1.00 85.90	A16S
ATOM	8979	O3*	U	A	427	165.673	104.468	37.504	1.00 85.90	A16S
ATOM	8980	P	G	A	428	164.331	104.315	38.358	1.00 73.58	A16S
ATOM	8981	O1P	G	A	428	164.705	103.628	39.616	1.00 87.61	A16S
ATOM	8982	O2P	G	A	428	163.273	103.740	37.487	1.00 87.61	A16S
ATOM	8983	O5*	G	A	428	163.950	105.817	38.706	1.00 73.58	A16S
ATOM	8984	C5*	G	A	428	162.782	106.134	39.487	1.00 73.58	A16S
ATOM	8985	C4*	G	A	428	163.173	107.028	40.632	1.00 73.58	A16S
ATOM	8986	O4*	G	A	428	163.848	106.249	41.640	1.00 73.58	A16S
ATOM	8987	C1*	G	A	428	164.790	107.067	42.300	1.00 73.58	A16S
ATOM	8988	N9	G	A	428	165.966	106.268	42.636	1.00 87.61	A16S
ATOM	8989	C4	G	A	428	166.702	106.373	43.787	1.00 87.61	A16S
ATOM	8990	N3	G	A	428	166.445	107.206	44.808	1.00 87.61	A16S
ATOM	8991	C2	G	A	428	167.339	107.102	45.768	1.00 87.61	A16S
ATOM	8992	N2	G	A	428	167.214	107.841	46.876	1.00 87.61	A16S
ATOM	8993	N1	G	A	428	168.415	106.261	45.724	1.00 87.61	A16S
ATOM	8994	C6	G	A	428	168.705	105.392	44.685	1.00 87.61	A16S
ATOM	8995	O6	G	A	428	169.716	104.683	44.748	1.00 87.61	A16S
ATOM	8996	C5	G	A	428	167.733	105.476	43.651	1.00 87.61	A16S
ATOM	8997	N7	G	A	428	167.631	104.788	42.451	1.00 87.61	A16S
ATOM	8998	C8	G	A	428	166.566	105.289	41.883	1.00 87.61	A16S
ATOM	8999	C2*	G	A	428	165.026	108.342	41.472	1.00 73.58	A16S
ATOM	9000	O2*	G	A	428	164.666	109.513	42.161	1.00 73.58	A16S
ATOM	9001	C3*	G	A	428	164.167	108.106	40.236	1.00 73.58	A16S
ATOM	9002	O3*	G	A	428	163.501	109.266	39.704	1.00 73.58	A16S



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ATOM	9003	P	U	A	429	162.372	110.067	40.563	1.00	80.88	A16S
ATOM	9004	O1P	U	A	429	161.149	110.080	39.725	1.00	88.07	A16S
ATOM	9005	O2P	U	A	429	162.938	111.353	41.042	1.00	88.07	A16S
ATOM	9006	O5*	U	A	429	162.004	109.166	41.826	1.00	80.88	A16S
ATOM	9007	C5*	U	A	429	160.921	109.564	42.696	1.00	80.88	A16S
ATOM	9008	C4*	U	A	429	160.070	108.373	43.091	1.00	80.88	A16S
ATOM	9009	O4*	U	A	429	160.617	107.770	44.300	1.00	80.88	A16S
ATOM	9010	C1*	U	A	429	159.619	107.727	45.295	1.00	80.88	A16S
ATOM	9011	N1	U	A	429	160.239	107.863	46.621	1.00	88.07	A16S
ATOM	9012	C6	U	A	429	160.371	109.078	47.248	1.00	88.07	A16S
ATOM	9013	C2	U	A	429	160.676	106.706	47.223	1.00	88.07	A16S
ATOM	9014	O2	U	A	429	160.574	105.614	46.700	1.00	88.07	A16S
ATOM	9015	N3	U	A	429	161.231	106.867	48.464	1.00	88.07	A16S
ATOM	9016	C4	U	A	429	161.387	108.044	49.152	1.00	88.07	A16S
ATOM	9017	O4	U	A	429	161.971	108.037	50.239	1.00	88.07	A16S
ATOM	9018	C5	U	A	429	160.906	109.205	48.462	1.00	88.07	A16S
ATOM	9019	C2*	U	A	429	158.618	108.817	44.937	1.00	80.88	A16S
ATOM	9020	O2*	U	A	429	157.378	108.514	45.535	1.00	80.88	A16S
ATOM	9021	C3*	U	A	429	158.614	108.733	43.415	1.00	80.88	A16S
ATOM	9022	O3*	U	A	429	157.703	107.678	43.077	1.00	80.88	A16S
ATOM	9023	P	A	A	430	157.707	107.028	41.607	1.00	81.97	A16S
ATOM	9024	O1P	A	A	430	158.116	108.074	40.612	1.00	79.61	A16S
ATOM	9025	O2P	A	A	430	156.422	106.294	41.436	1.00	79.61	A16S
ATOM	9026	O5*	A	A	430	158.858	105.937	41.698	1.00	81.97	A16S
ATOM	9027	C5*	A	A	430	158.967	105.110	42.853	1.00	81.97	A16S
ATOM	9028	C4*	A	A	430	159.909	103.980	42.585	1.00	81.97	A16S
ATOM	9029	O4*	A	A	430	161.236	104.507	42.338	1.00	81.97	A16S
ATOM	9030	C1*	A	A	430	162.208	103.614	42.865	1.00	81.97	A16S
ATOM	9031	N9	A	A	430	162.972	104.308	43.900	1.00	79.61	A16S
ATOM	9032	C4	A	A	430	164.071	103.804	44.550	1.00	79.61	A16S
ATOM	9033	N3	A	A	430	164.675	102.625	44.334	1.00	79.61	A16S
ATOM	9034	C2	A	A	430	165.684	102.458	45.180	1.00	79.61	A16S
ATOM	9035	N1	A	A	430	166.116	103.268	46.147	1.00	79.61	A16S
ATOM	9036	C6	A	A	430	165.478	104.440	46.340	1.00	79.61	A16S
ATOM	9037	N6	A	A	430	165.885	105.238	47.324	1.00	79.61	A16S
ATOM	9038	C5	A	A	430	164.409	104.745	45.499	1.00	79.61	A16S
ATOM	9039	N7	A	A	430	163.564	105.840	45.428	1.00	79.61	A16S
ATOM	9040	C8	A	A	430	162.737	105.536	44.459	1.00	79.61	A16S
ATOM	9041	C2*	A	A	430	161.464	102.430	43.481	1.00	81.97	A16S
ATOM	9042	O2*	A	A	430	161.418	101.343	42.577	1.00	81.97	A16S
ATOM	9043	C3*	A	A	430	160.101	103.044	43.758	1.00	81.97	A16S
ATOM	9044	O3*	A	A	430	159.069	102.086	43.857	1.00	81.97	A16S
ATOM	9045	P	A	A	431	158.495	101.718	45.305	1.00	77.29	A16S
ATOM	9046	O1P	A	A	431	157.566	100.571	45.145	1.00	81.15	A16S
ATOM	9047	O2P	A	A	431	158.003	102.977	45.930	1.00	81.15	A16S
ATOM	9048	O5*	A	A	431	159.792	101.206	46.080	1.00	77.29	A16S
ATOM	9049	C5*	A	A	431	160.528	100.076	45.583	1.00	77.29	A16S
ATOM	9050	C4*	A	A	431	161.725	99.777	46.458	1.00	77.29	A16S
ATOM	9051	O4*	A	A	431	162.683	100.866	46.407	1.00	77.29	A16S
ATOM	9052	C1*	A	A	431	163.423	100.903	47.619	1.00	77.29	A16S
ATOM	9053	N9	A	A	431	163.320	102.238	48.199	1.00	81.15	A16S
ATOM	9054	C4	A	A	431	163.867	102.642	49.391	1.00	81.15	A16S
ATOM	9055	N3	A	A	431	164.603	101.906	50.241	1.00	81.15	A16S
ATOM	9056	C2	A	A	431	164.954	102.631	51.298	1.00	81.15	A16S
ATOM	9057	N1	A	A	431	164.666	103.907	51.583	1.00	81.15	A16S
ATOM	9058	C6	A	A	431	163.916	104.611	50.708	1.00	81.15	A16S
ATOM	9059	N6	A	A	431	163.607	105.875	50.995	1.00	81.15	A16S
ATOM	9060	C5	A	A	431	163.496	103.963	49.546	1.00	81.15	A16S
ATOM	9061	N7	A	A	431	162.743	104.391	48.466	1.00	81.15	A16S
ATOM	9062	C8	A	A	431	162.667	103.333	47.699	1.00	81.15	A16S
ATOM	9063	C2*	A	A	431	162.860	99.824	48.542	1.00	77.29	A16S
ATOM	9064	O2*	A	A	431	163.709	98.699	48.483	1.00	77.29	A16S
ATOM	9065	C3*	A	A	431	161.479	99.576	47.940	1.00	77.29	A16S
ATOM	9066	O3*	A	A	431	160.996	98.273	48.227	1.00	77.29	A16S
ATOM	9067	P	A	A	432	160.048	98.050	49.508	1.00	97.21	A16S
ATOM	9068	O1P	A	A	432	159.774	96.594	49.587	1.00	102.47	A16S
ATOM	9069	O2P	A	A	432	158.915	99.009	49.450	1.00	102.47	A16S
ATOM	9070	O5*	A	A	432	160.969	98.459	50.744	1.00	97.21	A16S
ATOM	9071	C5*	A	A	432	162.174	97.717	51.051	1.00	97.21	A16S
ATOM	9072	C4*	A	A	432	162.902	98.346	52.218	1.00	97.21	A16S
ATOM	9073	O4*	A	A	432	163.402	99.648	51.825	1.00	97.21	A16S
ATOM	9074	C1*	A	A	432	163.248	100.558	52.900	1.00	97.21	A16S
ATOM	9075	N9	A	A	432	162.255	101.548	52.499	1.00	102.47	A16S
ATOM	9076	C4	A	A	432	162.129	102.822	52.986	1.00	102.47	A16S
ATOM	9077	N3	A	A	432	162.904	103.421	53.901	1.00	102.47	A16S
ATOM	9078	C2	A	A	432	162.482	104.662	54.129	1.00	102.47	A16S
ATOM	9079	N1	A	A	432	161.448	105.320	53.593	1.00	102.47	A16S



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ATOM	9080	C6	A	A	432	160.687	104.686	52.680	1.00102.47	A16S
ATOM	9081	N6	A	A	432	159.649	105.340	52.158	1.00102.47	A16S
ATOM	9082	C5	A	A	432	161.037	103.366	52.342	1.00102.47	A16S
ATOM	9083	N7	A	A	432	160.490	102.453	51.453	1.00102.47	A16S
ATOM	9084	C8	A	A	432	161.248	101.396	51.582	1.00102.47	A16S
ATOM	9085	C2*	A	A	432	162.762	99.768	54.114	1.00 97.21	A16S
ATOM	9086	O2*	A	A	432	163.878	99.346	54.871	1.00 97.21	A16S
ATOM	9087	C3*	A	A	432	162.042	98.609	53.446	1.00 97.21	A16S
ATOM	9088	O3*	A	A	432	161.964	97.472	54.282	1.00 97.21	A16S
ATOM	9089	P	C	A	433	160.527	96.913	54.715	1.00 92.52	A16S
ATOM	9090	O1P	C	A	433	160.777	95.797	55.651	1.00104.57	A16S
ATOM	9091	O2P	C	A	433	159.703	96.682	53.508	1.00104.57	A16S
ATOM	9092	O5*	C	A	433	159.872	98.121	55.507	1.00 92.52	A16S
ATOM	9093	C5*	C	A	433	160.486	98.632	56.695	1.00 92.52	A16S
ATOM	9094	C4*	C	A	433	159.832	99.927	57.094	1.00 92.52	A16S
ATOM	9095	O4*	C	A	433	160.126	100.941	56.102	1.00 92.52	A16S
ATOM	9096	C1*	C	A	433	158.988	101.762	55.905	1.00 92.52	A16S
ATOM	9097	N1	C	A	433	158.591	101.662	54.492	1.00104.57	A16S
ATOM	9098	C6	C	A	433	158.668	100.470	53.822	1.00104.57	A16S
ATOM	9099	C2	C	A	433	158.125	102.806	53.843	1.00104.57	A16S
ATOM	9100	O2	C	A	433	158.084	103.876	54.466	1.00104.57	A16S
ATOM	9101	N3	C	A	433	157.738	102.719	52.554	1.00104.57	A16S
ATOM	9102	C4	C	A	433	157.813	101.552	51.911	1.00104.57	A16S
ATOM	9103	N4	C	A	433	157.427	101.516	50.637	1.00104.57	A16S
ATOM	9104	C5	C	A	433	158.293	100.371	52.545	1.00104.57	A16S
ATOM	9105	C2*	C	A	433	157.892	101.296	56.868	1.00 92.52	A16S
ATOM	9106	O2*	C	A	433	157.866	102.134	58.006	1.00 92.52	A16S
ATOM	9107	C3*	C	A	433	158.320	99.860	57.149	1.00 92.52	A16S
ATOM	9108	O3*	C	A	433	157.889	99.372	58.403	1.00 92.52	A16S
ATOM	9109	P	U	A	434	156.428	98.732	58.534	1.00 84.98	A16S
ATOM	9110	O1P	U	A	434	156.320	98.169	59.906	1.00102.06	A16S
ATOM	9111	O2P	U	A	434	156.192	97.848	57.356	1.00102.06	A16S
ATOM	9112	O5*	U	A	434	155.475	100.004	58.433	1.00 84.98	A16S
ATOM	9113	C5*	U	A	434	155.480	100.992	59.473	1.00 84.98	A16S
ATOM	9114	C4*	U	A	434	154.400	102.010	59.236	1.00 84.98	A16S
ATOM	9115	O4*	U	A	434	154.780	102.875	58.145	1.00 84.98	A16S
ATOM	9116	C1*	U	A	434	153.619	103.262	57.432	1.00 84.98	A16S
ATOM	9117	N1	U	A	434	153.795	102.916	56.013	1.00102.06	A16S
ATOM	9118	C6	U	A	434	154.760	102.027	55.608	1.00102.06	A16S
ATOM	9119	C2	U	A	434	152.956	103.523	55.091	1.00102.06	A16S
ATOM	9120	O2	U	A	434	152.072	104.304	55.401	1.00102.06	A16S
ATOM	9121	N3	U	A	434	153.187	103.174	53.791	1.00102.06	A16S
ATOM	9122	C4	U	A	434	154.135	102.300	53.324	1.00102.06	A16S
ATOM	9123	O4	U	A	434	154.212	102.088	52.118	1.00102.06	A16S
ATOM	9124	C5	U	A	434	154.952	101.707	54.332	1.00102.06	A16S
ATOM	9125	C2*	U	A	434	152.402	102.601	58.091	1.00 84.98	A16S
ATOM	9126	O2*	U	A	434	151.742	103.510	58.947	1.00 84.98	A16S
ATOM	9127	C3*	U	A	434	153.039	101.450	58.852	1.00 84.98	A16S
ATOM	9128	O3*	U	A	434	152.269	101.116	59.999	1.00 84.98	A16S
ATOM	9129	P	C	A	435	151.100	100.018	59.883	1.00 88.20	A16S
ATOM	9130	O1P	C	A	435	150.577	99.785	61.256	1.00111.19	A16S
ATOM	9131	O2P	C	A	435	151.637	98.868	59.103	1.00111.19	A16S
ATOM	9132	O5*	C	A	435	149.960	100.739	59.023	1.00 88.20	A16S
ATOM	9133	C5*	C	A	435	149.132	101.774	59.598	1.00 88.20	A16S
ATOM	9134	C4*	C	A	435	148.298	102.438	58.529	1.00 88.20	A16S
ATOM	9135	O4*	C	A	435	149.183	103.049	57.559	1.00 88.20	A16S
ATOM	9136	C1*	C	A	435	148.623	102.936	56.262	1.00 88.20	A16S
ATOM	9137	N1	C	A	435	149.546	102.166	55.405	1.00111.19	A16S
ATOM	9138	C6	C	A	435	150.511	101.365	55.947	1.00111.19	A16S
ATOM	9139	C2	C	A	435	149.421	102.272	54.019	1.00111.19	A16S
ATOM	9140	O2	C	A	435	148.526	102.990	53.551	1.00111.19	A16S
ATOM	9141	N3	C	A	435	150.273	101.588	53.224	1.00111.19	A16S
ATOM	9142	C4	C	A	435	151.215	100.816	53.765	1.00111.19	A16S
ATOM	9143	N4	C	A	435	152.038	100.163	52.943	1.00111.19	A16S
ATOM	9144	C5	C	A	435	151.358	100.681	55.172	1.00111.19	A16S
ATOM	9145	C2*	C	A	435	147.252	102.278	56.400	1.00 88.20	A16S
ATOM	9146	O2*	C	A	435	146.275	103.296	56.463	1.00 88.20	A16S
ATOM	9147	C3*	C	A	435	147.401	101.520	57.711	1.00 88.20	A16S
ATOM	9148	O3*	C	A	435	146.140	101.327	58.337	1.00 88.20	A16S
ATOM	9149	P	C	A	436	145.258	100.030	57.975	1.00 84.25	A16S
ATOM	9150	O1P	C	A	436	144.116	99.948	58.918	1.00 91.48	A16S
ATOM	9151	O2P	C	A	436	146.188	98.878	57.852	1.00 91.48	A16S
ATOM	9152	O5*	C	A	436	144.648	100.355	56.541	1.00 84.25	A16S
ATOM	9153	C5*	C	A	436	143.748	101.463	56.360	1.00 84.25	A16S
ATOM	9154	C4*	C	A	436	143.372	101.613	54.899	1.00 84.25	A16S
ATOM	9155	O4*	C	A	436	144.520	102.031	54.113	1.00 84.25	A16S
ATOM	9156	C1*	C	A	436	144.454	101.448	52.820	1.00 84.25	A16S



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ATOM	9157	N1	C	A	436	145.651	100.606	52.628	1.00	91.48	A16S
ATOM	9158	C6	C	A	436	146.504	100.365	53.669	1.00	91.48	A16S
ATOM	9159	C2	C	A	436	145.902	100.046	51.365	1.00	91.48	A16S
ATOM	9160	O2	C	A	436	145.123	100.288	50.423	1.00	91.48	A16S
ATOM	9161	N3	C	A	436	146.990	99.256	51.204	1.00	91.48	A16S
ATOM	9162	C4	C	A	436	147.805	99.018	52.239	1.00	91.48	A16S
ATOM	9163	N4	C	A	436	148.853	98.214	52.047	1.00	91.48	A16S
ATOM	9164	C5	C	A	436	147.579	99.588	53.519	1.00	91.48	A16S
ATOM	9165	C2*	C	A	436	143.145	100.659	52.736	1.00	84.25	A16S
ATOM	9166	O2*	C	A	436	142.145	101.481	52.166	1.00	84.25	A16S
ATOM	9167	C3*	C	A	436	142.865	100.365	54.202	1.00	84.25	A16S
ATOM	9168	O3*	C	A	436	141.487	100.176	54.425	1.00	84.25	A16S
ATOM	9169	P	U	A	437	140.882	98.704	54.312	1.00	67.07	A16S
ATOM	9170	O1P	U	A	437	139.454	98.729	54.713	1.00	78.60	A16S
ATOM	9171	O2P	U	A	437	141.837	97.795	55.010	1.00	78.60	A16S
ATOM	9172	O5*	U	A	437	140.930	98.387	52.754	1.00	67.07	A16S
ATOM	9173	C5*	U	A	437	140.042	99.049	51.835	1.00	67.07	A16S
ATOM	9174	C4*	U	A	437	140.288	98.562	50.426	1.00	67.07	A16S
ATOM	9175	O4*	U	A	437	141.655	98.860	50.050	1.00	67.07	A16S
ATOM	9176	C1*	U	A	437	142.172	97.814	49.254	1.00	67.07	A16S
ATOM	9177	N1	U	A	437	143.356	97.252	49.929	1.00	78.60	A16S
ATOM	9178	C6	U	A	437	143.633	97.531	51.251	1.00	78.60	A16S
ATOM	9179	C2	U	A	437	144.197	96.422	49.189	1.00	78.60	A16S
ATOM	9180	O2	U	A	437	143.997	96.147	48.012	1.00	78.60	A16S
ATOM	9181	N3	U	A	437	145.283	95.929	49.877	1.00	78.60	A16S
ATOM	9182	C4	U	A	437	145.617	96.173	51.192	1.00	78.60	A16S
ATOM	9183	O4	U	A	437	146.654	95.691	51.655	1.00	78.60	A16S
ATOM	9184	C5	U	A	437	144.704	97.034	51.888	1.00	78.60	A16S
ATOM	9185	C2*	U	A	437	141.047	96.806	49.025	1.00	67.07	A16S
ATOM	9186	O2*	U	A	437	140.396	97.114	47.815	1.00	67.07	A16S
ATOM	9187	C3*	U	A	437	140.145	97.066	50.221	1.00	67.07	A16S
ATOM	9188	O3*	U	A	437	138.787	96.722	49.959	1.00	67.07	A16S
ATOM	9189	P	G	A	438	138.263	95.243	50.306	1.00	77.39	A16S
ATOM	9190	O1P	G	A	438	136.933	95.053	49.670	1.00	88.23	A16S
ATOM	9191	O2P	G	A	438	138.409	95.030	51.767	1.00	88.23	A16S
ATOM	9192	O5*	G	A	438	139.318	94.310	49.566	1.00	77.39	A16S
ATOM	9193	C5*	G	A	438	139.504	94.384	48.140	1.00	77.39	A16S
ATOM	9194	C4*	G	A	438	140.465	93.317	47.695	1.00	77.39	A16S
ATOM	9195	O4*	G	A	438	141.770	93.570	48.279	1.00	77.39	A16S
ATOM	9196	C1*	G	A	438	142.204	92.427	48.984	1.00	77.39	A16S
ATOM	9197	N9	G	A	438	142.949	92.856	50.166	1.00	88.23	A16S
ATOM	9198	C4	G	A	438	144.189	92.413	50.554	1.00	88.23	A16S
ATOM	9199	N3	G	A	438	144.950	91.521	49.897	1.00	88.23	A16S
ATOM	9200	C2	G	A	438	146.088	91.285	50.524	1.00	88.23	A16S
ATOM	9201	N2	G	A	438	146.972	90.423	50.001	1.00	88.23	A16S
ATOM	9202	N1	G	A	438	146.447	91.873	51.707	1.00	88.23	A16S
ATOM	9203	C6	G	A	438	145.675	92.787	52.411	1.00	88.23	A16S
ATOM	9204	O6	G	A	438	146.087	93.243	53.494	1.00	88.23	A16S
ATOM	9205	C5	G	A	438	144.456	93.061	51.738	1.00	88.23	A16S
ATOM	9206	N7	G	A	438	143.417	93.909	52.078	1.00	88.23	A16S
ATOM	9207	C8	G	A	438	142.547	93.758	51.118	1.00	88.23	A16S
ATOM	9208	C2*	G	A	438	140.940	91.643	49.330	1.00	77.39	A16S
ATOM	9209	O2*	G	A	438	141.225	90.278	49.564	1.00	77.39	A16S
ATOM	9210	C3*	G	A	438	140.063	91.906	48.110	1.00	77.39	A16S
ATOM	9211	O3*	G	A	438	140.350	90.990	47.065	1.00	77.39	A16S
ATOM	9212	P	A	A	439	139.346	90.874	45.813	1.00	63.55	A16S
ATOM	9213	O1P	A	A	439	138.920	92.258	45.477	1.00	83.27	A16S
ATOM	9214	O2P	A	A	439	138.303	89.833	46.052	1.00	83.27	A16S
ATOM	9215	O5*	A	A	439	140.305	90.372	44.650	1.00	63.55	A16S
ATOM	9216	C5*	A	A	439	140.540	88.977	44.458	1.00	63.55	A16S
ATOM	9217	C4*	A	A	439	141.209	88.739	43.129	1.00	63.55	A16S
ATOM	9218	O4*	A	A	439	142.561	89.259	43.170	1.00	63.55	A16S
ATOM	9219	C1*	A	A	439	143.437	88.374	42.495	1.00	63.55	A16S
ATOM	9220	N9	A	A	439	144.421	87.892	43.469	1.00	83.27	A16S
ATOM	9221	C4	A	A	439	145.602	87.249	43.194	1.00	83.27	A16S
ATOM	9222	N3	A	A	439	146.085	86.917	41.988	1.00	83.27	A16S
ATOM	9223	C2	A	A	439	147.272	86.327	42.105	1.00	83.27	A16S
ATOM	9224	N1	A	A	439	147.981	86.052	43.208	1.00	83.27	A16S
ATOM	9225	C6	A	A	439	147.466	86.397	44.405	1.00	83.27	A16S
ATOM	9226	N6	A	A	439	148.175	86.123	45.503	1.00	83.27	A16S
ATOM	9227	C5	A	A	439	146.208	87.028	44.417	1.00	83.27	A16S
ATOM	9228	N7	A	A	439	145.414	87.506	45.448	1.00	83.27	A16S
ATOM	9229	C8	A	A	439	144.370	88.003	44.837	1.00	83.27	A16S
ATOM	9230	C2*	A	A	439	142.580	87.270	41.870	1.00	63.55	A16S
ATOM	9231	O2*	A	A	439	142.236	87.615	40.543	1.00	63.55	A16S
ATOM	9232	C3*	A	A	439	141.371	87.274	42.787	1.00	63.55	A16S
ATOM	9233	O3*	A	A	439	140.197	86.772	42.176	1.00	63.55	A16S



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ATOM	9234	P	A	A	440	139.727	85.271	42.496	1.00	70.49	A16S
ATOM	9235	O1P	A	A	440	138.579	84.937	41.617	1.00101.44		A16S
ATOM	9236	O2P	A	A	440	139.588	85.120	43.966	1.00101.44		A16S
ATOM	9237	O5*	A	A	440	140.977	84.410	42.019	1.00	70.49	A16S
ATOM	9238	C5*	A	A	440	141.381	83.251	42.741	1.00	70.49	A16S
ATOM	9239	C4*	A	A	440	142.879	83.096	42.696	1.00	70.49	A16S
ATOM	9240	O4*	A	A	440	143.521	84.287	43.209	1.00	70.49	A16S
ATOM	9241	C1*	A	A	440	144.477	83.931	44.188	1.00	70.49	A16S
ATOM	9242	N9	A	A	440	143.909	84.320	45.482	1.00101.44		A16S
ATOM	9243	C4	A	A	440	144.510	84.289	46.716	1.00101.44		A16S
ATOM	9244	N3	A	A	440	145.758	83.891	47.006	1.00101.44		A16S
ATOM	9245	C2	A	A	440	145.992	84.006	48.311	1.00101.44		A16S
ATOM	9246	N1	A	A	440	145.181	84.442	49.282	1.00101.44		A16S
ATOM	9247	C6	A	A	440	143.934	84.829	48.951	1.00101.44		A16S
ATOM	9248	N6	A	A	440	143.124	85.260	49.915	1.00101.44		A16S
ATOM	9249	C5	A	A	440	143.563	84.755	47.606	1.00101.44		A16S
ATOM	9250	N7	A	A	440	142.387	85.069	46.951	1.00101.44		A16S
ATOM	9251	C8	A	A	440	142.641	84.796	45.700	1.00101.44		A16S
ATOM	9252	C2*	A	A	440	144.705	82.422	44.057	1.00	70.49	A16S
ATOM	9253	O2*	A	A	440	145.719	82.152	43.112	1.00	70.49	A16S
ATOM	9254	C3*	A	A	440	143.339	81.961	43.582	1.00	70.49	A16S
ATOM	9255	O3*	A	A	440	143.346	80.777	42.822	1.00	70.49	A16S
ATOM	9256	P	C	A	442	142.069	79.811	42.876	1.00	99.30	A16S
ATOM	9257	O1P	C	A	442	142.403	78.633	42.032	1.00	98.84	A16S
ATOM	9258	O2P	C	A	442	140.819	80.574	42.613	1.00	98.84	A16S
ATOM	9259	O5*	C	A	442	142.015	79.371	44.400	1.00	99.30	A16S
ATOM	9260	C5*	C	A	442	143.139	78.737	45.010	1.00	99.30	A16S
ATOM	9261	C4*	C	A	442	143.050	78.865	46.500	1.00	99.30	A16S
ATOM	9262	O4*	C	A	442	143.234	80.250	46.876	1.00	99.30	A16S
ATOM	9263	C1*	C	A	442	142.419	80.546	47.995	1.00	99.30	A16S
ATOM	9264	N1	C	A	442	141.467	81.602	47.617	1.00	98.84	A16S
ATOM	9265	C6	C	A	442	141.038	81.741	46.324	1.00	98.84	A16S
ATOM	9266	C2	C	A	442	140.978	82.451	48.619	1.00	98.84	A16S
ATOM	9267	O2	C	A	442	141.413	82.331	49.775	1.00	98.84	A16S
ATOM	9268	N3	C	A	442	140.049	83.378	48.303	1.00	98.84	A16S
ATOM	9269	C4	C	A	442	139.614	83.485	47.046	1.00	98.84	A16S
ATOM	9270	N4	C	A	442	138.673	84.394	46.789	1.00	98.84	A16S
ATOM	9271	C5	C	A	442	140.120	82.658	45.998	1.00	98.84	A16S
ATOM	9272	C2*	C	A	442	141.686	79.264	48.394	1.00	99.30	A16S
ATOM	9273	O2*	C	A	442	142.391	78.618	49.431	1.00	99.30	A16S
ATOM	9274	C3*	C	A	442	141.707	78.484	47.090	1.00	99.30	A16S
ATOM	9275	O3*	C	A	442	141.600	77.086	47.278	1.00	99.30	A16S
ATOM	9276	P	C	A	443	140.147	76.409	47.341	1.00	90.87	A16S
ATOM	9277	O1P	C	A	443	140.355	74.937	47.367	1.00113.75		A16S
ATOM	9278	O2P	C	A	443	139.281	77.007	46.292	1.00113.75		A16S
ATOM	9279	O5*	C	A	443	139.603	76.867	48.766	1.00	90.87	A16S
ATOM	9280	C5*	C	A	443	140.239	76.407	49.975	1.00	90.87	A16S
ATOM	9281	C4*	C	A	443	139.469	76.872	51.183	1.00	90.87	A16S
ATOM	9282	O4*	C	A	443	139.615	78.304	51.330	1.00	90.87	A16S
ATOM	9283	C1*	C	A	443	138.418	78.848	51.855	1.00	90.87	A16S
ATOM	9284	N1	C	A	443	137.895	79.854	50.913	1.00113.75		A16S
ATOM	9285	C6	C	A	443	138.120	79.752	49.569	1.00113.75		A16S
ATOM	9286	C2	C	A	443	137.154	80.927	51.422	1.00113.75		A16S
ATOM	9287	O2	C	A	443	136.961	80.999	52.641	1.00113.75		A16S
ATOM	9288	N3	C	A	443	136.668	81.859	50.577	1.00113.75		A16S
ATOM	9289	C4	C	A	443	136.901	81.756	49.272	1.00113.75		A16S
ATOM	9290	N4	C	A	443	136.416	82.711	48.478	1.00113.75		A16S
ATOM	9291	C5	C	A	443	137.647	80.672	48.721	1.00113.75		A16S
ATOM	9292	C2*	C	A	443	137.437	77.700	52.086	1.00	90.87	A16S
ATOM	9293	O2*	C	A	443	137.498	77.272	53.432	1.00	90.87	A16S
ATOM	9294	C3*	C	A	443	137.969	76.648	51.130	1.00	90.87	A16S
ATOM	9295	O3*	C	A	443	137.598	75.349	51.538	1.00	90.87	A16S
ATOM	9296	P	C	A	444	136.140	74.800	51.162	1.00	84.52	A16S
ATOM	9297	O1P	C	A	444	136.039	73.412	51.672	1.00108.87		A16S
ATOM	9298	O2P	C	A	444	135.897	75.067	49.724	1.00108.87		A16S
ATOM	9299	O5*	C	A	444	135.159	75.733	52.001	1.00	84.52	A16S
ATOM	9300	C5*	C	A	444	135.000	75.550	53.422	1.00	84.52	A16S
ATOM	9301	C4*	C	A	444	133.818	76.341	53.920	1.00	84.52	A16S
ATOM	9302	O4*	C	A	444	134.112	77.755	53.817	1.00	84.52	A16S
ATOM	9303	C1*	C	A	444	132.938	78.459	53.428	1.00	84.52	A16S
ATOM	9304	N1	C	A	444	133.180	79.106	52.116	1.00108.87		A16S
ATOM	9305	C6	C	A	444	134.252	78.750	51.343	1.00108.87		A16S
ATOM	9306	C2	C	A	444	132.276	80.086	51.661	1.00108.87		A16S
ATOM	9307	O2	C	A	444	131.324	80.415	52.384	1.00108.87		A16S
ATOM	9308	N3	C	A	444	132.466	80.644	50.449	1.00108.87		A16S
ATOM	9309	C4	C	A	444	133.506	80.275	49.702	1.00108.87		A16S
ATOM	9310	N4	C	A	444	133.644	80.841	48.509	1.00108.87		A16S



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ATOM	9311	C5	C	A	444	134.450	79.304	50.144	1.00108.87	A16S
ATOM	9312	C2*	C	A	444	131.792	77.447	53.350	1.00 84.52	A16S
ATOM	9313	O2*	C	A	444	131.037	77.428	54.545	1.00 84.52	A16S
ATOM	9314	C3*	C	A	444	132.549	76.155	53.110	1.00 84.52	A16S
ATOM	9315	O3*	C	A	444	131.798	75.039	53.518	1.00 84.52	A16S
ATOM	9316	P	G	A	445	130.696	74.434	52.525	1.00 88.30	A16S
ATOM	9317	O1P	G	A	445	130.126	73.236	53.203	1.00111.87	A16S
ATOM	9318	O2P	G	A	445	131.307	74.295	51.175	1.00111.87	A16S
ATOM	9319	O5*	G	A	445	129.576	75.562	52.457	1.00 88.30	A16S
ATOM	9320	C5*	G	A	445	128.773	75.839	53.601	1.00 88.30	A16S
ATOM	9321	C4*	G	A	445	127.747	76.883	53.279	1.00 88.30	A16S
ATOM	9322	O4*	G	A	445	128.403	78.135	52.960	1.00 88.30	A16S
ATOM	9323	C1*	G	A	445	127.600	78.866	52.048	1.00 88.30	A16S
ATOM	9324	N9	G	A	445	128.374	79.151	50.843	1.00111.87	A16S
ATOM	9325	C4	G	A	445	127.999	79.996	49.821	1.00111.87	A16S
ATOM	9326	N3	G	A	445	126.871	80.739	49.776	1.00111.87	A16S
ATOM	9327	C2	G	A	445	126.778	81.432	48.657	1.00111.87	A16S
ATOM	9328	N2	G	A	445	125.730	82.234	48.452	1.00111.87	A16S
ATOM	9329	N1	G	A	445	127.708	81.389	47.658	1.00111.87	A16S
ATOM	9330	C6	G	A	445	128.870	80.628	47.677	1.00111.87	A16S
ATOM	9331	O6	G	A	445	129.631	80.648	46.707	1.00111.87	A16S
ATOM	9332	C5	G	A	445	128.995	79.895	48.880	1.00111.87	A16S
ATOM	9333	N7	G	A	445	129.996	79.033	49.310	1.00111.87	A16S
ATOM	9334	C8	G	A	445	129.587	78.620	50.479	1.00111.87	A16S
ATOM	9335	C2*	G	A	445	126.365	78.017	51.731	1.00 88.30	A16S
ATOM	9336	O2*	G	A	445	125.293	78.435	52.549	1.00 88.30	A16S
ATOM	9337	C3*	G	A	445	126.843	76.617	52.088	1.00 88.30	A16S
ATOM	9338	O3*	G	A	445	125.751	75.776	52.432	1.00 88.30	A16S
ATOM	9339	P	G	A	446	124.928	75.019	51.272	1.00 84.90	A16S
ATOM	9340	O1P	G	A	446	123.828	74.257	51.926	1.00109.97	A16S
ATOM	9341	O2P	G	A	446	125.887	74.304	50.380	1.00109.97	A16S
ATOM	9342	O5*	G	A	446	124.252	76.201	50.450	1.00 84.90	A16S
ATOM	9343	C5*	G	A	446	123.149	76.933	51.006	1.00 84.90	A16S
ATOM	9344	C4*	G	A	446	122.597	77.902	49.992	1.00 84.90	A16S
ATOM	9345	O4*	G	A	446	123.593	78.908	49.687	1.00 84.90	A16S
ATOM	9346	C1*	G	A	446	123.490	79.281	48.330	1.00 84.90	A16S
ATOM	9347	N9	G	A	446	124.757	78.984	47.679	1.00109.97	A16S
ATOM	9348	C4	G	A	446	125.191	79.514	46.499	1.00109.97	A16S
ATOM	9349	N3	G	A	446	124.526	80.415	45.749	1.00109.97	A16S
ATOM	9350	C2	G	A	446	125.196	80.741	44.660	1.00109.97	A16S
ATOM	9351	N2	G	A	446	124.679	81.636	43.807	1.00109.97	A16S
ATOM	9352	N1	G	A	446	126.422	80.215	44.330	1.00109.97	A16S
ATOM	9353	C6	G	A	446	127.125	79.284	45.090	1.00109.97	A16S
ATOM	9354	O6	G	A	446	128.226	78.871	44.702	1.00109.97	A16S
ATOM	9355	C5	G	A	446	126.417	78.934	46.266	1.00109.97	A16S
ATOM	9356	N7	G	A	446	126.751	78.061	47.290	1.00109.97	A16S
ATOM	9357	C8	G	A	446	125.737	78.123	48.105	1.00109.97	A16S
ATOM	9358	C2*	G	A	446	122.333	78.500	47.713	1.00 84.90	A16S
ATOM	9359	O2*	G	A	446	121.164	79.293	47.725	1.00 84.90	A16S
ATOM	9360	C3*	G	A	446	122.233	77.304	48.649	1.00 84.90	A16S
ATOM	9361	O3*	G	A	446	120.927	76.759	48.663	1.00 84.90	A16S
ATOM	9362	P	G	A	447	120.541	75.628	47.597	1.00100.74	A16S
ATOM	9363	O1P	G	A	447	119.052	75.544	47.511	1.00106.43	A16S
ATOM	9364	O2P	G	A	447	121.340	74.407	47.914	1.00106.43	A16S
ATOM	9365	O5*	G	A	447	121.074	76.226	46.221	1.00100.74	A16S
ATOM	9366	C5*	G	A	447	120.393	77.319	45.571	1.00100.74	A16S
ATOM	9367	C4*	G	A	447	121.013	77.584	44.220	1.00100.74	A16S
ATOM	9368	O4*	G	A	447	122.327	78.173	44.381	1.00100.74	A16S
ATOM	9369	C1*	G	A	447	123.198	77.680	43.380	1.00100.74	A16S
ATOM	9370	N9	G	A	447	124.280	76.964	44.046	1.00106.43	A16S
ATOM	9371	C4	G	A	447	125.545	76.741	43.558	1.00106.43	A16S
ATOM	9372	N3	G	A	447	126.027	77.177	42.377	1.00106.43	A16S
ATOM	9373	C2	G	A	447	127.278	76.792	42.180	1.00106.43	A16S
ATOM	9374	N2	G	A	447	127.918	77.147	41.053	1.00106.43	A16S
ATOM	9375	N1	G	A	447	127.998	76.033	43.073	1.00106.43	A16S
ATOM	9376	C6	G	A	447	127.523	75.571	44.295	1.00106.43	A16S
ATOM	9377	O6	G	A	447	128.259	74.886	45.026	1.00106.43	A16S
ATOM	9378	C5	G	A	447	126.180	75.985	44.521	1.00106.43	A16S
ATOM	9379	N7	G	A	447	125.338	75.757	45.599	1.00106.43	A16S
ATOM	9380	C8	G	A	447	124.227	76.358	45.276	1.00106.43	A16S
ATOM	9381	C2*	G	A	447	122.385	76.768	42.458	1.00100.74	A16S
ATOM	9382	O2*	G	A	447	121.996	77.492	41.313	1.00100.74	A16S
ATOM	9383	C3*	G	A	447	121.236	76.344	43.371	1.00100.74	A16S
ATOM	9384	O3*	G	A	447	120.006	75.978	42.745	1.00100.74	A16S
ATOM	9385	P	A	A	448	119.985	74.947	41.509	1.00 85.51	A16S
ATOM	9386	O1P	A	A	448	118.639	74.319	41.508	1.00 85.46	A16S
ATOM	9387	O2P	A	A	448	121.183	74.095	41.504	1.00 85.46	A16S



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ATOM	9388	O5*	A	A	448	120.017	75.925	40.257	1.00	85.51	A16S
ATOM	9389	C5*	A	A	448	119.231	77.124	40.314	1.00	85.51	A16S
ATOM	9390	C4*	A	A	448	119.405	77.954	39.080	1.00	85.51	A16S
ATOM	9391	O4*	A	A	448	120.756	78.444	38.959	1.00	85.51	A16S
ATOM	9392	C1*	A	A	448	120.952	78.854	37.628	1.00	85.51	A16S
ATOM	9393	N9	A	A	448	122.291	78.488	37.185	1.00	85.46	A16S
ATOM	9394	C4	A	A	448	122.894	79.034	36.081	1.00	85.46	A16S
ATOM	9395	N3	A	A	448	122.384	79.967	35.254	1.00	85.46	A16S
ATOM	9396	C2	A	A	448	123.249	80.256	34.290	1.00	85.46	A16S
ATOM	9397	N1	A	A	448	124.468	79.750	34.070	1.00	85.46	A16S
ATOM	9398	C6	A	A	448	124.939	78.808	34.917	1.00	85.46	A16S
ATOM	9399	N6	A	A	448	126.139	78.286	34.689	1.00	85.46	A16S
ATOM	9400	C5	A	A	448	124.127	78.426	35.988	1.00	85.46	A16S
ATOM	9401	N7	A	A	448	124.307	77.516	37.020	1.00	85.46	A16S
ATOM	9402	C8	A	A	448	123.190	77.591	37.702	1.00	85.46	A16S
ATOM	9403	C2*	A	A	448	119.833	78.244	36.781	1.00	85.51	A16S
ATOM	9404	O2*	A	A	448	118.973	79.293	36.409	1.00	85.51	A16S
ATOM	9405	C3*	A	A	448	119.174	77.273	37.757	1.00	85.51	A16S
ATOM	9406	O3*	A	A	448	117.790	77.175	37.522	1.00	85.51	A16S
ATOM	9407	P	C	A	449	117.264	76.355	36.256	1.00	69.37	A16S
ATOM	9408	O1P	C	A	449	115.826	76.042	36.480	1.00	78.87	A16S
ATOM	9409	O2P	C	A	449	118.226	75.251	35.984	1.00	78.87	A16S
ATOM	9410	O5*	C	A	449	117.345	77.413	35.068	1.00	69.37	A16S
ATOM	9411	C5*	C	A	449	116.539	78.594	35.101	1.00	69.37	A16S
ATOM	9412	C4*	C	A	449	116.938	79.540	33.998	1.00	69.37	A16S
ATOM	9413	O4*	C	A	449	118.323	79.943	34.143	1.00	69.37	A16S
ATOM	9414	C1*	C	A	449	118.875	80.212	32.868	1.00	69.37	A16S
ATOM	9415	N1	C	A	449	120.093	79.398	32.702	1.00	78.87	A16S
ATOM	9416	C6	C	A	449	120.322	78.316	33.505	1.00	78.87	A16S
ATOM	9417	C2	C	A	449	121.025	79.749	31.707	1.00	78.87	A16S
ATOM	9418	O2	C	A	449	120.798	80.735	30.976	1.00	78.87	A16S
ATOM	9419	N3	C	A	449	122.146	79.003	31.566	1.00	78.87	A16S
ATOM	9420	C4	C	A	449	122.353	77.950	32.361	1.00	78.87	A16S
ATOM	9421	N4	C	A	449	123.471	77.246	32.192	1.00	78.87	A16S
ATOM	9422	C5	C	A	449	121.424	77.573	33.369	1.00	78.87	A16S
ATOM	9423	C2*	C	A	449	117.783	79.954	31.825	1.00	69.37	A16S
ATOM	9424	O2*	C	A	449	117.170	81.192	31.508	1.00	69.37	A16S
ATOM	9425	C3*	C	A	449	116.844	79.018	32.581	1.00	69.37	A16S
ATOM	9426	O3*	C	A	449	115.501	79.087	32.129	1.00	69.37	A16S
ATOM	9427	P	G	A	450	114.718	77.727	31.788	1.00	71.13	A16S
ATOM	9428	O1P	G	A	450	113.292	78.042	31.429	1.00	75.32	A16S
ATOM	9429	O2P	G	A	450	115.002	76.777	32.906	1.00	75.32	A16S
ATOM	9430	O5*	G	A	450	115.481	77.201	30.489	1.00	71.13	A16S
ATOM	9431	C5*	G	A	450	115.589	78.026	29.311	1.00	71.13	A16S
ATOM	9432	C4*	G	A	450	116.846	77.692	28.534	1.00	71.13	A16S
ATOM	9433	O4*	G	A	450	118.015	77.928	29.362	1.00	71.13	A16S
ATOM	9434	C1*	G	A	450	119.045	77.031	28.996	1.00	71.13	A16S
ATOM	9435	N9	G	A	450	119.392	76.236	30.165	1.00	75.32	A16S
ATOM	9436	C4	G	A	450	120.548	75.518	30.358	1.00	75.32	A16S
ATOM	9437	N3	G	A	450	121.603	75.473	29.521	1.00	75.32	A16S
ATOM	9438	C2	G	A	450	122.562	74.677	29.974	1.00	75.32	A16S
ATOM	9439	N2	G	A	450	123.696	74.536	29.275	1.00	75.32	A16S
ATOM	9440	N1	G	A	450	122.482	73.967	31.142	1.00	75.32	A16S
ATOM	9441	C6	G	A	450	121.403	73.988	32.015	1.00	75.32	A16S
ATOM	9442	O6	G	A	450	121.424	73.287	33.035	1.00	75.32	A16S
ATOM	9443	C5	G	A	450	120.375	74.862	31.554	1.00	75.32	A16S
ATOM	9444	N7	G	A	450	119.154	75.194	32.123	1.00	75.32	A16S
ATOM	9445	C8	G	A	450	118.612	76.017	31.268	1.00	75.32	A16S
ATOM	9446	C2*	G	A	450	118.512	76.145	27.866	1.00	71.13	A16S
ATOM	9447	O2*	G	A	450	118.890	76.643	26.599	1.00	71.13	A16S
ATOM	9448	C3*	G	A	450	117.010	76.259	28.052	1.00	71.13	A16S
ATOM	9449	O3*	G	A	450	116.374	76.033	26.806	1.00	71.13	A16S
ATOM	9450	P	A	A	451	116.017	74.532	26.363	1.00	67.18	A16S
ATOM	9451	O1P	A	A	451	117.129	73.679	26.830	1.00	85.51	A16S
ATOM	9452	O2P	A	A	451	115.623	74.511	24.922	1.00	85.51	A16S
ATOM	9453	O5*	A	A	451	114.729	74.179	27.231	1.00	67.18	A16S
ATOM	9454	C5*	A	A	451	113.395	74.543	26.794	1.00	67.18	A16S
ATOM	9455	C4*	A	A	451	112.411	74.365	27.935	1.00	67.18	A16S
ATOM	9456	O4*	A	A	451	112.458	72.979	28.357	1.00	67.18	A16S
ATOM	9457	C1*	A	A	451	112.899	72.895	29.696	1.00	67.18	A16S
ATOM	9458	N9	A	A	451	113.934	71.875	29.746	1.00	85.51	A16S
ATOM	9459	C4	A	A	451	114.205	71.039	30.791	1.00	85.51	A16S
ATOM	9460	N3	A	A	451	113.560	70.972	31.964	1.00	85.51	A16S
ATOM	9461	C2	A	A	451	114.108	70.047	32.739	1.00	85.51	A16S
ATOM	9462	N1	A	A	451	115.151	69.246	32.490	1.00	85.51	A16S
ATOM	9463	C6	A	A	451	115.774	69.349	31.293	1.00	85.51	A16S
ATOM	9464	N6	A	A	451	116.821	68.559	31.032	1.00	85.51	A16S



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ATOM	9465	C5	A	A 451	115.287	70.283	30.391	1.00	85.51	A16S
ATOM	9466	N7	A	A 451	115.683	70.626	29.111	1.00	85.51	A16S
ATOM	9467	C8	A	A 451	114.848	71.569	28.772	1.00	85.51	A16S
ATOM	9468	C2*	A	A 451	113.493	74.252	30.066	1.00	67.18	A16S
ATOM	9469	O2*	A	A 451	113.359	74.485	31.454	1.00	67.18	A16S
ATOM	9470	C3*	A	A 451	112.699	75.206	29.177	1.00	67.18	A16S
ATOM	9471	O3*	A	A 451	111.471	75.549	29.810	1.00	67.18	A16S
ATOM	9472	P	A	A 452	110.785	76.964	29.524	1.00	78.59	A16S
ATOM	9473	O1P	A	A 452	111.753	77.856	28.855	1.00	85.12	A16S
ATOM	9474	O2P	A	A 452	110.182	77.379	30.810	1.00	85.12	A16S
ATOM	9475	O5*	A	A 452	109.638	76.594	28.486	1.00	78.59	A16S
ATOM	9476	C5*	A	A 452	108.491	75.846	28.914	1.00	78.59	A16S
ATOM	9477	C4*	A	A 452	107.993	74.936	27.810	1.00	78.59	A16S
ATOM	9478	O4*	A	A 452	109.015	73.961	27.460	1.00	78.59	A16S
ATOM	9479	C1*	A	A 452	108.494	72.657	27.615	1.00	78.59	A16S
ATOM	9480	N9	A	A 452	109.589	71.746	27.941	1.00	85.12	A16S
ATOM	9481	C4	A	A 452	110.331	71.096	26.995	1.00	85.12	A16S
ATOM	9482	N3	A	A 452	110.189	71.181	25.665	1.00	85.12	A16S
ATOM	9483	C2	A	A 452	111.062	70.391	25.055	1.00	85.12	A16S
ATOM	9484	N1	A	A 452	112.000	69.597	25.585	1.00	85.12	A16S
ATOM	9485	C6	A	A 452	112.130	69.558	26.929	1.00	85.12	A16S
ATOM	9486	N6	A	A 452	113.097	68.808	27.456	1.00	85.12	A16S
ATOM	9487	C5	A	A 452	111.245	70.328	27.690	1.00	85.12	A16S
ATOM	9488	N7	A	A 452	111.086	70.492	29.056	1.00	85.12	A16S
ATOM	9489	C8	A	A 452	110.095	71.345	29.154	1.00	85.12	A16S
ATOM	9490	C2*	A	A 452	107.360	72.783	28.627	1.00	78.59	A16S
ATOM	9491	O2*	A	A 452	106.451	71.709	28.556	1.00	78.59	A16S
ATOM	9492	C3*	A	A 452	106.764	74.119	28.208	1.00	78.59	A16S
ATOM	9493	O3*	A	A 452	105.945	73.922	27.059	1.00	78.59	A16S
ATOM	9494	P	A	A 453	104.362	73.709	27.230	1.00	71.78	A16S
ATOM	9495	O1P	A	A 453	103.753	75.061	27.287	1.00	76.49	A16S
ATOM	9496	O2P	A	A 453	104.126	72.740	28.342	1.00	76.49	A16S
ATOM	9497	O5*	A	A 453	103.923	73.050	25.849	1.00	71.78	A16S
ATOM	9498	C5*	A	A 453	103.896	71.621	25.683	1.00	71.78	A16S
ATOM	9499	C4*	A	A 453	104.874	71.208	24.615	1.00	71.78	A16S
ATOM	9500	O4*	A	A 453	106.224	71.312	25.123	1.00	71.78	A16S
ATOM	9501	C1*	A	A 453	107.019	70.286	24.565	1.00	71.78	A16S
ATOM	9502	N9	A	A 453	107.593	69.511	25.661	1.00	76.49	A16S
ATOM	9503	C4	A	A 453	108.445	68.444	25.537	1.00	76.49	A16S
ATOM	9504	N3	A	A 453	108.882	67.881	24.401	1.00	76.49	A16S
ATOM	9505	C2	A	A 453	109.717	66.885	24.669	1.00	76.49	A16S
ATOM	9506	N1	A	A 453	110.133	66.422	25.853	1.00	76.49	A16S
ATOM	9507	C6	A	A 453	109.668	67.011	26.974	1.00	76.49	A16S
ATOM	9508	N6	A	A 453	110.078	66.552	28.158	1.00	76.49	A16S
ATOM	9509	C5	A	A 453	108.775	68.077	26.825	1.00	76.49	A16S
ATOM	9510	N7	A	A 453	108.120	68.877	27.747	1.00	76.49	A16S
ATOM	9511	C8	A	A 453	107.428	69.701	27.006	1.00	76.49	A16S
ATOM	9512	C2*	A	A 453	106.142	69.459	23.625	1.00	71.78	A16S
ATOM	9513	O2*	A	A 453	106.340	69.883	22.288	1.00	71.78	A16S
ATOM	9514	C3*	A	A 453	104.751	69.772	24.155	1.00	71.78	A16S
ATOM	9515	O3*	A	A 453	103.761	69.699	23.152	1.00	71.78	A16S
ATOM	9516	P	C	A 454	102.538	68.684	23.333	1.00	77.88	A16S
ATOM	9517	O1P	C	A 454	101.521	68.975	22.279	1.00	83.98	A16S
ATOM	9518	O2P	C	A 454	102.144	68.709	24.767	1.00	83.98	A16S
ATOM	9519	O5*	C	A 454	103.190	67.273	22.993	1.00	77.88	A16S
ATOM	9520	C5*	C	A 454	103.567	66.976	21.649	1.00	77.88	A16S
ATOM	9521	C4*	C	A 454	104.453	65.769	21.605	1.00	77.88	A16S
ATOM	9522	O4*	C	A 454	105.693	66.032	22.299	1.00	77.88	A16S
ATOM	9523	C1*	C	A 454	106.180	64.832	22.862	1.00	77.88	A16S
ATOM	9524	N1	C	A 454	106.377	65.023	24.306	1.00	83.98	A16S
ATOM	9525	C6	C	A 454	105.523	65.805	25.034	1.00	83.98	A16S
ATOM	9526	C2	C	A 454	107.462	64.380	24.933	1.00	83.98	A16S
ATOM	9527	O2	C	A 454	108.225	63.660	24.255	1.00	83.98	A16S
ATOM	9528	N3	C	A 454	107.649	64.554	26.262	1.00	83.98	A16S
ATOM	9529	C4	C	A 454	106.805	65.319	26.963	1.00	83.98	A16S
ATOM	9530	N4	C	A 454	107.030	65.458	28.280	1.00	83.98	A16S
ATOM	9531	C5	C	A 454	105.695	65.976	26.351	1.00	83.98	A16S
ATOM	9532	C2*	C	A 454	105.174	63.728	22.541	1.00	77.88	A16S
ATOM	9533	O2*	C	A 454	105.633	63.047	21.391	1.00	77.88	A16S
ATOM	9534	C3*	C	A 454	103.907	64.527	22.268	1.00	77.88	A16S
ATOM	9535	O3*	C	A 454	103.015	63.848	21.397	1.00	77.88	A16S
ATOM	9536	P	C	A 455	101.495	63.605	21.856	1.00	78.49	A16S
ATOM	9537	O1P	C	A 455	100.867	62.694	20.861	1.00	94.66	A16S
ATOM	9538	O2P	C	A 455	100.877	64.928	22.137	1.00	94.66	A16S
ATOM	9539	O5*	C	A 455	101.639	62.836	23.240	1.00	78.49	A16S
ATOM	9540	C5*	C	A 455	102.252	61.543	23.302	1.00	78.49	A16S
ATOM	9541	C4*	C	A 455	102.364	61.106	24.735	1.00	78.49	A16S



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ATOM	9542	O4*	C	A	455	103.282	61.993	25.414	1.00	78.49	A16S
ATOM	9543	C1*	C	A	455	102.822	62.239	26.730	1.00	78.49	A16S
ATOM	9544	N1	C	A	455	102.563	63.683	26.855	1.00	94.66	A16S
ATOM	9545	C6	C	A	455	102.000	64.387	25.825	1.00	94.66	A16S
ATOM	9546	C2	C	A	455	102.904	64.330	28.049	1.00	94.66	A16S
ATOM	9547	O2	C	A	455	103.405	63.670	28.973	1.00	94.66	A16S
ATOM	9548	N3	C	A	455	102.680	65.657	28.167	1.00	94.66	A16S
ATOM	9549	C4	C	A	455	102.140	66.335	27.153	1.00	94.66	A16S
ATOM	9550	N4	C	A	455	101.952	67.648	27.313	1.00	94.66	A16S
ATOM	9551	C5	C	A	455	101.773	65.699	25.931	1.00	94.66	A16S
ATOM	9552	C2*	C	A	455	101.569	61.392	26.959	1.00	78.49	A16S
ATOM	9553	O2*	C	A	455	101.916	60.174	27.588	1.00	78.49	A16S
ATOM	9554	C3*	C	A	455	101.074	61.206	25.534	1.00	78.49	A16S
ATOM	9555	O3*	C	A	455	100.255	60.064	25.380	1.00	78.49	A16S
ATOM	9556	P	C	A	456	98.667	60.244	25.333	1.00	101.04	A16S
ATOM	9557	O1P	C	A	456	98.078	58.974	24.837	1.00	124.23	A16S
ATOM	9558	O2P	C	A	456	98.377	61.513	24.628	1.00	124.23	A16S
ATOM	9559	O5*	C	A	456	98.283	60.444	26.861	1.00	101.04	A16S
ATOM	9560	C5*	C	A	456	98.452	59.373	27.796	1.00	101.04	A16S
ATOM	9561	C4*	C	A	456	98.019	59.815	29.166	1.00	101.04	A16S
ATOM	9562	O4*	C	A	456	98.927	60.837	29.636	1.00	101.04	A16S
ATOM	9563	C1*	C	A	456	98.209	61.814	30.364	1.00	101.04	A16S
ATOM	9564	N1	C	A	456	98.429	63.113	29.712	1.00	124.23	A16S
ATOM	9565	C6	C	A	456	98.705	63.192	28.373	1.00	124.23	A16S
ATOM	9566	C2	C	A	456	98.363	64.274	30.488	1.00	124.23	A16S
ATOM	9567	O2	C	A	456	98.093	64.174	31.700	1.00	124.23	A16S
ATOM	9568	N3	C	A	456	98.594	65.471	29.904	1.00	124.23	A16S
ATOM	9569	C4	C	A	456	98.877	65.534	28.601	1.00	124.23	A16S
ATOM	9570	N4	C	A	456	99.108	66.734	28.072	1.00	124.23	A16S
ATOM	9571	C5	C	A	456	98.936	64.369	27.784	1.00	124.23	A16S
ATOM	9572	C2*	C	A	456	96.742	61.381	30.428	1.00	101.04	A16S
ATOM	9573	O2*	C	A	456	96.496	60.717	31.653	1.00	101.04	A16S
ATOM	9574	C3*	C	A	456	96.643	60.454	29.223	1.00	101.04	A16S
ATOM	9575	O3*	C	A	456	95.633	59.466	29.371	1.00	101.04	A16S
ATOM	9576	P	C	A	457	94.169	59.740	28.776	1.00	98.54	A16S
ATOM	9577	O1P	C	A	457	93.353	58.523	29.039	1.00	138.08	A16S
ATOM	9578	O2P	C	A	457	94.314	60.234	27.383	1.00	138.08	A16S
ATOM	9579	O5*	C	A	457	93.638	60.938	29.683	1.00	98.54	A16S
ATOM	9580	C5*	C	A	457	93.382	60.734	31.084	1.00	98.54	A16S
ATOM	9581	C4*	C	A	457	92.843	61.995	31.710	1.00	98.54	A16S
ATOM	9582	O4*	C	A	457	93.911	62.961	31.860	1.00	98.54	A16S
ATOM	9583	C1*	C	A	457	93.403	64.265	31.638	1.00	98.54	A16S
ATOM	9584	N1	C	A	457	94.117	64.841	30.483	1.00	138.08	A16S
ATOM	9585	C6	C	A	457	94.601	64.034	29.490	1.00	138.08	A16S
ATOM	9586	C2	C	A	457	94.286	66.233	30.408	1.00	138.08	A16S
ATOM	9587	O2	C	A	457	93.847	66.948	31.323	1.00	138.08	A16S
ATOM	9588	N3	C	A	457	94.923	66.760	29.339	1.00	138.08	A16S
ATOM	9589	C4	C	A	457	95.383	65.960	28.373	1.00	138.08	A16S
ATOM	9590	N4	C	A	457	95.998	66.522	27.334	1.00	138.08	A16S
ATOM	9591	C5	C	A	457	95.231	64.546	28.429	1.00	138.08	A16S
ATOM	9592	C2*	C	A	457	91.893	64.153	31.395	1.00	98.54	A16S
ATOM	9593	O2*	C	A	457	91.162	64.421	32.580	1.00	98.54	A16S
ATOM	9594	C3*	C	A	457	91.764	62.713	30.915	1.00	98.54	A16S
ATOM	9595	O3*	C	A	457	90.470	62.168	31.143	1.00	98.54	A16S
ATOM	9596	P	C	A	458	89.328	62.334	30.022	1.00	96.86	A16S
ATOM	9597	O1P	C	A	458	88.193	61.465	30.428	1.00	140.21	A16S
ATOM	9598	O2P	C	A	458	89.923	62.170	28.667	1.00	140.21	A16S
ATOM	9599	O5*	C	A	458	88.870	63.854	30.179	1.00	96.86	A16S
ATOM	9600	C5*	C	A	458	88.146	64.298	31.347	1.00	96.86	A16S
ATOM	9601	C4*	C	A	458	87.735	65.741	31.190	1.00	96.86	A16S
ATOM	9602	O4*	C	A	458	88.907	66.590	31.271	1.00	96.86	A16S
ATOM	9603	C1*	C	A	458	88.772	67.677	30.365	1.00	96.86	A16S
ATOM	9604	N1	C	A	458	89.904	67.653	29.412	1.00	140.21	A16S
ATOM	9605	C6	C	A	458	90.707	66.551	29.303	1.00	140.21	A16S
ATOM	9606	C2	C	A	458	90.143	68.782	28.606	1.00	140.21	A16S
ATOM	9607	O2	C	A	458	89.407	69.777	28.719	1.00	140.21	A16S
ATOM	9608	N3	C	A	458	91.170	68.754	27.723	1.00	140.21	A16S
ATOM	9609	C4	C	A	458	91.940	67.667	27.626	1.00	140.21	A16S
ATOM	9610	N4	C	A	458	92.930	67.677	26.735	1.00	140.21	A16S
ATOM	9611	C5	C	A	458	91.725	66.517	28.434	1.00	140.21	A16S
ATOM	9612	C2*	C	A	458	87.408	67.558	29.681	1.00	96.86	A16S
ATOM	9613	O2*	C	A	458	86.482	68.420	30.309	1.00	96.86	A16S
ATOM	9614	C3*	C	A	458	87.094	66.078	29.855	1.00	96.86	A16S
ATOM	9615	O3*	C	A	458	85.698	65.827	29.865	1.00	96.86	A16S
ATOM	9616	P	G	A	459	84.988	65.243	28.548	1.00	98.81	A16S
ATOM	9617	O1P	G	A	459	83.532	65.153	28.805	1.00	112.99	A16S
ATOM	9618	O2P	G	A	459	85.741	64.022	28.152	1.00	112.99	A16S



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ATOM	9619	O5*	G	A	459	85.208	66.366	27.439	1.00	98.81	A16S
ATOM	9620	C5*	G	A	459	84.735	67.706	27.643	1.00	98.81	A16S
ATOM	9621	C4*	G	A	459	85.376	68.655	26.653	1.00	98.81	A16S
ATOM	9622	O4*	G	A	459	86.783	68.844	26.955	1.00	98.81	A16S
ATOM	9623	C1*	G	A	459	87.502	69.044	25.746	1.00	98.81	A16S
ATOM	9624	N9	G	A	459	88.524	68.005	25.621	1.00112.99		A16S
ATOM	9625	C4	G	A	459	89.445	67.876	24.600	1.00112.99		A16S
ATOM	9626	N3	G	A	459	89.561	68.686	23.527	1.00112.99		A16S
ATOM	9627	C2	G	A	459	90.542	68.309	22.728	1.00112.99		A16S
ATOM	9628	N2	G	A	459	90.807	69.012	21.622	1.00112.99		A16S
ATOM	9629	N1	G	A	459	91.338	67.219	22.956	1.00112.99		A16S
ATOM	9630	C6	G	A	459	91.234	66.368	24.049	1.00112.99		A16S
ATOM	9631	O6	G	A	459	92.001	65.404	24.153	1.00112.99		A16S
ATOM	9632	C5	G	A	459	90.192	66.766	24.921	1.00112.99		A16S
ATOM	9633	N7	G	A	459	89.751	66.200	26.109	1.00112.99		A16S
ATOM	9634	C8	G	A	459	88.764	66.965	26.487	1.00112.99		A16S
ATOM	9635	C2*	G	A	459	86.496	69.013	24.589	1.00	98.81	A16S
ATOM	9636	O2*	G	A	459	86.106	70.327	24.224	1.00	98.81	A16S
ATOM	9637	C3*	G	A	459	85.347	68.222	25.196	1.00	98.81	A16S
ATOM	9638	O3*	G	A	459	84.127	68.558	24.566	1.00	98.81	A16S
ATOM	9639	P	A	A	460	83.094	67.399	24.186	1.00	98.39	A16S
ATOM	9640	O1P	A	A	460	81.870	68.053	23.659	1.00132.25		A16S
ATOM	9641	O2P	A	A	460	83.007	66.471	25.353	1.00132.25		A16S
ATOM	9642	O5*	A	A	460	83.767	66.631	22.972	1.00	98.39	A16S
ATOM	9643	C5*	A	A	460	84.965	65.870	23.152	1.00	98.39	A16S
ATOM	9644	C4*	A	A	460	85.275	65.131	21.888	1.00	98.39	A16S
ATOM	9645	O4*	A	A	460	84.689	65.870	20.801	1.00	98.39	A16S
ATOM	9646	C1*	A	A	460	85.592	65.931	19.726	1.00	98.39	A16S
ATOM	9647	N9	A	A	460	85.777	67.350	19.386	1.00132.25		A16S
ATOM	9648	C4	A	A	460	86.213	67.886	18.193	1.00132.25		A16S
ATOM	9649	N3	A	A	460	86.630	67.227	17.099	1.00132.25		A16S
ATOM	9650	C2	A	A	460	86.958	68.080	16.125	1.00132.25		A16S
ATOM	9651	N1	A	A	460	86.917	69.415	16.118	1.00132.25		A16S
ATOM	9652	C6	A	A	460	86.488	70.050	17.228	1.00132.25		A16S
ATOM	9653	N6	A	A	460	86.439	71.383	17.215	1.00132.25		A16S
ATOM	9654	C5	A	A	460	86.116	69.258	18.338	1.00132.25		A16S
ATOM	9655	N7	A	A	460	85.657	69.585	19.606	1.00132.25		A16S
ATOM	9656	C8	A	A	460	85.485	68.427	20.190	1.00132.25		A16S
ATOM	9657	C2*	A	A	460	86.814	65.060	20.073	1.00	98.39	A16S
ATOM	9658	O2*	A	A	460	86.649	63.770	19.516	1.00	98.39	A16S
ATOM	9659	C3*	A	A	460	86.757	64.992	21.596	1.00	98.39	A16S
ATOM	9660	O3*	A	A	460	87.184	63.706	22.069	1.00	98.39	A16S
ATOM	9661	P	C	A	461	88.711	63.464	22.511	1.00123.87		A16S
ATOM	9662	O1P	C	A	461	88.764	62.162	23.226	1.00139.82		A16S
ATOM	9663	O2P	C	A	461	89.187	64.683	23.195	1.00139.82		A16S
ATOM	9664	O5*	C	A	461	89.497	63.314	21.132	1.00123.87		A16S
ATOM	9665	C5*	C	A	461	90.139	64.448	20.490	1.00123.87		A16S
ATOM	9666	C4*	C	A	461	91.645	64.274	20.519	1.00123.87		A16S
ATOM	9667	O4*	C	A	461	91.947	62.864	20.408	1.00123.87		A16S
ATOM	9668	C1*	C	A	461	92.782	62.635	19.294	1.00123.87		A16S
ATOM	9669	N1	C	A	461	92.362	61.352	18.693	1.00139.82		A16S
ATOM	9670	C6	C	A	461	91.166	61.242	18.034	1.00139.82		A16S
ATOM	9671	C2	C	A	461	93.201	60.225	18.832	1.00139.82		A16S
ATOM	9672	O2	C	A	461	94.295	60.346	19.416	1.00139.82		A16S
ATOM	9673	N3	C	A	461	92.794	59.036	18.326	1.00139.82		A16S
ATOM	9674	C4	C	A	461	91.614	58.941	17.703	1.00139.82		A16S
ATOM	9675	N4	C	A	461	91.245	57.743	17.239	1.00139.82		A16S
ATOM	9676	C5	C	A	461	90.756	60.069	17.531	1.00139.82		A16S
ATOM	9677	C2*	C	A	461	92.674	63.877	18.401	1.00123.87		A16S
ATOM	9678	O2*	C	A	461	93.861	64.061	17.653	1.00123.87		A16S
ATOM	9679	C3*	C	A	461	92.449	64.985	19.431	1.00123.87		A16S
ATOM	9680	O3*	C	A	461	93.724	65.353	19.964	1.00123.87		A16S
ATOM	9681	P	G	A	462	94.182	66.897	20.010	1.00	92.05	A16S
ATOM	9682	O1P	G	A	462	95.586	66.930	19.521	1.00102.49		A16S
ATOM	9683	O2P	G	A	462	93.883	67.398	21.371	1.00102.49		A16S
ATOM	9684	O5*	G	A	462	93.238	67.660	18.965	1.00	92.05	A16S
ATOM	9685	C5*	G	A	462	93.603	67.778	17.566	1.00	92.05	A16S
ATOM	9686	C4*	G	A	462	92.921	68.977	16.910	1.00	92.05	A16S
ATOM	9687	O4*	G	A	462	91.484	68.772	16.856	1.00	92.05	A16S
ATOM	9688	C1*	G	A	462	90.817	70.025	16.941	1.00	92.05	A16S
ATOM	9689	N9	G	A	462	89.925	69.995	18.103	1.00102.49		A16S
ATOM	9690	C4	G	A	462	89.224	71.059	18.642	1.00102.49		A16S
ATOM	9691	N3	G	A	462	89.208	72.325	18.170	1.00102.49		A16S
ATOM	9692	C2	G	A	462	88.448	73.118	18.910	1.00102.49		A16S
ATOM	9693	N2	G	A	462	88.315	74.407	18.588	1.00102.49		A16S
ATOM	9694	N1	G	A	462	87.763	72.707	20.023	1.00102.49		A16S
ATOM	9695	C6	G	A	462	87.764	71.413	20.530	1.00102.49		A16S



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ATOM	9696	O6	G	A	462	87.112	71.151	21.550	1.00102.49	A16S
ATOM	9697	C5	G	A	462	88.571	70.545	19.743	1.00102.49	A16S
ATOM	9698	N7	G	A	462	88.830	69.187	19.882	1.00102.49	A16S
ATOM	9699	C8	G	A	462	89.631	68.905	18.891	1.00102.49	A16S
ATOM	9700	C2*	G	A	462	91.889	71.122	17.016	1.00 92.05	A16S
ATOM	9701	O2*	G	A	462	92.130	71.674	15.733	1.00 92.05	A16S
ATOM	9702	C3*	G	A	462	93.096	70.355	17.544	1.00 92.05	A16S
ATOM	9703	O3*	G	A	462	94.294	71.002	17.123	1.00 92.05	A16S
ATOM	9704	P	A	A	463	95.101	71.940	18.151	1.00 72.95	A16S
ATOM	9705	O1P	A	A	463	96.252	72.499	17.396	1.00109.27	A16S
ATOM	9706	O2P	A	A	463	95.343	71.184	19.408	1.00109.27	A16S
ATOM	9707	O5* A	A	A	463	94.102	73.136	18.473	1.00 72.95	A16S
ATOM	9708	C5* A	A	A	463	93.979	74.254	17.581	1.00 72.95	A16S
ATOM	9709	C4* A	A	A	463	93.079	75.309	18.181	1.00 72.95	A16S
ATOM	9710	O4* A	A	A	463	91.755	74.750	18.363	1.00 72.95	A16S
ATOM	9711	C1* A	A	A	463	91.139	75.347	19.491	1.00 72.95	A16S
ATOM	9712	N9	A	A	463	90.766	74.297	20.434	1.00109.27	A16S
ATOM	9713	C4	A	A	463	89.878	74.447	21.467	1.00109.27	A16S
ATOM	9714	N3	A	A	463	89.203	75.557	21.801	1.00109.27	A16S
ATOM	9715	C2	A	A	463	88.421	75.327	22.850	1.00109.27	A16S
ATOM	9716	N1	A	A	463	88.251	74.198	23.550	1.00109.27	A16S
ATOM	9717	C6	A	A	463	88.951	73.103	23.186	1.00109.27	A16S
ATOM	9718	N6	A	A	463	88.787	71.979	23.881	1.00109.27	A16S
ATOM	9719	C5	A	A	463	89.814	73.216	22.089	1.00109.27	A16S
ATOM	9720	N7	A	A	463	90.651	72.305	21.465	1.00109.27	A16S
ATOM	9721	C8	A	A	463	91.194	72.995	20.494	1.00109.27	A16S
ATOM	9722	C2* A	A	A	463	92.119	76.352	20.093	1.00 72.95	A16S
ATOM	9723	O2* A	A	A	463	91.797	77.649	19.629	1.00 72.95	A16S
ATOM	9724	C3* A	A	A	463	93.450	75.844	19.557	1.00 72.95	A16S
ATOM	9725	O3* A	A	A	463	94.389	76.900	19.498	1.00 72.95	A16S
ATOM	9726	P	G	A	474	95.414	77.111	20.715	1.00 70.63	A16S
ATOM	9727	O1P	G	A	474	96.087	78.420	20.516	1.00128.82	A16S
ATOM	9728	O2P	G	A	474	96.234	75.879	20.836	1.00128.82	A16S
ATOM	9729	O5* G	A	A	474	94.485	77.182	22.011	1.00 70.63	A16S
ATOM	9730	C5* G	A	A	474	93.697	78.347	22.317	1.00 70.63	A16S
ATOM	9731	C4* G	A	A	474	92.894	78.109	23.572	1.00 70.63	A16S
ATOM	9732	O4* G	A	A	474	91.896	77.088	23.321	1.00 70.63	A16S
ATOM	9733	C1* G	A	A	474	91.702	76.316	24.498	1.00 70.63	A16S
ATOM	9734	N9	G	A	474	91.991	74.918	24.210	1.00128.82	A16S
ATOM	9735	C4	G	A	474	91.629	73.845	24.985	1.00128.82	A16S
ATOM	9736	N3	G	A	474	90.912	73.900	26.126	1.00128.82	A16S
ATOM	9737	C2	G	A	474	90.753	72.704	26.663	1.00128.82	A16S
ATOM	9738	N2	G	A	474	90.071	72.569	27.803	1.00128.82	A16S
ATOM	9739	N1	G	A	474	91.253	71.549	26.122	1.00128.82	A16S
ATOM	9740	C6	G	A	474	91.991	71.470	24.948	1.00128.82	A16S
ATOM	9741	O6	G	A	474	92.400	70.372	24.550	1.00128.82	A16S
ATOM	9742	C5	G	A	474	92.171	72.745	24.362	1.00128.82	A16S
ATOM	9743	N7	G	A	474	92.840	73.114	23.205	1.00128.82	A16S
ATOM	9744	C8	G	A	474	92.701	74.410	23.152	1.00128.82	A16S
ATOM	9745	C2* G	A	A	474	92.646	76.837	25.582	1.00 70.63	A16S
ATOM	9746	O2* G	A	A	474	91.940	77.633	26.507	1.00 70.63	A16S
ATOM	9747	C3* G	A	A	474	93.689	77.586	24.760	1.00 70.63	A16S
ATOM	9748	O3* G	A	A	474	94.277	78.637	25.508	1.00 70.63	A16S
ATOM	9749	P	G	A	475	95.422	78.303	26.582	1.00 79.76	A16S
ATOM	9750	O1P	G	A	475	95.839	79.595	27.183	1.00158.95	A16S
ATOM	9751	O2P	G	A	475	96.430	77.446	25.912	1.00158.95	A16S
ATOM	9752	O5* G	A	A	475	94.686	77.433	27.704	1.00 79.76	A16S
ATOM	9753	C5* G	A	A	475	93.852	78.058	28.706	1.00 79.76	A16S
ATOM	9754	C4* G	A	A	475	93.420	77.052	29.751	1.00 79.76	A16S
ATOM	9755	O4* G	A	A	475	92.614	76.016	29.134	1.00 79.76	A16S
ATOM	9756	C1* G	A	A	475	92.850	74.776	29.783	1.00 79.76	A16S
ATOM	9757	N9	G	A	475	93.296	73.812	28.784	1.00158.95	A16S
ATOM	9758	C4	G	A	475	93.497	72.469	28.977	1.00158.95	A16S
ATOM	9759	N3	G	A	475	93.304	71.796	30.130	1.00158.95	A16S
ATOM	9760	C2	G	A	475	93.593	70.512	30.005	1.00158.95	A16S
ATOM	9761	N2	G	A	475	93.453	69.690	31.053	1.00158.95	A16S
ATOM	9762	N1	G	A	475	94.042	69.938	28.841	1.00158.95	A16S
ATOM	9763	C6	G	A	475	94.249	70.616	27.644	1.00158.95	A16S
ATOM	9764	O6	G	A	475	94.665	70.006	26.651	1.00158.95	A16S
ATOM	9765	C5	G	A	475	93.935	71.988	27.764	1.00158.95	A16S
ATOM	9766	N7	G	A	475	93.996	73.005	26.824	1.00158.95	A16S
ATOM	9767	C8	G	A	475	93.608	74.067	27.472	1.00158.95	A16S
ATOM	9768	C2* G	A	A	475	93.882	75.000	30.893	1.00 79.76	A16S
ATOM	9769	O2* G	A	A	475	93.236	75.039	32.146	1.00 79.76	A16S
ATOM	9770	C3* G	A	A	475	94.540	76.312	30.461	1.00 79.76	A16S
ATOM	9771	O3* G	A	A	475	95.007	77.077	31.563	1.00 79.76	A16S
ATOM	9772	P	G	A	476	96.415	76.716	32.249	1.00110.16	A16S



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ATOM	9773	O1P	G	A	476	96.646	77.686	33.350	1.00172.37	A16S
ATOM	9774	O2P	G	A	476	97.430	76.576	31.174	1.00172.37	A16S
ATOM	9775	O5*	G	A	476	96.174	75.285	32.900	1.00110.16	A16S
ATOM	9776	C5*	G	A	476	95.373	75.142	34.076	1.00110.16	A16S
ATOM	9777	C4*	G	A	476	95.399	73.715	34.544	1.00110.16	A16S
ATOM	9778	O4*	G	A	476	94.795	72.866	33.536	1.00110.16	A16S
ATOM	9779	C1*	G	A	476	95.447	71.606	33.529	1.00110.16	A16S
ATOM	9780	N9	G	A	476	95.978	71.357	32.194	1.00172.37	A16S
ATOM	9781	C4	G	A	476	96.456	70.157	31.725	1.00172.37	A16S
ATOM	9782	N3	G	A	476	96.516	69.001	32.421	1.00172.37	A16S
ATOM	9783	C2	G	A	476	97.019	68.016	31.698	1.00172.37	A16S
ATOM	9784	N2	G	A	476	97.151	66.795	32.231	1.00172.37	A16S
ATOM	9785	N1	G	A	476	97.430	68.154	30.398	1.00172.37	A16S
ATOM	9786	C6	G	A	476	97.377	69.333	29.664	1.00172.37	A16S
ATOM	9787	O6	G	A	476	97.774	69.347	28.494	1.00172.37	A16S
ATOM	9788	C5	G	A	476	96.840	70.399	30.427	1.00172.37	A16S
ATOM	9789	N7	G	A	476	96.613	71.725	30.085	1.00172.37	A16S
ATOM	9790	C8	G	A	476	96.105	72.255	31.163	1.00172.37	A16S
ATOM	9791	C2*	G	A	476	96.544	71.631	34.595	1.00110.16	A16S
ATOM	9792	O2*	G	A	476	96.067	71.019	35.776	1.00110.16	A16S
ATOM	9793	C3*	G	A	476	96.783	73.125	34.762	1.00110.16	A16S
ATOM	9794	O3*	G	A	476	97.289	73.440	36.052	1.00110.16	A16S
ATOM	9795	P	G	A	477	98.864	73.296	36.346	1.00116.82	A16S
ATOM	9796	O1P	G	A	477	99.107	73.711	37.754	1.00159.91	A16S
ATOM	9797	O2P	G	A	477	99.612	73.959	35.243	1.00159.91	A16S
ATOM	9798	O5*	G	A	477	99.118	71.731	36.261	1.00116.82	A16S
ATOM	9799	C5*	G	A	477	98.503	70.850	37.201	1.00116.82	A16S
ATOM	9800	C4*	G	A	477	98.940	69.441	36.938	1.00116.82	A16S
ATOM	9801	O4*	G	A	477	98.377	68.964	35.690	1.00116.82	A16S
ATOM	9802	C1*	G	A	477	99.298	68.092	35.057	1.00116.82	A16S
ATOM	9803	N9	G	A	477	99.620	68.631	33.740	1.00159.91	A16S
ATOM	9804	C4	G	A	477	100.181	67.941	32.692	1.00159.91	A16S
ATOM	9805	N3	G	A	477	100.514	66.633	32.691	1.00159.91	A16S
ATOM	9806	C2	G	A	477	101.048	66.261	31.541	1.00159.91	A16S
ATOM	9807	N2	G	A	477	101.435	64.994	31.362	1.00159.91	A16S
ATOM	9808	N1	G	A	477	101.243	67.103	30.480	1.00159.91	A16S
ATOM	9809	C6	G	A	477	100.913	68.452	30.460	1.00159.91	A16S
ATOM	9810	O6	G	A	477	101.143	69.126	29.451	1.00159.91	A16S
ATOM	9811	C5	G	A	477	100.331	68.865	31.685	1.00159.91	A16S
ATOM	9812	N7	G	A	477	99.859	70.109	32.082	1.00159.91	A16S
ATOM	9813	C8	G	A	477	99.445	69.922	33.304	1.00159.91	A16S
ATOM	9814	C2*	G	A	477	100.532	67.990	35.954	1.00116.82	A16S
ATOM	9815	O2*	G	A	477	100.433	66.838	36.764	1.00116.82	A16S
ATOM	9816	C3*	G	A	477	100.433	69.276	36.760	1.00116.82	A16S
ATOM	9817	O3*	G	A	477	101.097	69.212	38.008	1.00116.82	A16S
ATOM	9818	P	A	A	478	102.666	69.525	38.078	1.00102.38	A16S
ATOM	9819	O1P	A	A	478	103.043	69.619	39.511	1.00170.84	A16S
ATOM	9820	O2P	A	A	478	102.944	70.670	37.171	1.00170.84	A16S
ATOM	9821	O5*	A	A	478	103.325	68.205	37.469	1.00102.38	A16S
ATOM	9822	C5*	A	A	478	103.051	66.924	38.063	1.00102.38	A16S
ATOM	9823	C4*	A	A	478	103.505	65.800	37.162	1.00102.38	A16S
ATOM	9824	O4*	A	A	478	102.744	65.798	35.928	1.00102.38	A16S
ATOM	9825	C1*	A	A	478	103.560	65.329	34.864	1.00102.38	A16S
ATOM	9826	N9	A	A	478	103.641	66.377	33.842	1.00170.84	A16S
ATOM	9827	C4	A	A	478	104.213	66.263	32.595	1.00170.84	A16S
ATOM	9828	N3	A	A	478	104.812	65.182	32.066	1.00170.84	A16S
ATOM	9829	C2	A	A	478	105.249	65.444	30.838	1.00170.84	A16S
ATOM	9830	N1	A	A	478	105.163	66.577	30.132	1.00170.84	A16S
ATOM	9831	C6	A	A	478	104.555	67.644	30.693	1.00170.84	A16S
ATOM	9832	N6	A	A	478	104.466	68.776	29.991	1.00170.84	A16S
ATOM	9833	C5	A	A	478	104.049	67.497	31.991	1.00170.84	A16S
ATOM	9834	N7	A	A	478	103.390	68.376	32.838	1.00170.84	A16S
ATOM	9835	C8	A	A	478	103.172	67.668	33.919	1.00170.84	A16S
ATOM	9836	C2*	A	A	478	104.923	64.966	35.453	1.00102.38	A16S
ATOM	9837	O2*	A	A	478	104.950	63.579	35.734	1.00102.38	A16S
ATOM	9838	C3*	A	A	478	104.952	65.824	36.712	1.00102.38	A16S
ATOM	9839	O3*	A	A	478	105.806	65.285	37.700	1.00102.38	A16S
ATOM	9840	P	C	A	479	107.367	65.626	37.654	1.00106.10	A16S
ATOM	9841	O1P	C	A	479	107.986	65.037	38.865	1.00103.86	A16S
ATOM	9842	O2P	C	A	479	107.514	67.080	37.382	1.00103.86	A16S
ATOM	9843	O5*	C	A	479	107.885	64.810	36.391	1.00106.10	A16S
ATOM	9844	C5*	C	A	479	107.819	63.369	36.372	1.00106.10	A16S
ATOM	9845	C4*	C	A	479	108.681	62.817	35.261	1.00106.10	A16S
ATOM	9846	O4*	C	A	479	108.023	62.966	33.973	1.00106.10	A16S
ATOM	9847	C1*	C	A	479	108.986	63.274	32.976	1.00106.10	A16S
ATOM	9848	N1	C	A	479	108.714	64.638	32.473	1.00103.86	A16S
ATOM	9849	C6	C	A	479	108.061	65.554	33.251	1.00103.86	A16S



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ATOM	9850	C2	C	A	479	109.144	64.989	31.184	1.00103.86	A16S
ATOM	9851	O2	C	A	479	109.744	64.148	30.495	1.00103.86	A16S
ATOM	9852	N3	C	A	479	108.898	66.237	30.727	1.00103.86	A16S
ATOM	9853	C4	C	A	479	108.264	67.119	31.499	1.00103.86	A16S
ATOM	9854	N4	C	A	479	108.052	68.338	31.011	1.00103.86	A16S
ATOM	9855	C5	C	A	479	107.821	66.792	32.809	1.00103.86	A16S
ATOM	9856	C2*	C	A	479	110.359	63.193	33.640	1.00106.10	A16S
ATOM	9857	O2*	C	A	479	110.874	61.884	33.506	1.00106.10	A16S
ATOM	9858	C3*	C	A	479	110.012	63.518	35.082	1.00106.10	A16S
ATOM	9859	O3*	C	A	479	110.988	63.094	36.009	1.00106.10	A16S
ATOM	9860	P	U	A	480	112.074	64.157	36.528	1.00 88.52	A16S
ATOM	9861	O1P	U	A	480	112.913	63.502	37.573	1.00101.78	A16S
ATOM	9862	O2P	U	A	480	111.349	65.422	36.847	1.00101.78	A16S
ATOM	9863	O5*	U	A	480	112.969	64.413	35.229	1.00 88.52	A16S
ATOM	9864	C5*	U	A	480	113.509	63.300	34.478	1.00 88.52	A16S
ATOM	9865	C4*	U	A	480	114.003	63.749	33.118	1.00 88.52	A16S
ATOM	9866	O4*	U	A	480	112.897	64.190	32.293	1.00 88.52	A16S
ATOM	9867	C1*	U	A	480	113.335	65.219	31.424	1.00 88.52	A16S
ATOM	9868	N1	U	A	480	112.559	66.439	31.707	1.00101.78	A16S
ATOM	9869	C6	U	A	480	111.999	66.667	32.945	1.00101.78	A16S
ATOM	9870	O2	U	A	480	112.413	67.360	30.685	1.00101.78	A16S
ATOM	9871	O2	U	A	480	112.892	67.200	29.578	1.00101.78	A16S
ATOM	9872	N3	U	A	480	111.686	68.478	31.010	1.00101.78	A16S
ATOM	9873	C4	U	A	480	111.101	68.763	32.225	1.00101.78	A16S
ATOM	9874	O4	U	A	480	110.461	69.804	32.358	1.00101.78	A16S
ATOM	9875	C5	U	A	480	111.297	67.767	33.229	1.00101.78	A16S
ATOM	9876	C2*	U	A	480	114.831	65.412	31.662	1.00 88.52	A16S
ATOM	9877	O2*	U	A	480	115.530	64.581	30.762	1.00 88.52	A16S
ATOM	9878	C3*	U	A	480	114.985	64.905	33.084	1.00 88.52	A16S
ATOM	9879	O3*	U	A	480	116.303	64.452	33.300	1.00 88.52	A16S
ATOM	9880	P	G	A	481	117.243	65.216	34.347	1.00101.17	A16S
ATOM	9881	O1P	G	A	481	117.172	64.482	35.627	1.00100.19	A16S
ATOM	9882	O2P	G	A	481	116.938	66.660	34.323	1.00100.19	A16S
ATOM	9883	O5*	G	A	481	118.694	64.983	33.749	1.00101.17	A16S
ATOM	9884	C5*	G	A	481	119.793	65.804	34.143	1.00101.17	A16S
ATOM	9885	C4*	G	A	481	120.184	66.695	33.002	1.00101.17	A16S
ATOM	9886	O4*	G	A	481	119.114	67.618	32.731	1.00101.17	A16S
ATOM	9887	C1*	G	A	481	119.655	68.709	32.036	1.00101.17	A16S
ATOM	9888	N9	G	A	481	118.943	69.939	32.333	1.00100.19	A16S
ATOM	9889	C4	G	A	481	118.620	70.890	31.411	1.00100.19	A16S
ATOM	9890	N3	G	A	481	118.946	70.860	30.111	1.00100.19	A16S
ATOM	9891	C2	G	A	481	118.474	71.899	29.467	1.00100.19	A16S
ATOM	9892	N2	G	A	481	118.733	72.038	28.165	1.00100.19	A16S
ATOM	9893	N1	G	A	481	117.717	72.883	30.049	1.00100.19	A16S
ATOM	9894	C6	G	A	481	117.360	72.923	31.390	1.00100.19	A16S
ATOM	9895	O6	G	A	481	116.647	73.843	31.819	1.00100.19	A16S
ATOM	9896	C5	G	A	481	117.891	71.829	32.094	1.00100.19	A16S
ATOM	9897	N7	G	A	481	117.800	71.498	33.434	1.00100.19	A16S
ATOM	9898	C8	G	A	481	118.447	70.370	33.531	1.00100.19	A16S
ATOM	9899	C2*	G	A	481	121.147	68.762	32.303	1.00101.17	A16S
ATOM	9900	O2*	G	A	481	121.677	68.516	31.035	1.00101.17	A16S
ATOM	9901	C3*	G	A	481	121.373	67.598	33.265	1.00101.17	A16S
ATOM	9902	O3*	G	A	481	122.553	66.956	32.801	1.00101.17	A16S
ATOM	9903	P	A	A	482	123.258	65.813	33.670	1.00 55.78	A16S
ATOM	9904	O1P	A	A	482	122.624	64.533	33.261	1.00 77.57	A16S
ATOM	9905	O2P	A	A	482	123.275	66.218	35.103	1.00 77.57	A16S
ATOM	9906	O5*	A	A	482	124.763	65.844	33.150	1.00 55.78	A16S
ATOM	9907	C5*	A	A	482	125.354	64.707	32.501	1.00 55.78	A16S
ATOM	9908	C4*	A	A	482	126.195	65.156	31.333	1.00 55.78	A16S
ATOM	9909	O4*	A	A	482	125.364	65.485	30.199	1.00 55.78	A16S
ATOM	9910	C1*	A	A	482	125.981	66.516	29.455	1.00 55.78	A16S
ATOM	9911	N9	A	A	482	125.005	67.576	29.252	1.00 77.57	A16S
ATOM	9912	C4	A	A	482	125.219	68.823	28.716	1.00 77.57	A16S
ATOM	9913	N3	A	A	482	126.377	69.331	28.266	1.00 77.57	A16S
ATOM	9914	C2	A	A	482	126.195	70.573	27.816	1.00 77.57	A16S
ATOM	9915	N1	A	A	482	125.071	71.309	27.783	1.00 77.57	A16S
ATOM	9916	C6	A	A	482	123.933	70.763	28.261	1.00 77.57	A16S
ATOM	9917	N6	A	A	482	122.820	71.499	28.269	1.00 77.57	A16S
ATOM	9918	C5	A	A	482	123.993	69.453	28.737	1.00 77.57	A16S
ATOM	9919	N7	A	A	482	123.027	68.615	29.252	1.00 77.57	A16S
ATOM	9920	C8	A	A	482	123.679	67.522	29.548	1.00 77.57	A16S
ATOM	9921	C2*	A	A	482	127.251	66.954	30.186	1.00 55.78	A16S
ATOM	9922	O2*	A	A	482	128.379	66.391	29.552	1.00 55.78	A16S
ATOM	9923	C3*	A	A	482	127.014	66.402	31.582	1.00 55.78	A16S
ATOM	9924	O3*	A	A	482	128.216	66.058	32.214	1.00 55.78	A16S
ATOM	9925	P	C	A	483	128.751	66.960	33.418	1.00 66.57	A16S
ATOM	9926	O1P	C	A	483	130.083	66.412	33.819	1.00 90.26	A16S



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ATOM	9927	O2P	C	A	483	127.657	67.066	34.429	1.00	90.26	A16S
ATOM	9928	O5*	C	A	483	128.960	68.394	32.752	1.00	66.57	A16S
ATOM	9929	C5*	C	A	483	129.873	68.561	31.651	1.00	66.57	A16S
ATOM	9930	C4*	C	A	483	129.640	69.886	30.979	1.00	66.57	A16S
ATOM	9931	O4*	C	A	483	128.298	69.915	30.445	1.00	66.57	A16S
ATOM	9932	C1*	C	A	483	127.769	71.219	30.565	1.00	66.57	A16S
ATOM	9933	N1	C	A	483	126.526	71.140	31.342	1.00	90.26	A16S
ATOM	9934	C6	C	A	483	126.369	70.211	32.333	1.00	90.26	A16S
ATOM	9935	C2	C	A	483	125.497	72.030	31.040	1.00	90.26	A16S
ATOM	9936	O2	C	A	483	125.682	72.880	30.161	1.00	90.26	A16S
ATOM	9937	N3	C	A	483	124.332	71.948	31.715	1.00	90.26	A16S
ATOM	9938	C4	C	A	483	124.181	71.035	32.676	1.00	90.26	A16S
ATOM	9939	N4	C	A	483	123.006	70.992	33.321	1.00	90.26	A16S
ATOM	9940	C5	C	A	483	125.225	70.124	33.021	1.00	90.26	A16S
ATOM	9941	C2*	C	A	483	128.839	72.109	31.191	1.00	66.57	A16S
ATOM	9942	O2*	C	A	483	129.542	72.778	30.168	1.00	66.57	A16S
ATOM	9943	C3*	C	A	483	129.711	71.087	31.896	1.00	66.57	A16S
ATOM	9944	O3*	C	A	483	131.035	71.532	32.004	1.00	66.57	A16S
ATOM	9945	P	G	A	484	131.530	72.193	33.372	1.00	86.69	A16S
ATOM	9946	O1P	G	A	484	130.945	73.553	33.449	1.00	85.52	A16S
ATOM	9947	O2P	G	A	484	132.999	72.024	33.488	1.00	85.52	A16S
ATOM	9948	O5*	G	A	484	130.836	71.294	34.482	1.00	86.69	A16S
ATOM	9949	C5*	G	A	484	131.258	71.373	35.849	1.00	86.69	A16S
ATOM	9950	C4*	G	A	484	130.131	70.967	36.762	1.00	86.69	A16S
ATOM	9951	O4*	G	A	484	129.108	71.998	36.771	1.00	86.69	A16S
ATOM	9952	C1*	G	A	484	127.829	71.428	36.541	1.00	86.69	A16S
ATOM	9953	N9	G	A	484	127.080	72.378	35.711	1.00	85.52	A16S
ATOM	9954	C4	G	A	484	125.747	72.729	35.822	1.00	85.52	A16S
ATOM	9955	N3	G	A	484	124.871	72.251	36.720	1.00	85.52	A16S
ATOM	9956	C2	G	A	484	123.674	72.788	36.576	1.00	85.52	A16S
ATOM	9957	N2	G	A	484	122.687	72.433	37.398	1.00	85.52	A16S
ATOM	9958	N1	G	A	484	123.357	73.710	35.622	1.00	85.52	A16S
ATOM	9959	C6	G	A	484	124.239	74.213	34.682	1.00	85.52	A16S
ATOM	9960	O6	G	A	484	123.847	75.041	33.854	1.00	85.52	A16S
ATOM	9961	C5	G	A	484	125.531	73.657	34.831	1.00	85.52	A16S
ATOM	9962	N7	G	A	484	126.692	73.891	34.112	1.00	85.52	A16S
ATOM	9963	C8	G	A	484	127.581	73.112	34.665	1.00	85.52	A16S
ATOM	9964	C2*	G	A	484	128.034	70.043	35.907	1.00	86.69	A16S
ATOM	9965	O2*	G	A	484	127.059	69.139	36.388	1.00	86.69	A16S
ATOM	9966	C3*	G	A	484	129.436	69.672	36.387	1.00	86.69	A16S
ATOM	9967	O3*	G	A	484	129.835	68.438	37.008	1.00	86.69	A16S
ATOM	9968	P	G	A	485	129.570	68.183	38.578	1.00	91.86	A16S
ATOM	9969	O1P	G	A	485	130.066	66.812	38.865	1.00	109.25	A16S
ATOM	9970	O2P	G	A	485	128.153	68.530	38.890	1.00	109.25	A16S
ATOM	9971	O5*	G	A	485	130.553	69.211	39.308	1.00	91.86	A16S
ATOM	9972	C5*	G	A	485	130.430	69.487	40.728	1.00	91.86	A16S
ATOM	9973	C4*	G	A	485	129.588	70.723	40.937	1.00	91.86	A16S
ATOM	9974	O4*	G	A	485	128.398	70.421	41.692	1.00	91.86	A16S
ATOM	9975	C1*	G	A	485	127.829	71.650	42.044	1.00	91.86	A16S
ATOM	9976	N9	G	A	485	126.939	71.525	43.186	1.00	109.25	A16S
ATOM	9977	C4	G	A	485	125.726	72.138	43.265	1.00	109.25	A16S
ATOM	9978	N3	G	A	485	125.195	72.924	42.318	1.00	109.25	A16S
ATOM	9979	C2	G	A	485	124.021	73.386	42.661	1.00	109.25	A16S
ATOM	9980	N2	G	A	485	123.386	74.195	41.824	1.00	109.25	A16S
ATOM	9981	N1	G	A	485	123.395	73.093	43.850	1.00	109.25	A16S
ATOM	9982	C6	G	A	485	123.924	72.284	44.852	1.00	109.25	A16S
ATOM	9983	O6	G	A	485	123.282	72.092	45.899	1.00	109.25	A16S
ATOM	9984	C5	G	A	485	125.206	71.780	44.485	1.00	109.25	A16S
ATOM	9985	N7	G	A	485	126.088	70.952	45.168	1.00	109.25	A16S
ATOM	9986	C8	G	A	485	127.105	70.827	44.356	1.00	109.25	A16S
ATOM	9987	C2*	G	A	485	128.950	72.671	42.187	1.00	91.86	A16S
ATOM	9988	O2*	G	A	485	128.627	73.752	41.339	1.00	91.86	A16S
ATOM	9989	C3*	G	A	485	130.182	71.890	41.713	1.00	91.86	A16S
ATOM	9990	O3*	G	A	485	130.939	72.713	40.836	1.00	91.86	A16S
ATOM	9991	P	U	A	486	131.556	74.099	41.368	1.00	96.41	A16S
ATOM	9992	O1P	U	A	486	132.946	73.787	41.787	1.00	84.16	A16S
ATOM	9993	O2P	U	A	486	130.634	74.751	42.335	1.00	84.16	A16S
ATOM	9994	O5*	U	A	486	131.616	75.013	40.065	1.00	96.41	A16S
ATOM	9995	C5*	U	A	486	132.702	74.892	39.138	1.00	96.41	A16S
ATOM	9996	C4*	U	A	486	132.293	75.413	37.790	1.00	96.41	A16S
ATOM	9997	O4*	U	A	486	131.213	74.605	37.264	1.00	96.41	A16S
ATOM	9998	C1*	U	A	486	130.354	75.412	36.485	1.00	96.41	A16S
ATOM	9999	N1	U	A	486	128.996	75.340	37.034	1.00	84.16	A16S
ATOM	10000	C6	U	A	486	128.711	74.667	38.192	1.00	84.16	A16S
ATOM	10001	C2	U	A	486	128.008	75.996	36.339	1.00	84.16	A16S
ATOM	10002	O2	U	A	486	128.218	76.582	35.300	1.00	84.16	A16S
ATOM	10003	N3	U	A	486	126.765	75.941	36.902	1.00	84.16	A16S



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ATOM	10004	C4	U	A	486	126.416	75.306	38.061	1.00	84.16	A16S
ATOM	10005	O4	U	A	486	125.261	75.392	38.466	1.00	84.16	A16S
ATOM	10006	C5	U	A	486	127.487	74.628	38.717	1.00	84.16	A16S
ATOM	10007	C2*	U	A	486	130.896	76.841	36.512	1.00	96.41	A16S
ATOM	10008	O2*	U	A	486	131.641	77.068	35.333	1.00	96.41	A16S
ATOM	10009	C3*	U	A	486	131.746	76.826	37.775	1.00	96.41	A16S
ATOM	10010	O3*	U	A	486	132.794	77.784	37.728	1.00	96.41	A16S
ATOM	10011	P	A	A	487	132.513	79.284	38.226	1.00	87.03	A16S
ATOM	10012	O1P	A	A	487	133.707	80.115	37.887	1.00	82.93	A16S
ATOM	10013	O2P	A	A	487	132.027	79.227	39.635	1.00	82.93	A16S
ATOM	10014	O5*	A	A	487	131.291	79.757	37.320	1.00	87.03	A16S
ATOM	10015	C5*	A	A	487	131.484	80.104	35.940	1.00	87.03	A16S
ATOM	10016	C4*	A	A	487	130.320	80.920	35.450	1.00	87.03	A16S
ATOM	10017	O4*	A	A	487	129.128	80.103	35.449	1.00	87.03	A16S
ATOM	10018	C1*	A	A	487	128.014	80.879	35.850	1.00	87.03	A16S
ATOM	10019	N9	A	A	487	127.450	80.265	37.055	1.00	82.93	A16S
ATOM	10020	C4	A	A	487	126.210	80.506	37.590	1.00	82.93	A16S
ATOM	10021	N3	A	A	487	125.276	81.343	37.124	1.00	82.93	A16S
ATOM	10022	C2	A	A	487	124.202	81.317	37.900	1.00	82.93	A16S
ATOM	10023	N1	A	A	487	123.969	80.602	39.004	1.00	82.93	A16S
ATOM	10024	C6	A	A	487	124.929	79.770	39.446	1.00	82.93	A16S
ATOM	10025	N6	A	A	487	124.696	79.056	40.549	1.00	82.93	A16S
ATOM	10026	C5	A	A	487	126.120	79.705	38.712	1.00	82.93	A16S
ATOM	10027	N7	A	A	487	127.282	78.967	38.885	1.00	82.93	A16S
ATOM	10028	C8	A	A	487	128.037	79.331	37.879	1.00	82.93	A16S
ATOM	10029	C2*	A	A	487	128.499	82.317	36.055	1.00	87.03	A16S
ATOM	10030	O2*	A	A	487	128.293	83.081	34.881	1.00	87.03	A16S
ATOM	10031	C3*	A	A	487	129.976	82.104	36.329	1.00	87.03	A16S
ATOM	10032	O3*	A	A	487	130.739	83.228	35.960	1.00	87.03	A16S
ATOM	10033	P	C	A	488	131.189	84.272	37.084	1.00	82.35	A16S
ATOM	10034	O1P	C	A	488	131.746	85.451	36.364	1.00	85.94	A16S
ATOM	10035	O2P	C	A	488	132.041	83.544	38.066	1.00	85.94	A16S
ATOM	10036	O5*	C	A	488	129.809	84.686	37.774	1.00	82.35	A16S
ATOM	10037	C5*	C	A	488	128.807	85.444	37.051	1.00	82.35	A16S
ATOM	10038	C4*	C	A	488	127.517	85.496	37.840	1.00	82.35	A16S
ATOM	10039	O4*	C	A	488	126.964	84.158	37.917	1.00	82.35	A16S
ATOM	10040	C1*	C	A	488	126.431	83.925	39.212	1.00	82.35	A16S
ATOM	10041	N1	C	A	488	127.230	82.859	39.852	1.00	85.94	A16S
ATOM	10042	C6	C	A	488	128.402	82.431	39.289	1.00	85.94	A16S
ATOM	10043	C2	C	A	488	126.779	82.294	41.047	1.00	85.94	A16S
ATOM	10044	O2	C	A	488	125.724	82.712	41.546	1.00	85.94	A16S
ATOM	10045	N3	C	A	488	127.512	81.310	41.630	1.00	85.94	A16S
ATOM	10046	C4	C	A	488	128.652	80.898	41.064	1.00	85.94	A16S
ATOM	10047	N4	C	A	488	129.339	79.921	41.657	1.00	85.94	A16S
ATOM	10048	C5	C	A	488	129.138	81.467	39.858	1.00	85.94	A16S
ATOM	10049	C2*	C	A	488	126.504	85.242	39.985	1.00	82.35	A16S
ATOM	10050	O2*	C	A	488	125.283	85.947	39.876	1.00	82.35	A16S
ATOM	10051	C3*	C	A	488	127.667	85.938	39.290	1.00	82.35	A16S
ATOM	10052	O3*	C	A	488	127.639	87.353	39.457	1.00	82.35	A16S
ATOM	10053	P	C	A	489	128.355	88.011	40.740	1.00	79.00	A16S
ATOM	10054	O1P	C	A	489	128.358	89.478	40.510	1.00	76.07	A16S
ATOM	10055	O2P	C	A	489	129.643	87.304	40.984	1.00	76.07	A16S
ATOM	10056	O5*	C	A	489	127.364	87.669	41.945	1.00	79.00	A16S
ATOM	10057	C5*	C	A	489	126.002	88.163	41.954	1.00	79.00	A16S
ATOM	10058	C4*	C	A	489	125.280	87.725	43.213	1.00	79.00	A16S
ATOM	10059	O4*	C	A	489	125.018	86.297	43.163	1.00	79.00	A16S
ATOM	10060	C1*	C	A	489	125.209	85.729	44.453	1.00	79.00	A16S
ATOM	10061	N1	C	A	489	126.362	84.805	44.385	1.00	76.07	A16S
ATOM	10062	C6	C	A	489	127.324	84.955	43.422	1.00	76.07	A16S
ATOM	10063	C2	C	A	489	126.465	83.772	45.325	1.00	76.07	A16S
ATOM	10064	O2	C	A	489	125.581	83.651	46.191	1.00	76.07	A16S
ATOM	10065	N3	C	A	489	127.526	82.933	45.268	1.00	76.07	A16S
ATOM	10066	C4	C	A	489	128.459	83.095	44.326	1.00	76.07	A16S
ATOM	10067	N4	C	A	489	129.492	82.245	44.311	1.00	76.07	A16S
ATOM	10068	C5	C	A	489	128.378	84.134	43.358	1.00	76.07	A16S
ATOM	10069	C2*	C	A	489	125.469	86.877	45.430	1.00	79.00	A16S
ATOM	10070	O2*	C	A	489	124.265	87.286	46.047	1.00	79.00	A16S
ATOM	10071	C3*	C	A	489	126.054	87.933	44.504	1.00	79.00	A16S
ATOM	10072	O3*	C	A	489	125.926	89.245	45.018	1.00	79.00	A16S
ATOM	10073	P	G	A	490	127.120	89.863	45.892	1.00	90.02	A16S
ATOM	10074	O1P	G	A	490	126.810	91.298	46.094	1.00	108.76	A16S
ATOM	10075	O2P	G	A	490	128.422	89.474	45.294	1.00	108.76	A16S
ATOM	10076	O5*	G	A	490	126.991	89.101	47.283	1.00	90.02	A16S
ATOM	10077	C5*	G	A	490	125.815	89.247	48.102	1.00	90.02	A16S
ATOM	10078	C4*	G	A	490	125.939	88.394	49.338	1.00	90.02	A16S
ATOM	10079	O4*	G	A	490	125.838	86.994	48.970	1.00	90.02	A16S
ATOM	10080	C1*	G	A	490	126.721	86.225	49.773	1.00	90.02	A16S



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ATOM	10081	N9	G	A 490	127.704	85.596	48.899	1.00108.76	A16S
ATOM	10082	C4	G	A 490	128.528	84.539	49.213	1.00108.76	A16S
ATOM	10083	N3	G	A 490	128.519	83.838	50.365	1.00108.76	A16S
ATOM	10084	C2	G	A 490	129.461	82.911	50.384	1.00108.76	A16S
ATOM	10085	N2	G	A 490	129.582	82.103	51.438	1.00108.76	A16S
ATOM	10086	N1	G	A 490	130.353	82.703	49.367	1.00108.76	A16S
ATOM	10087	C6	G	A 490	130.388	83.421	48.178	1.00108.76	A16S
ATOM	10088	O6	G	A 490	131.257	83.175	47.334	1.00108.76	A16S
ATOM	10089	C5	G	A 490	129.363	84.397	48.129	1.00108.76	A16S
ATOM	10090	N7	G	A 490	129.033	85.301	47.129	1.00108.76	A16S
ATOM	10091	C8	G	A 490	128.038	85.981	47.625	1.00108.76	A16S
ATOM	10092	C2*	G	A 490	127.408	87.175	50.761	1.00 90.02	A16S
ATOM	10093	O2*	G	A 490	126.774	87.155	52.026	1.00 90.02	A16S
ATOM	10094	C3*	G	A 490	127.274	88.511	50.049	1.00 90.02	A16S
ATOM	10095	O3*	G	A 490	127.309	89.596	50.950	1.00 90.02	A16S
ATOM	10096	P	G	A 491	128.725	90.216	51.373	1.00 75.79	A16S
ATOM	10097	O1P	G	A 491	128.431	91.409	52.208	1.00127.72	A16S
ATOM	10098	O2P	G	A 491	129.545	90.365	50.146	1.00127.72	A16S
ATOM	10099	O5*	G	A 491	129.381	89.091	52.297	1.00 75.79	A16S
ATOM	10100	C5*	G	A 491	128.832	88.808	53.605	1.00 75.79	A16S
ATOM	10101	C4*	G	A 491	129.642	87.750	54.317	1.00 75.79	A16S
ATOM	10102	O4*	G	A 491	129.448	86.469	53.670	1.00 75.79	A16S
ATOM	10103	C1*	G	A 491	130.654	85.722	53.728	1.00 75.79	A16S
ATOM	10104	N9	G	A 491	131.100	85.461	52.362	1.00127.72	A16S
ATOM	10105	C4	G	A 491	132.102	84.599	51.972	1.00127.72	A16S
ATOM	10106	N3	G	A 491	132.836	83.811	52.785	1.00127.72	A16S
ATOM	10107	C2	G	A 491	133.737	83.115	52.113	1.00127.72	A16S
ATOM	10108	N2	G	A 491	134.547	82.278	52.758	1.00127.72	A16S
ATOM	10109	N1	G	A 491	133.910	83.188	50.758	1.00127.72	A16S
ATOM	10110	C6	G	A 491	133.170	83.993	49.901	1.00127.72	A16S
ATOM	10111	O6	G	A 491	133.415	83.994	48.688	1.00127.72	A16S
ATOM	10112	C5	G	A 491	132.192	84.740	50.605	1.00127.72	A16S
ATOM	10113	N7	G	A 491	131.253	85.650	50.141	1.00127.72	A16S
ATOM	10114	C8	G	A 491	130.627	86.047	51.214	1.00127.72	A16S
ATOM	10115	C2*	G	A 491	131.680	86.547	54.511	1.00 75.79	A16S
ATOM	10116	O2*	G	A 491	131.688	86.137	55.859	1.00 75.79	A16S
ATOM	10117	C3*	G	A 491	131.147	87.961	54.337	1.00 75.79	A16S
ATOM	10118	O3*	G	A 491	131.550	88.801	55.404	1.00 75.79	A16S
ATOM	10119	P	G	A 492	132.939	89.606	55.297	1.00 75.74	A16S
ATOM	10120	O1P	G	A 492	133.045	90.499	56.481	1.00127.35	A16S
ATOM	10121	O2P	G	A 492	133.039	90.186	53.932	1.00127.35	A16S
ATOM	10122	O5*	G	A 492	134.057	88.483	55.447	1.00 75.74	A16S
ATOM	10123	C5*	G	A 492	134.137	87.708	56.646	1.00 75.74	A16S
ATOM	10124	C4*	G	A 492	135.138	86.597	56.492	1.00 75.74	A16S
ATOM	10125	O4*	G	A 492	134.720	85.683	55.451	1.00 75.74	A16S
ATOM	10126	C1*	G	A 492	135.864	85.142	54.815	1.00 75.74	A16S
ATOM	10127	N9	G	A 492	135.785	85.409	53.382	1.00127.35	A16S
ATOM	10128	C4	G	A 492	136.721	85.057	52.440	1.00127.35	A16S
ATOM	10129	N3	G	A 492	137.885	84.424	52.683	1.00127.35	A16S
ATOM	10130	C2	G	A 492	138.573	84.223	51.578	1.00127.35	A16S
ATOM	10131	N2	G	A 492	139.756	83.607	51.639	1.00127.35	A16S
ATOM	10132	N1	G	A 492	138.154	84.609	50.332	1.00127.35	A16S
ATOM	10133	C6	G	A 492	136.960	85.261	50.058	1.00127.35	A16S
ATOM	10134	O6	G	A 492	136.677	85.562	48.896	1.00127.35	A16S
ATOM	10135	C5	G	A 492	136.211	85.487	51.237	1.00127.35	A16S
ATOM	10136	N7	G	A 492	134.983	86.107	51.417	1.00127.35	A16S
ATOM	10137	C8	G	A 492	134.774	86.044	52.703	1.00127.35	A16S
ATOM	10138	C2*	G	A 492	137.101	85.753	55.472	1.00 75.74	A16S
ATOM	10139	O2*	G	A 492	137.588	84.820	56.414	1.00 75.74	A16S
ATOM	10140	C3*	G	A 492	136.530	87.025	56.091	1.00 75.74	A16S
ATOM	10141	O3*	G	A 492	137.246	87.450	57.234	1.00 75.74	A16S
ATOM	10142	P	G	A 494	138.177	88.756	57.150	1.00 71.97	A16S
ATOM	10143	O1P	G	A 494	138.786	88.951	58.492	1.00111.46	A16S
ATOM	10144	O2P	G	A 494	137.372	89.849	56.545	1.00111.46	A16S
ATOM	10145	O5*	G	A 494	139.340	88.325	56.149	1.00 71.97	A16S
ATOM	10146	C5*	G	A 494	140.245	87.262	56.496	1.00 71.97	A16S
ATOM	10147	C4*	G	A 494	141.037	86.819	55.289	1.00 71.97	A16S
ATOM	10148	O4*	G	A 494	140.153	86.212	54.315	1.00 71.97	A16S
ATOM	10149	C1*	G	A 494	140.628	86.482	53.008	1.00 71.97	A16S
ATOM	10150	N9	G	A 494	139.602	87.237	52.297	1.00111.46	A16S
ATOM	10151	C4	G	A 494	139.546	87.471	50.946	1.00111.46	A16S
ATOM	10152	N3	G	A 494	140.426	87.031	50.028	1.00111.46	A16S
ATOM	10153	C2	G	A 494	140.112	87.435	48.809	1.00111.46	A16S
ATOM	10154	N2	G	A 494	140.883	87.099	47.773	1.00111.46	A16S
ATOM	10155	N1	G	A 494	139.019	88.201	48.514	1.00111.46	A16S
ATOM	10156	C6	G	A 494	138.096	88.663	49.439	1.00111.46	A16S
ATOM	10157	O6	G	A 494	137.137	89.347	49.060	1.00111.46	A16S



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ATOM	10158	C5	G	A	494	138.424	88.244	50.755	1.00111.46	A16S
ATOM	10159	N7	G	A	494	137.781	88.483	51.960	1.00111.46	A16S
ATOM	10160	C8	G	A	494	138.513	87.865	52.844	1.00111.46	A16S
ATOM	10161	C2*	G	A	494	141.935	87.266	53.143	1.00 71.97	A16S
ATOM	10162	O2*	G	A	494	143.030	86.371	53.107	1.00 71.97	A16S
ATOM	10163	C3*	G	A	494	141.778	87.899	54.517	1.00 71.97	A16S
ATOM	10164	O3*	G	A	494	143.046	88.181	55.096	1.00 71.97	A16S
ATOM	10165	P	U	A	495	143.850	89.504	54.655	1.00 81.96	A16S
ATOM	10166	O1P	U	A	495	144.437	90.141	55.871	1.00 93.31	A16S
ATOM	10167	O2P	U	A	495	142.950	90.303	53.777	1.00 93.31	A16S
ATOM	10168	O5*	U	A	495	145.057	88.926	53.786	1.00 81.96	A16S
ATOM	10169	C5*	U	A	495	145.948	87.943	54.335	1.00 81.96	A16S
ATOM	10170	C4*	U	A	495	146.822	87.358	53.255	1.00 81.96	A16S
ATOM	10171	O4*	U	A	495	146.003	86.658	52.284	1.00 81.96	A16S
ATOM	10172	C1*	U	A	495	146.590	86.772	50.999	1.00 81.96	A16S
ATOM	10173	N1	U	A	495	145.644	87.446	50.099	1.00 93.31	A16S
ATOM	10174	C6	U	A	495	144.542	88.109	50.574	1.00 93.31	A16S
ATOM	10175	C2	U	A	495	145.913	87.407	48.753	1.00 93.31	A16S
ATOM	10176	O2	U	A	495	146.864	86.818	48.291	1.00 93.31	A16S
ATOM	10177	N3	U	A	495	145.029	88.085	47.965	1.00 93.31	A16S
ATOM	10178	C4	U	A	495	143.925	88.781	48.374	1.00 93.31	A16S
ATOM	10179	O4	U	A	495	143.250	89.383	47.541	1.00 93.31	A16S
ATOM	10180	C5	U	A	495	143.697	88.761	49.779	1.00 93.31	A16S
ATOM	10181	C2*	U	A	495	147.887	87.570	51.145	1.00 81.96	A16S
ATOM	10182	O2*	U	A	495	148.975	86.675	51.237	1.00 81.96	A16S
ATOM	10183	C3*	U	A	495	147.642	88.342	52.436	1.00 81.96	A16S
ATOM	10184	O3*	U	A	495	148.870	88.636	53.080	1.00 81.96	A16S
ATOM	10185	P	A	A	496	149.408	90.149	53.135	1.00 97.99	A16S
ATOM	10186	O1P	A	A	496	150.626	90.113	53.987	1.00 93.17	A16S
ATOM	10187	O2P	A	A	496	148.285	91.058	53.491	1.00 93.17	A16S
ATOM	10188	O5*	A	A	496	149.898	90.477	51.653	1.00 97.99	A16S
ATOM	10189	C5*	A	A	496	150.936	91.456	51.431	1.00 97.99	A16S
ATOM	10190	C4*	A	A	496	151.445	91.387	50.010	1.00 97.99	A16S
ATOM	10191	O4*	A	A	496	150.338	91.572	49.096	1.00 97.99	A16S
ATOM	10192	C1*	A	A	496	150.592	92.682	48.266	1.00 97.99	A16S
ATOM	10193	N9	A	A	496	149.317	93.337	47.987	1.00 93.17	A16S
ATOM	10194	C4	A	A	496	148.714	93.374	46.752	1.00 93.17	A16S
ATOM	10195	N3	A	A	496	149.183	92.854	45.604	1.00 93.17	A16S
ATOM	10196	C2	A	A	496	148.330	93.072	44.611	1.00 93.17	A16S
ATOM	10197	N1	A	A	496	147.145	93.693	44.632	1.00 93.17	A16S
ATOM	10198	C6	A	A	496	146.700	94.196	45.802	1.00 93.17	A16S
ATOM	10199	N6	A	A	496	145.511	94.802	45.820	1.00 93.17	A16S
ATOM	10200	C5	A	A	496	147.520	94.042	46.934	1.00 93.17	A16S
ATOM	10201	N7	A	A	496	147.376	94.437	48.258	1.00 93.17	A16S
ATOM	10202	C8	A	A	496	148.468	93.998	48.839	1.00 93.17	A16S
ATOM	10203	C2*	A	A	496	151.635	93.535	48.985	1.00 97.99	A16S
ATOM	10204	O2*	A	A	496	152.371	94.325	48.071	1.00 97.99	A16S
ATOM	10205	C3*	A	A	496	152.481	92.462	49.667	1.00 97.99	A16S
ATOM	10206	O3*	A	A	496	153.458	92.002	48.714	1.00 97.99	A16S
ATOM	10207	P	A	A	497	154.010	90.487	48.765	1.00 96.39	A16S
ATOM	10208	O1P	A	A	497	153.998	90.016	50.172	1.00 86.20	A16S
ATOM	10209	O2P	A	A	497	155.277	90.439	47.994	1.00 86.20	A16S
ATOM	10210	O5*	A	A	497	152.899	89.669	47.967	1.00 96.39	A16S
ATOM	10211	C5*	A	A	497	153.164	88.347	47.488	1.00 96.39	A16S
ATOM	10212	C4*	A	A	497	152.354	88.071	46.243	1.00 96.39	A16S
ATOM	10213	O4*	A	A	497	150.949	88.164	46.570	1.00 96.39	A16S
ATOM	10214	C1*	A	A	497	150.226	88.530	45.417	1.00 96.39	A16S
ATOM	10215	N9	A	A	497	149.101	89.390	45.795	1.00 86.20	A16S
ATOM	10216	C4	A	A	497	148.067	89.777	44.975	1.00 86.20	A16S
ATOM	10217	N3	A	A	497	147.920	89.512	43.669	1.00 86.20	A16S
ATOM	10218	C2	A	A	497	146.783	90.030	43.207	1.00 86.20	A16S
ATOM	10219	N1	A	A	497	145.842	90.718	43.853	1.00 86.20	A16S
ATOM	10220	C6	A	A	497	146.013	90.962	45.166	1.00 86.20	A16S
ATOM	10221	N6	A	A	497	145.061	91.636	45.808	1.00 86.20	A16S
ATOM	10222	C5	A	A	497	147.191	90.480	45.776	1.00 86.20	A16S
ATOM	10223	N7	A	A	497	147.680	90.573	47.070	1.00 86.20	A16S
ATOM	10224	C8	A	A	497	148.817	89.923	47.026	1.00 86.20	A16S
ATOM	10225	C2*	A	A	497	151.199	89.027	44.344	1.00 96.39	A16S
ATOM	10226	O2*	A	A	497	151.116	88.173	43.224	1.00 96.39	A16S
ATOM	10227	C3*	A	A	497	152.539	89.048	45.091	1.00 96.39	A16S
ATOM	10228	O3*	A	A	497	153.749	88.810	44.315	1.00 96.39	A16S
ATOM	10229	P	U	A	498	154.045	87.371	43.587	1.00 76.68	A16S
ATOM	10230	O1P	U	A	498	152.829	86.491	43.515	1.00 81.79	A16S
ATOM	10231	O2P	U	A	498	155.282	86.825	44.221	1.00 81.79	A16S
ATOM	10232	O5*	U	A	498	154.467	87.796	42.100	1.00 76.68	A16S
ATOM	10233	C5*	U	A	498	153.598	87.557	40.967	1.00 76.68	A16S
ATOM	10234	C4*	U	A	498	154.401	87.070	39.782	1.00 76.68	A16S



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ATOM	10235	O4*	U	A	498	153.528	86.370	38.869	1.00	76.68	A16S
ATOM	10236	C1*	U	A	498	153.994	86.539	37.547	1.00	76.68	A16S
ATOM	10237	N1	U	A	498	152.906	87.101	36.730	1.00	81.79	A16S
ATOM	10238	C6	U	A	498	151.729	87.522	37.299	1.00	81.79	A16S
ATOM	10239	C2	U	A	498	153.099	87.191	35.362	1.00	81.79	A16S
ATOM	10240	O2	U	A	498	154.125	86.852	34.810	1.00	81.79	A16S
ATOM	10241	N3	U	A	498	152.043	87.706	34.663	1.00	81.79	A16S
ATOM	10242	C4	U	A	498	150.850	88.146	35.174	1.00	81.79	A16S
ATOM	10243	O4	U	A	498	150.026	88.645	34.419	1.00	81.79	A16S
ATOM	10244	C5	U	A	498	150.725	88.029	36.587	1.00	81.79	A16S
ATOM	10245	C2*	U	A	498	155.258	87.399	37.596	1.00	76.68	A16S
ATOM	10246	O2*	U	A	498	156.368	86.533	37.579	1.00	76.68	A16S
ATOM	10247	C3*	U	A	498	155.119	88.109	38.934	1.00	76.68	A16S
ATOM	10248	O3*	U	A	498	156.409	88.387	39.461	1.00	76.68	A16S
ATOM	10249	P	A	A	499	157.192	89.724	39.020	1.00	69.58	A16S
ATOM	10250	O1P	A	A	499	158.560	89.635	39.604	1.00	79.39	A16S
ATOM	10251	O2P	A	A	499	156.327	90.889	39.351	1.00	79.39	A16S
ATOM	10252	O5*	A	A	499	157.344	89.620	37.436	1.00	69.58	A16S
ATOM	10253	C5*	A	A	499	158.380	88.802	36.851	1.00	69.58	A16S
ATOM	10254	C4*	A	A	499	158.673	89.226	35.425	1.00	69.58	A16S
ATOM	10255	O4*	A	A	499	157.481	89.042	34.619	1.00	69.58	A16S
ATOM	10256	C1*	A	A	499	157.256	90.211	33.872	1.00	69.58	A16S
ATOM	10257	N9	A	A	499	155.839	90.301	33.541	1.00	79.39	A16S
ATOM	10258	C4	A	A	499	155.343	90.512	32.280	1.00	79.39	A16S
ATOM	10259	N3	A	A	499	156.045	90.682	31.148	1.00	79.39	A16S
ATOM	10260	C2	A	A	499	155.226	90.850	30.115	1.00	79.39	A16S
ATOM	10261	N1	A	A	499	153.885	90.865	30.090	1.00	79.39	A16S
ATOM	10262	C6	A	A	499	153.218	90.693	31.251	1.00	79.39	A16S
ATOM	10263	N6	A	A	499	151.886	90.708	31.236	1.00	79.39	A16S
ATOM	10264	C5	A	A	499	153.970	90.506	32.412	1.00	79.39	A16S
ATOM	10265	N7	A	A	499	153.605	90.297	33.730	1.00	79.39	A16S
ATOM	10266	C8	A	A	499	154.750	90.185	34.358	1.00	79.39	A16S
ATOM	10267	C2*	A	A	499	157.866	91.345	34.694	1.00	69.58	A16S
ATOM	10268	O2*	A	A	499	158.146	92.464	33.873	1.00	69.58	A16S
ATOM	10269	C3*	A	A	499	159.135	90.670	35.203	1.00	69.58	A16S
ATOM	10270	O3*	A	A	499	160.046	90.753	34.101	1.00	69.58	A16S
ATOM	10271	P	G	A	500	161.526	90.143	34.205	1.00	70.18	A16S
ATOM	10272	O1P	G	A	500	161.565	89.125	35.282	1.00	76.72	A16S
ATOM	10273	O2P	G	A	500	162.514	91.238	34.214	1.00	76.72	A16S
ATOM	10274	O5*	G	A	500	161.667	89.394	32.811	1.00	70.18	A16S
ATOM	10275	C5*	G	A	500	161.048	88.114	32.610	1.00	70.18	A16S
ATOM	10276	C4*	G	A	500	160.271	88.096	31.317	1.00	70.18	A16S
ATOM	10277	O4*	G	A	500	159.151	89.016	31.405	1.00	70.18	A16S
ATOM	10278	C1*	G	A	500	158.886	89.572	30.126	1.00	70.18	A16S
ATOM	10279	N9	G	A	500	159.086	91.017	30.200	1.00	76.72	A16S
ATOM	10280	C4	G	A	500	158.533	91.956	29.366	1.00	76.72	A16S
ATOM	10281	N3	G	A	500	157.678	91.710	28.355	1.00	76.72	A16S
ATOM	10282	C2	G	A	500	157.334	92.818	27.722	1.00	76.72	A16S
ATOM	10283	N2	G	A	500	156.471	92.767	26.698	1.00	76.72	A16S
ATOM	10284	N1	G	A	500	157.804	94.061	28.046	1.00	76.72	A16S
ATOM	10285	C6	G	A	500	158.685	94.336	29.079	1.00	76.72	A16S
ATOM	10286	O6	G	A	500	159.046	95.495	29.281	1.00	76.72	A16S
ATOM	10287	C5	G	A	500	159.054	93.162	29.776	1.00	76.72	A16S
ATOM	10288	N7	G	A	500	159.903	92.991	30.860	1.00	76.72	A16S
ATOM	10289	C8	G	A	500	159.886	91.706	31.082	1.00	76.72	A16S
ATOM	10290	C2*	G	A	500	159.872	88.939	29.140	1.00	70.18	A16S
ATOM	10291	O2*	G	A	500	159.272	87.826	28.504	1.00	70.18	A16S
ATOM	10292	C3*	G	A	500	161.011	88.539	30.067	1.00	70.18	A16S
ATOM	10293	O3*	G	A	500	161.837	87.530	29.517	1.00	70.18	A16S
ATOM	10294	P	C	A	501	163.246	87.945	28.877	1.00	65.19	A16S
ATOM	10295	O1P	C	A	501	164.020	86.708	28.649	1.00	78.25	A16S
ATOM	10296	O2P	C	A	501	163.834	89.033	29.691	1.00	78.25	A16S
ATOM	10297	O5*	C	A	501	162.846	88.585	27.476	1.00	65.19	A16S
ATOM	10298	C5*	C	A	501	162.230	87.786	26.446	1.00	65.19	A16S
ATOM	10299	C4*	C	A	501	161.860	88.649	25.255	1.00	65.19	A16S
ATOM	10300	O4*	C	A	501	160.775	89.551	25.611	1.00	65.19	A16S
ATOM	10301	C1*	C	A	501	160.937	90.782	24.922	1.00	65.19	A16S
ATOM	10302	N1	C	A	501	161.088	91.861	25.907	1.00	78.25	A16S
ATOM	10303	C6	C	A	501	161.715	91.634	27.098	1.00	78.25	A16S
ATOM	10304	C2	C	A	501	160.600	93.135	25.597	1.00	78.25	A16S
ATOM	10305	O2	C	A	501	160.017	93.314	24.518	1.00	78.25	A16S
ATOM	10306	N3	C	A	501	160.779	94.140	26.482	1.00	78.25	A16S
ATOM	10307	C4	C	A	501	161.415	93.910	27.632	1.00	78.25	A16S
ATOM	10308	N4	C	A	501	161.593	94.934	28.466	1.00	78.25	A16S
ATOM	10309	C5	C	A	501	161.901	92.621	27.978	1.00	78.25	A16S
ATOM	10310	C2*	C	A	501	162.182	90.670	24.040	1.00	65.19	A16S
ATOM	10311	O2*	C	A	501	161.818	90.322	22.723	1.00	65.19	A16S



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ATOM	10312	C3*	C	A	501	162.959	89.562	24.732	1.00	65.19	A16S
ATOM	10313	O3*	C	A	501	163.838	88.926	23.821	1.00	65.19	A16S
ATOM	10314	P	G	A	502	165.219	89.643	23.460	1.00	51.72	A16S
ATOM	10315	O1P	G	A	502	166.100	88.711	22.739	1.00	65.38	A16S
ATOM	10316	O2P	G	A	502	165.701	90.283	24.691	1.00	65.38	A16S
ATOM	10317	O5*	G	A	502	164.793	90.834	22.499	1.00	51.72	A16S
ATOM	10318	C5*	G	A	502	164.253	90.576	21.200	1.00	51.72	A16S
ATOM	10319	C4*	G	A	502	163.906	91.874	20.517	1.00	51.72	A16S
ATOM	10320	O4*	G	A	502	162.801	92.512	21.208	1.00	51.72	A16S
ATOM	10321	C1*	G	A	502	162.964	93.922	21.171	1.00	51.72	A16S
ATOM	10322	N9	G	A	502	163.088	94.413	22.544	1.00	65.38	A16S
ATOM	10323	C4	G	A	502	163.073	95.731	22.941	1.00	65.38	A16S
ATOM	10324	N3	G	A	502	162.888	96.798	22.138	1.00	65.38	A16S
ATOM	10325	C2	G	A	502	162.953	97.929	22.806	1.00	65.38	A16S
ATOM	10326	N2	G	A	502	162.777	99.083	22.174	1.00	65.38	A16S
ATOM	10327	N1	G	A	502	163.195	98.017	24.146	1.00	65.38	A16S
ATOM	10328	C6	G	A	502	163.401	96.941	24.993	1.00	65.38	A16S
ATOM	10329	O6	G	A	502	163.644	97.142	26.187	1.00	65.38	A16S
ATOM	10330	C5	G	A	502	163.310	95.708	24.297	1.00	65.38	A16S
ATOM	10331	N7	G	A	502	163.428	94.401	24.755	1.00	65.38	A16S
ATOM	10332	C8	G	A	502	163.283	93.668	23.685	1.00	65.38	A16S
ATOM	10333	C2*	G	A	502	164.224	94.217	20.351	1.00	51.72	A16S
ATOM	10334	O2*	G	A	502	163.870	94.455	19.004	1.00	51.72	A16S
ATOM	10335	C3*	G	A	502	165.003	92.922	20.506	1.00	51.72	A16S
ATOM	10336	O3*	G	A	502	165.910	92.721	19.444	1.00	51.72	A16S
ATOM	10337	P	C	A	503	167.434	93.196	19.614	1.00	60.34	A16S
ATOM	10338	O1P	C	A	503	168.202	92.644	18.455	1.00	68.36	A16S
ATOM	10339	O2P	C	A	503	167.882	92.882	21.009	1.00	68.36	A16S
ATOM	10340	O5*	C	A	503	167.353	94.777	19.439	1.00	60.34	A16S
ATOM	10341	C5*	C	A	503	166.949	95.338	18.185	1.00	60.34	A16S
ATOM	10342	C4*	C	A	503	166.506	96.758	18.370	1.00	60.34	A16S
ATOM	10343	O4*	C	A	503	165.506	96.788	19.418	1.00	60.34	A16S
ATOM	10344	C1*	C	A	503	165.636	97.975	20.172	1.00	60.34	A16S
ATOM	10345	N1	C	A	503	165.948	97.611	21.568	1.00	68.36	A16S
ATOM	10346	C6	C	A	503	166.053	96.307	21.945	1.00	68.36	A16S
ATOM	10347	C2	C	A	503	166.149	98.628	22.505	1.00	68.36	A16S
ATOM	10348	O2	C	A	503	166.022	99.801	22.150	1.00	68.36	A16S
ATOM	10349	N3	C	A	503	166.474	98.307	23.770	1.00	68.36	A16S
ATOM	10350	C4	C	A	503	166.586	97.034	24.120	1.00	68.36	A16S
ATOM	10351	N4	C	A	503	166.917	96.763	25.373	1.00	68.36	A16S
ATOM	10352	C5	C	A	503	166.367	95.979	23.200	1.00	68.36	A16S
ATOM	10353	C2*	C	A	503	166.749	98.801	19.528	1.00	60.34	A16S
ATOM	10354	O2*	C	A	503	166.173	99.702	18.612	1.00	60.34	A16S
ATOM	10355	C3*	C	A	503	167.574	97.724	18.840	1.00	60.34	A16S
ATOM	10356	O3*	C	A	503	168.345	98.240	17.759	1.00	60.34	A16S
ATOM	10357	P	C	A	504	169.865	98.713	18.018	1.00	59.53	A16S
ATOM	10358	O1P	C	A	504	170.451	99.076	16.698	1.00	71.80	A16S
ATOM	10359	O2P	C	A	504	170.539	97.710	18.869	1.00	71.80	A16S
ATOM	10360	O5*	C	A	504	169.726	100.047	18.867	1.00	59.53	A16S
ATOM	10361	C5*	C	A	504	169.101	101.198	18.293	1.00	59.53	A16S
ATOM	10362	C4*	C	A	504	169.222	102.377	19.219	1.00	59.53	A16S
ATOM	10363	O4*	C	A	504	168.370	102.183	20.368	1.00	59.53	A16S
ATOM	10364	C1*	C	A	504	168.988	102.737	21.504	1.00	59.53	A16S
ATOM	10365	N1	C	A	504	169.189	101.678	22.489	1.00	71.80	A16S
ATOM	10366	C6	C	A	504	169.083	100.361	22.148	1.00	71.80	A16S
ATOM	10367	C2	C	A	504	169.483	102.046	23.792	1.00	71.80	A16S
ATOM	10368	O2	C	A	504	169.591	103.250	24.059	1.00	71.80	A16S
ATOM	10369	N3	C	A	504	169.644	101.091	24.729	1.00	71.80	A16S
ATOM	10370	C4	C	A	504	169.524	99.811	24.395	1.00	71.80	A16S
ATOM	10371	N4	C	A	504	169.677	98.901	25.356	1.00	71.80	A16S
ATOM	10372	C5	C	A	504	169.239	99.404	23.061	1.00	71.80	A16S
ATOM	10373	C2*	C	A	504	170.305	103.372	21.072	1.00	59.53	A16S
ATOM	10374	O2*	C	A	504	170.067	104.743	20.856	1.00	59.53	A16S
ATOM	10375	C3*	C	A	504	170.606	102.615	19.790	1.00	59.53	A16S
ATOM	10376	O3*	C	A	504	171.410	103.366	18.892	1.00	59.53	A16S
ATOM	10377	P	G	A	505	172.892	102.851	18.540	1.00	84.61	A16S
ATOM	10378	O1P	G	A	505	173.765	103.297	19.654	1.00	64.68	A16S
ATOM	10379	O2P	G	A	505	172.815	101.395	18.192	1.00	64.68	A16S
ATOM	10380	O5*	G	A	505	173.296	103.672	17.233	1.00	84.61	A16S
ATOM	10381	C5*	G	A	505	173.992	104.923	17.339	1.00	84.61	A16S
ATOM	10382	C4*	G	A	505	174.225	105.518	15.972	1.00	84.61	A16S
ATOM	10383	O4*	G	A	505	175.011	104.609	15.166	1.00	84.61	A16S
ATOM	10384	C1*	G	A	505	174.729	104.832	13.797	1.00	84.61	A16S
ATOM	10385	N9	G	A	505	174.412	103.560	13.158	1.00	64.68	A16S
ATOM	10386	C4	G	A	505	174.237	103.355	11.808	1.00	64.68	A16S
ATOM	10387	N3	G	A	505	174.355	104.293	10.841	1.00	64.68	A16S
ATOM	10388	C2	G	A	505	174.100	103.803	9.636	1.00	64.68	A16S



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ATOM	10389	N2	G	A	505	174.166	104.607	8.560	1.00	64.68	A16S
ATOM	10390	N1	G	A	505	173.763	102.491	9.398	1.00	64.68	A16S
ATOM	10391	C6	G	A	505	173.644	101.503	10.379	1.00	64.68	A16S
ATOM	10392	O6	G	A	505	173.343	100.341	10.059	1.00	64.68	A16S
ATOM	10393	C5	G	A	505	173.910	102.021	11.680	1.00	64.68	A16S
ATOM	10394	N7	G	A	505	173.900	101.393	12.921	1.00	64.68	A16S
ATOM	10395	C8	G	A	505	174.208	102.342	13.765	1.00	64.68	A16S
ATOM	10396	C2*	G	A	505	173.586	105.846	13.707	1.00	84.61	A16S
ATOM	10397	O2*	G	A	505	174.112	107.117	13.378	1.00	84.61	A16S
ATOM	10398	C3*	G	A	505	173.004	105.798	15.115	1.00	84.61	A16S
ATOM	10399	O3*	G	A	505	172.411	107.042	15.449	1.00	84.61	A16S
ATOM	10400	P	G	A	506	170.850	107.276	15.162	1.00	57.96	A16S
ATOM	10401	O1P	G	A	506	170.501	108.606	15.700	1.00	63.15	A16S
ATOM	10402	O2P	G	A	506	170.103	106.074	15.636	1.00	63.15	A16S
ATOM	10403	O5*	G	A	506	170.760	107.392	13.579	1.00	57.96	A16S
ATOM	10404	C5*	G	A	506	171.187	108.596	12.935	1.00	57.96	A16S
ATOM	10405	C4*	G	A	506	170.869	108.547	11.468	1.00	57.96	A16S
ATOM	10406	O4*	G	A	506	171.684	107.535	10.834	1.00	57.96	A16S
ATOM	10407	C1*	G	A	506	170.934	106.881	9.832	1.00	57.96	A16S
ATOM	10408	N9	G	A	506	170.899	105.457	10.165	1.00	63.15	A16S
ATOM	10409	C4	G	A	506	170.579	104.416	9.316	1.00	63.15	A16S
ATOM	10410	N3	G	A	506	170.210	104.529	8.023	1.00	63.15	A16S
ATOM	10411	C2	G	A	506	169.971	103.352	7.476	1.00	63.15	A16S
ATOM	10412	N2	G	A	506	169.587	103.279	6.199	1.00	63.15	A16S
ATOM	10413	N1	G	A	506	170.092	102.161	8.139	1.00	63.15	A16S
ATOM	10414	C6	G	A	506	170.477	102.018	9.464	1.00	63.15	A16S
ATOM	10415	O6	G	A	506	170.569	100.892	9.961	1.00	63.15	A16S
ATOM	10416	C5	G	A	506	170.725	103.272	10.071	1.00	63.15	A16S
ATOM	10417	N7	G	A	506	171.114	103.583	11.369	1.00	63.15	A16S
ATOM	10418	C8	G	A	506	171.199	104.885	11.381	1.00	63.15	A16S
ATOM	10419	C2*	G	A	506	169.560	107.560	9.748	1.00	57.96	A16S
ATOM	10420	O2*	G	A	506	169.571	108.532	8.722	1.00	57.96	A16S
ATOM	10421	C3*	G	A	506	169.433	108.189	11.132	1.00	57.96	A16S
ATOM	10422	O3*	G	A	506	168.616	109.361	11.123	1.00	57.96	A16S
ATOM	10423	P	C	A	507	167.176	109.338	11.839	1.00	64.86	A16S
ATOM	10424	O1P	C	A	507	166.668	110.739	11.772	1.00	64.21	A16S
ATOM	10425	O2P	C	A	507	167.303	108.665	13.165	1.00	64.21	A16S
ATOM	10426	O5*	C	A	507	166.279	108.477	10.839	1.00	64.86	A16S
ATOM	10427	C5*	C	A	507	165.859	109.072	9.600	1.00	64.86	A16S
ATOM	10428	C4*	C	A	507	165.384	108.035	8.622	1.00	64.86	A16S
ATOM	10429	O4*	C	A	507	166.460	107.133	8.288	1.00	64.86	A16S
ATOM	10430	C1*	C	A	507	165.922	105.863	7.977	1.00	64.86	A16S
ATOM	10431	N1	C	A	507	166.481	104.874	8.909	1.00	64.21	A16S
ATOM	10432	C6	C	A	507	166.926	105.246	10.145	1.00	64.21	A16S
ATOM	10433	C2	C	A	507	166.536	103.539	8.516	1.00	64.21	A16S
ATOM	10434	O2	C	A	507	166.134	103.230	7.384	1.00	64.21	A16S
ATOM	10435	N3	C	A	507	167.019	102.618	9.376	1.00	64.21	A16S
ATOM	10436	C4	C	A	507	167.437	102.990	10.585	1.00	64.21	A16S
ATOM	10437	N4	C	A	507	167.894	102.049	11.409	1.00	64.21	A16S
ATOM	10438	C5	C	A	507	167.404	104.343	11.007	1.00	64.21	A16S
ATOM	10439	C2*	C	A	507	164.400	105.954	8.105	1.00	64.86	A16S
ATOM	10440	O2*	C	A	507	163.852	106.194	6.824	1.00	64.86	A16S
ATOM	10441	C3*	C	A	507	164.238	107.140	9.048	1.00	64.86	A16S
ATOM	10442	O3*	C	A	507	162.998	107.797	8.832	1.00	64.86	A16S
ATOM	10443	P	C	A	508	161.818	107.664	9.915	1.00	61.39	A16S
ATOM	10444	O1P	C	A	508	161.234	106.300	9.836	1.00	77.44	A16S
ATOM	10445	O2P	C	A	508	160.946	108.846	9.730	1.00	77.44	A16S
ATOM	10446	O5*	C	A	508	162.557	107.795	11.314	1.00	61.39	A16S
ATOM	10447	C5*	C	A	508	161.819	108.015	12.528	1.00	61.39	A16S
ATOM	10448	C4*	C	A	508	162.632	107.549	13.706	1.00	61.39	A16S
ATOM	10449	O4*	C	A	508	162.598	106.100	13.758	1.00	61.39	A16S
ATOM	10450	C1*	C	A	508	163.914	105.603	13.697	1.00	61.39	A16S
ATOM	10451	N1	C	A	508	163.928	104.383	12.886	1.00	77.44	A16S
ATOM	10452	C6	C	A	508	163.432	104.369	11.612	1.00	77.44	A16S
ATOM	10453	C2	C	A	508	164.475	103.232	13.440	1.00	77.44	A16S
ATOM	10454	O2	C	A	508	164.920	103.277	14.600	1.00	77.44	A16S
ATOM	10455	N3	C	A	508	164.516	102.097	12.706	1.00	77.44	A16S
ATOM	10456	C4	C	A	508	164.042	102.092	11.461	1.00	77.44	A16S
ATOM	10457	N4	C	A	508	164.118	100.948	10.771	1.00	77.44	A16S
ATOM	10458	C5	C	A	508	163.473	103.257	10.868	1.00	77.44	A16S
ATOM	10459	C2*	C	A	508	164.783	106.703	13.101	1.00	61.39	A16S
ATOM	10460	O2*	C	A	508	166.118	106.525	13.522	1.00	61.39	A16S
ATOM	10461	C3*	C	A	508	164.103	107.964	13.628	1.00	61.39	A16S
ATOM	10462	O3*	C	A	508	164.604	108.314	14.918	1.00	61.39	A16S
ATOM	10463	P	A	A	509	164.075	109.652	15.640	1.00	51.60	A16S
ATOM	10464	O1P	A	A	509	163.538	110.581	14.607	1.00	69.60	A16S
ATOM	10465	O2P	A	A	509	165.147	110.126	16.556	1.00	69.60	A16S



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ATOM	10466	O5*	A	A	509	162.839	109.113	16.494	1.00	51.60	A16S
ATOM	10467	C5*	A	A	509	162.234	109.924	17.508	1.00	51.60	A16S
ATOM	10468	C4*	A	A	509	162.412	109.291	18.873	1.00	51.60	A16S
ATOM	10469	O4*	A	A	509	161.402	108.268	19.111	1.00	51.60	A16S
ATOM	10470	C1*	A	A	509	161.960	107.206	19.870	1.00	51.60	A16S
ATOM	10471	N9	A	A	509	162.151	106.071	18.964	1.00	69.60	A16S
ATOM	10472	C4	A	A	509	162.185	104.727	19.273	1.00	69.60	A16S
ATOM	10473	N3	A	A	509	161.977	104.150	20.468	1.00	69.60	A16S
ATOM	10474	C2	A	A	509	162.120	102.827	20.387	1.00	69.60	A16S
ATOM	10475	N1	A	A	509	162.439	102.074	19.334	1.00	69.60	A16S
ATOM	10476	C6	A	A	509	162.657	102.684	18.150	1.00	69.60	A16S
ATOM	10477	N6	A	A	509	163.015	101.942	17.104	1.00	69.60	A16S
ATOM	10478	C5	A	A	509	162.508	104.079	18.095	1.00	69.60	A16S
ATOM	10479	N7	A	A	509	162.630	104.987	17.051	1.00	69.60	A16S
ATOM	10480	C8	A	A	509	162.399	106.147	17.613	1.00	69.60	A16S
ATOM	10481	C2*	A	A	509	163.338	107.681	20.326	1.00	51.60	A16S
ATOM	10482	O2*	A	A	509	163.201	108.354	21.556	1.00	51.60	A16S
ATOM	10483	C3*	A	A	509	163.726	108.582	19.159	1.00	51.60	A16S
ATOM	10484	O3*	A	A	509	164.882	109.437	19.218	1.00	51.60	A16S
ATOM	10485	P	A	A	510	165.212	110.303	20.521	1.00	51.67	A16S
ATOM	10486	O1P	A	A	510	163.922	110.687	21.161	1.00	75.64	A16S
ATOM	10487	O2P	A	A	510	166.156	111.361	20.080	1.00	75.64	A16S
ATOM	10488	O5*	A	A	510	166.003	109.315	21.478	1.00	51.67	A16S
ATOM	10489	C5*	A	A	510	165.913	109.467	22.898	1.00	51.67	A16S
ATOM	10490	C4*	A	A	510	166.260	108.172	23.573	1.00	51.67	A16S
ATOM	10491	O4*	A	A	510	165.501	107.105	22.953	1.00	51.67	A16S
ATOM	10492	C1*	A	A	510	166.296	105.948	22.859	1.00	51.67	A16S
ATOM	10493	N9	A	A	510	166.413	105.612	21.447	1.00	75.64	A16S
ATOM	10494	C4	A	A	510	166.009	104.430	20.891	1.00	75.64	A16S
ATOM	10495	N3	A	A	510	165.455	103.386	21.529	1.00	75.64	A16S
ATOM	10496	C2	A	A	510	165.182	102.409	20.673	1.00	75.64	A16S
ATOM	10497	N1	A	A	510	165.376	102.361	19.349	1.00	75.64	A16S
ATOM	10498	C6	A	A	510	165.928	103.431	18.737	1.00	75.64	A16S
ATOM	10499	N6	A	A	510	166.102	103.386	17.413	1.00	75.64	A16S
ATOM	10500	C5	A	A	510	166.279	104.534	19.541	1.00	75.64	A16S
ATOM	10501	N7	A	A	510	166.857	105.763	19.250	1.00	75.64	A16S
ATOM	10502	C8	A	A	510	166.915	106.363	20.412	1.00	75.64	A16S
ATOM	10503	C2*	A	A	510	167.632	106.245	23.537	1.00	51.67	A16S
ATOM	10504	O2*	A	A	510	167.542	105.841	24.887	1.00	51.67	A16S
ATOM	10505	C3*	A	A	510	167.708	107.758	23.411	1.00	51.67	A16S
ATOM	10506	O3*	A	A	510	168.486	108.357	24.432	1.00	51.67	A16S
ATOM	10507	P	C	A	511	169.209	109.764	24.154	1.00	60.29	A16S
ATOM	10508	O1P	C	A	511	168.467	110.800	24.917	1.00	77.40	A16S
ATOM	10509	O2P	C	A	511	169.383	109.924	22.685	1.00	77.40	A16S
ATOM	10510	O5*	C	A	511	170.636	109.573	24.832	1.00	60.29	A16S
ATOM	10511	C5*	C	A	511	171.844	109.682	24.066	1.00	60.29	A16S
ATOM	10512	C4*	C	A	511	173.027	109.390	24.944	1.00	60.29	A16S
ATOM	10513	O4*	C	A	511	172.915	108.046	25.476	1.00	60.29	A16S
ATOM	10514	C1*	C	A	511	174.118	107.357	25.232	1.00	60.29	A16S
ATOM	10515	N1	C	A	511	173.839	105.926	25.171	1.00	77.40	A16S
ATOM	10516	C6	C	A	511	173.934	105.220	24.006	1.00	77.40	A16S
ATOM	10517	C2	C	A	511	173.471	105.291	26.354	1.00	77.40	A16S
ATOM	10518	O2	C	A	511	173.387	105.969	27.399	1.00	77.40	A16S
ATOM	10519	N3	C	A	511	173.212	103.968	26.341	1.00	77.40	A16S
ATOM	10520	C4	C	A	511	173.304	103.287	25.203	1.00	77.40	A16S
ATOM	10521	N4	C	A	511	173.027	101.988	25.238	1.00	77.40	A16S
ATOM	10522	C5	C	A	511	173.679	103.909	23.978	1.00	77.40	A16S
ATOM	10523	C2*	C	A	511	174.732	108.011	24.003	1.00	60.29	A16S
ATOM	10524	O2*	C	A	511	176.113	107.709	23.955	1.00	60.29	A16S
ATOM	10525	C3*	C	A	511	174.400	109.476	24.282	1.00	60.29	A16S
ATOM	10526	O3*	C	A	511	175.294	109.959	25.286	1.00	60.29	A16S
ATOM	10527	P	U	A	512	176.436	111.024	24.916	1.00	75.10	A16S
ATOM	10528	O1P	U	A	512	175.854	112.362	25.219	1.00	71.51	A16S
ATOM	10529	O2P	U	A	512	176.981	110.747	23.556	1.00	71.51	A16S
ATOM	10530	O5*	U	A	512	177.575	110.689	25.976	1.00	75.10	A16S
ATOM	10531	C5*	U	A	512	178.336	109.461	25.894	1.00	75.10	A16S
ATOM	10532	C4*	U	A	512	178.482	108.839	27.267	1.00	75.10	A16S
ATOM	10533	O4*	U	A	512	177.295	108.066	27.586	1.00	75.10	A16S
ATOM	10534	C1*	U	A	512	177.659	106.916	28.336	1.00	75.10	A16S
ATOM	10535	N1	U	A	512	177.236	105.716	27.601	1.00	71.51	A16S
ATOM	10536	C6	U	A	512	177.008	105.745	26.249	1.00	71.51	A16S
ATOM	10537	C2	U	A	512	177.087	104.543	28.320	1.00	71.51	A16S
ATOM	10538	O2	U	A	512	177.259	104.475	29.527	1.00	71.51	A16S
ATOM	10539	N3	U	A	512	176.727	103.449	27.577	1.00	71.51	A16S
ATOM	10540	C4	U	A	512	176.502	103.408	26.222	1.00	71.51	A16S
ATOM	10541	O4	U	A	512	176.245	102.332	25.685	1.00	71.51	A16S
ATOM	10542	C5	U	A	512	176.657	104.662	25.556	1.00	71.51	A16S



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ATOM	10543	C2*	U	A	512	179.172	106.942	28.547	1.00	75.10	A16S
ATOM	10544	O2*	U	A	512	179.473	107.449	29.833	1.00	75.10	A16S
ATOM	10545	C3*	U	A	512	179.625	107.845	27.405	1.00	75.10	A16S
ATOM	10546	O3*	U	A	512	180.841	108.520	27.706	1.00	75.10	A16S
ATOM	10547	P	C	A	513	182.244	107.815	27.376	1.00	71.31	A16S
ATOM	10548	O1P	C	A	513	183.320	108.801	27.678	1.00	90.68	A16S
ATOM	10549	O2P	C	A	513	182.148	107.234	26.010	1.00	90.68	A16S
ATOM	10550	O5*	C	A	513	182.321	106.624	28.434	1.00	71.31	A16S
ATOM	10551	C5*	C	A	513	182.680	106.870	29.807	1.00	71.31	A16S
ATOM	10552	C4*	C	A	513	182.964	105.564	30.507	1.00	71.31	A16S
ATOM	10553	O4*	C	A	513	181.731	104.814	30.620	1.00	71.31	A16S
ATOM	10554	C1*	C	A	513	181.990	103.434	30.404	1.00	71.31	A16S
ATOM	10555	N1	C	A	513	181.239	103.002	29.208	1.00	90.68	A16S
ATOM	10556	C6	C	A	513	180.822	103.911	28.271	1.00	90.68	A16S
ATOM	10557	C2	C	A	513	180.955	101.641	29.044	1.00	90.68	A16S
ATOM	10558	O2	C	A	513	181.351	100.836	29.906	1.00	90.68	A16S
ATOM	10559	N3	C	A	513	180.260	101.239	27.954	1.00	90.68	A16S
ATOM	10560	C4	C	A	513	179.854	102.137	27.052	1.00	90.68	A16S
ATOM	10561	N4	C	A	513	179.165	101.699	25.994	1.00	90.68	A16S
ATOM	10562	C5	C	A	513	180.135	103.527	27.192	1.00	90.68	A16S
ATOM	10563	C2*	C	A	513	183.499	103.254	30.243	1.00	71.31	A16S
ATOM	10564	O2*	C	A	513	184.077	102.918	31.484	1.00	71.31	A16S
ATOM	10565	C3*	C	A	513	183.922	104.634	29.772	1.00	71.31	A16S
ATOM	10566	O3*	C	A	513	185.274	104.891	30.097	1.00	71.31	A16S
ATOM	10567	P	C	A	514	186.430	104.335	29.136	1.00	84.78	A16S
ATOM	10568	O1P	C	A	514	187.717	104.861	29.661	1.00	90.03	A16S
ATOM	10569	O2P	C	A	514	186.049	104.632	27.735	1.00	90.03	A16S
ATOM	10570	O5*	C	A	514	186.360	102.757	29.354	1.00	84.78	A16S
ATOM	10571	C5*	C	A	514	186.641	102.189	30.640	1.00	84.78	A16S
ATOM	10572	C4*	C	A	514	186.311	100.718	30.657	1.00	84.78	A16S
ATOM	10573	O4*	C	A	514	184.897	100.531	30.415	1.00	84.78	A16S
ATOM	10574	C1*	C	A	514	184.689	99.315	29.715	1.00	84.78	A16S
ATOM	10575	N1	C	A	514	183.998	99.614	28.453	1.00	90.03	A16S
ATOM	10576	C6	C	A	514	184.039	100.867	27.907	1.00	90.03	A16S
ATOM	10577	C2	C	A	514	183.298	98.591	27.813	1.00	90.03	A16S
ATOM	10578	O2	C	A	514	183.274	97.465	28.331	1.00	90.03	A16S
ATOM	10579	N3	C	A	514	182.667	98.852	26.650	1.00	90.03	A16S
ATOM	10580	C4	C	A	514	182.715	100.076	26.125	1.00	90.03	A16S
ATOM	10581	N4	C	A	514	182.082	100.288	24.975	1.00	90.03	A16S
ATOM	10582	C5	C	A	514	183.417	101.138	26.757	1.00	90.03	A16S
ATOM	10583	C2*	C	A	514	186.051	98.665	29.487	1.00	84.78	A16S
ATOM	10584	O2*	C	A	514	186.285	97.673	30.465	1.00	84.78	A16S
ATOM	10585	C3*	C	A	514	186.982	99.863	29.602	1.00	84.78	A16S
ATOM	10586	O3*	C	A	514	188.280	99.474	29.981	1.00	84.78	A16S
ATOM	10587	P	G	A	515	189.337	99.083	28.842	1.00	74.09	A16S
ATOM	10588	O1P	G	A	515	190.647	98.883	29.516	1.00	107.47	A16S
ATOM	10589	O2P	G	A	515	189.225	100.069	27.728	1.00	107.47	A16S
ATOM	10590	O5*	G	A	515	188.820	97.670	28.325	1.00	74.09	A16S
ATOM	10591	C5*	G	A	515	188.979	96.497	29.128	1.00	74.09	A16S
ATOM	10592	C4*	G	A	515	188.406	95.305	28.415	1.00	74.09	A16S
ATOM	10593	O4*	G	A	515	186.981	95.503	28.245	1.00	74.09	A16S
ATOM	10594	C1*	G	A	515	186.572	94.970	27.000	1.00	74.09	A16S
ATOM	10595	N9	G	A	515	186.078	96.066	26.173	1.00	107.47	A16S
ATOM	10596	C4	G	A	515	185.374	95.947	25.005	1.00	107.47	A16S
ATOM	10597	N3	G	A	515	184.974	94.793	24.440	1.00	107.47	A16S
ATOM	10598	C2	G	A	515	184.346	94.997	23.301	1.00	107.47	A16S
ATOM	10599	N2	G	A	515	183.868	93.953	22.613	1.00	107.47	A16S
ATOM	10600	N1	G	A	515	184.138	96.239	22.754	1.00	107.47	A16S
ATOM	10601	C6	G	A	515	184.548	97.440	23.321	1.00	107.47	A16S
ATOM	10602	O6	G	A	515	184.331	98.509	22.738	1.00	107.47	A16S
ATOM	10603	C5	G	A	515	185.203	97.234	24.547	1.00	107.47	A16S
ATOM	10604	N7	G	A	515	185.757	98.148	25.428	1.00	107.47	A16S
ATOM	10605	C8	G	A	515	186.258	97.412	26.381	1.00	107.47	A16S
ATOM	10606	C2*	G	A	515	187.792	94.310	26.353	1.00	74.09	A16S
ATOM	10607	O2*	G	A	515	187.794	92.926	26.644	1.00	74.09	A16S
ATOM	10608	C3*	G	A	515	188.939	95.065	27.012	1.00	74.09	A16S
ATOM	10609	O3*	G	A	515	190.151	94.312	27.022	1.00	74.09	A16S
ATOM	10610	P	U	A	516	191.212	94.490	25.824	1.00	84.32	A16S
ATOM	10611	O1P	U	A	516	192.263	93.455	25.976	1.00	91.66	A16S
ATOM	10612	O2P	U	A	516	191.598	95.921	25.722	1.00	91.66	A16S
ATOM	10613	O5*	U	A	516	190.383	94.132	24.519	1.00	84.32	A16S
ATOM	10614	C5*	U	A	516	189.798	92.831	24.324	1.00	84.32	A16S
ATOM	10615	C4*	U	A	516	189.092	92.802	22.993	1.00	84.32	A16S
ATOM	10616	O4*	U	A	516	188.043	93.802	23.006	1.00	84.32	A16S
ATOM	10617	C1*	U	A	516	187.938	94.396	21.726	1.00	84.32	A16S
ATOM	10618	N1	U	A	516	187.809	95.858	21.873	1.00	91.66	A16S
ATOM	10619	C6	U	A	516	188.109	96.498	23.058	1.00	91.66	A16S



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ATOM	10620	C2	U	A	516	187.336	96.575	20.787	1.00	91.66	A16S
ATOM	10621	O2	U	A	516	187.117	96.066	19.697	1.00	91.66	A16S
ATOM	10622	N3	U	A	516	187.136	97.916	21.018	1.00	91.66	A16S
ATOM	10623	C4	U	A	516	187.373	98.609	22.189	1.00	91.66	A16S
ATOM	10624	O4	U	A	516	186.986	99.779	22.289	1.00	91.66	A16S
ATOM	10625	C5	U	A	516	187.918	97.812	23.244	1.00	91.66	A16S
ATOM	10626	C2*	U	A	516	189.043	93.834	20.824	1.00	84.32	A16S
ATOM	10627	O2*	U	A	516	188.496	92.880	19.937	1.00	84.32	A16S
ATOM	10628	C3*	U	A	516	189.994	93.196	21.833	1.00	84.32	A16S
ATOM	10629	O3*	U	A	516	190.617	92.030	21.310	1.00	84.32	A16S
ATOM	10630	P	G	A	517	192.153	92.084	20.852	1.00	80.81	A16S
ATOM	10631	O1P	G	A	517	192.564	90.675	20.601	1.00	91.73	A16S
ATOM	10632	O2P	G	A	517	192.906	92.909	21.824	1.00	91.73	A16S
ATOM	10633	O5*	G	A	517	192.134	92.862	19.462	1.00	80.81	A16S
ATOM	10634	C5*	G	A	517	191.345	92.370	18.364	1.00	80.81	A16S
ATOM	10635	C4*	G	A	517	191.234	93.420	17.290	1.00	80.81	A16S
ATOM	10636	O4*	G	A	517	190.708	94.633	17.878	1.00	80.81	A16S
ATOM	10637	C1*	G	A	517	191.604	95.698	17.663	1.00	80.81	A16S
ATOM	10638	N1	G	A	517	191.560	96.533	18.853	1.00	91.73	A16S
ATOM	10639	C4	G	A	517	190.916	97.736	18.959	1.00	91.73	A16S
ATOM	10640	N3	G	A	517	190.275	98.376	17.963	1.00	91.73	A16S
ATOM	10641	C2	G	A	517	189.709	99.493	18.378	1.00	91.73	A16S
ATOM	10642	N2	G	A	517	189.036	100.254	17.507	1.00	91.73	A16S
ATOM	10643	N1	G	A	517	189.760	99.946	19.675	1.00	91.73	A16S
ATOM	10644	C6	G	A	517	190.412	99.301	20.721	1.00	91.73	A16S
ATOM	10645	O6	G	A	517	190.382	99.784	21.863	1.00	91.73	A16S
ATOM	10646	C5	G	A	517	191.039	98.103	20.281	1.00	91.73	A16S
ATOM	10647	N7	G	A	517	191.791	97.170	20.981	1.00	91.73	A16S
ATOM	10648	C8	G	A	517	192.086	96.262	20.091	1.00	91.73	A16S
ATOM	10649	C2*	G	A	517	192.957	95.075	17.330	1.00	80.81	A16S
ATOM	10650	O2*	G	A	517	193.714	95.951	16.517	1.00	80.81	A16S
ATOM	10651	C3*	G	A	517	192.529	93.808	16.595	1.00	80.81	A16S
ATOM	10652	O3*	G	A	517	192.163	94.138	15.266	1.00	80.81	A16S
ATOM	10653	P	C	A	518	193.033	93.607	14.036	1.00	82.77	A16S
ATOM	10654	O1P	C	A	518	193.839	92.451	14.499	1.00	102.47	A16S
ATOM	10655	O2P	C	A	518	193.707	94.789	13.444	1.00	102.47	A16S
ATOM	10656	O5*	C	A	518	191.943	93.054	13.016	1.00	82.77	A16S
ATOM	10657	C5*	C	A	518	190.902	93.901	12.511	1.00	82.77	A16S
ATOM	10658	C4*	C	A	518	190.374	93.352	11.211	1.00	82.77	A16S
ATOM	10659	O4*	C	A	518	189.237	94.151	10.804	1.00	82.77	A16S
ATOM	10660	C1*	C	A	518	189.182	94.219	9.391	1.00	82.77	A16S
ATOM	10661	N1	C	A	518	188.910	95.611	8.965	1.00	102.47	A16S
ATOM	10662	C6	C	A	518	188.790	96.618	9.884	1.00	102.47	A16S
ATOM	10663	C2	C	A	518	188.753	95.890	7.586	1.00	102.47	A16S
ATOM	10664	O2	C	A	518	188.883	94.970	6.756	1.00	102.47	A16S
ATOM	10665	N3	C	A	518	188.464	97.153	7.198	1.00	102.47	A16S
ATOM	10666	C4	C	A	518	188.336	98.120	8.109	1.00	102.47	A16S
ATOM	10667	N4	C	A	518	188.036	99.344	7.676	1.00	102.47	A16S
ATOM	10668	C5	C	A	518	188.506	97.872	9.505	1.00	102.47	A16S
ATOM	10669	C2*	C	A	518	190.425	93.536	8.812	1.00	82.77	A16S
ATOM	10670	O2*	C	A	518	190.050	92.306	8.245	1.00	82.77	A16S
ATOM	10671	C3*	C	A	518	191.334	93.423	10.030	1.00	82.77	A16S
ATOM	10672	O3*	C	A	518	192.351	92.386	10.002	1.00	82.77	A16S
ATOM	10673	P	C	A	519	191.969	90.800	9.998	1.00	58.62	A16S
ATOM	10674	O1P	C	A	519	193.255	90.130	10.345	1.00	77.78	A16S
ATOM	10675	O2P	C	A	519	191.253	90.381	8.759	1.00	77.78	A16S
ATOM	10676	O5*	C	A	519	191.018	90.605	11.270	1.00	58.62	A16S
ATOM	10677	C5*	C	A	519	190.318	89.355	11.518	1.00	58.62	A16S
ATOM	10678	C4*	C	A	519	190.338	89.023	12.996	1.00	58.62	A16S
ATOM	10679	O4*	C	A	519	190.351	90.232	13.787	1.00	58.62	A16S
ATOM	10680	C1*	C	A	519	189.820	89.942	15.064	1.00	58.62	A16S
ATOM	10681	N1	C	A	519	189.076	91.108	15.586	1.00	77.78	A16S
ATOM	10682	C6	C	A	519	188.764	92.167	14.782	1.00	77.78	A16S
ATOM	10683	C2	C	A	519	188.710	91.122	16.945	1.00	77.78	A16S
ATOM	10684	O2	C	A	519	188.980	90.139	17.652	1.00	77.78	A16S
ATOM	10685	N3	C	A	519	188.073	92.201	17.449	1.00	77.78	A16S
ATOM	10686	C4	C	A	519	187.787	93.235	16.659	1.00	77.78	A16S
ATOM	10687	N4	C	A	519	187.159	94.286	17.200	1.00	77.78	A16S
ATOM	10688	C5	C	A	519	188.128	93.241	15.274	1.00	77.78	A16S
ATOM	10689	C2*	C	A	519	189.068	88.611	14.999	1.00	58.62	A16S
ATOM	10690	O2*	C	A	519	189.718	87.688	15.839	1.00	58.62	A16S
ATOM	10691	O3*	C	A	519	189.132	88.254	13.511	1.00	58.62	A16S
ATOM	10692	C3*	C	A	519	189.334	86.861	13.347	1.00	58.62	A16S
ATOM	10693	P	A	A	520	188.070	85.891	13.161	1.00	64.14	A16S
ATOM	10694	O1P	A	A	520	188.534	84.472	13.190	1.00	79.86	A16S
ATOM	10695	O2P	A	A	520	187.309	86.396	11.989	1.00	79.86	A16S
ATOM	10696	O5*	A	A	520	187.188	86.152	14.458	1.00	64.14	A16S



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ATOM	10697	C5*	A	A	520	187.563	85.604	15.726	1.00	64.14	A16S
ATOM	10698	C4*	A	A	520	186.653	86.131	16.801	1.00	64.14	A16S
ATOM	10699	O4*	A	A	520	186.908	87.545	17.015	1.00	64.14	A16S
ATOM	10700	C1*	A	A	520	185.699	88.197	17.373	1.00	64.14	A16S
ATOM	10701	N9	A	A	520	185.500	89.350	16.484	1.00	79.86	A16S
ATOM	10702	C4	A	A	520	185.123	90.617	16.870	1.00	79.86	A16S
ATOM	10703	N3	A	A	520	184.851	91.045	18.114	1.00	79.86	A16S
ATOM	10704	C2	A	A	520	184.540	92.344	18.112	1.00	79.86	A16S
ATOM	10705	N1	A	A	520	184.474	93.200	17.087	1.00	79.86	A16S
ATOM	10706	C6	A	A	520	184.746	92.742	15.846	1.00	79.86	A16S
ATOM	10707	N6	A	A	520	184.680	93.602	14.825	1.00	79.86	A16S
ATOM	10708	C5	A	A	520	185.090	91.374	15.710	1.00	79.86	A16S
ATOM	10709	N7	A	A	520	185.426	90.598	14.610	1.00	79.86	A16S
ATOM	10710	C8	A	A	520	185.658	89.410	15.120	1.00	79.86	A16S
ATOM	10711	C2*	A	A	520	184.581	87.147	17.356	1.00	64.14	A16S
ATOM	10712	O2*	A	A	520	184.357	86.628	18.653	1.00	64.14	A16S
ATOM	10713	C3*	A	A	520	185.176	86.065	16.470	1.00	64.14	A16S
ATOM	10714	O3*	A	A	520	184.610	84.799	16.751	1.00	64.14	A16S
ATOM	10715	P	G	A	521	183.425	84.257	15.816	1.00	65.86	A16S
ATOM	10716	O1P	G	A	521	183.102	82.862	16.206	1.00	71.02	A16S
ATOM	10717	O2P	G	A	521	183.825	84.557	14.405	1.00	71.02	A16S
ATOM	10718	O5*	G	A	521	182.197	85.199	16.197	1.00	65.86	A16S
ATOM	10719	C5*	G	A	521	181.445	85.900	15.176	1.00	65.86	A16S
ATOM	10720	C4*	G	A	521	180.945	87.226	15.708	1.00	65.86	A16S
ATOM	10721	O4*	G	A	521	182.027	88.201	15.720	1.00	65.86	A16S
ATOM	10722	C1*	G	A	521	181.516	89.497	15.447	1.00	65.86	A16S
ATOM	10723	N9	G	A	521	182.079	89.971	14.187	1.00	71.02	A16S
ATOM	10724	C4	G	A	521	181.986	91.245	13.684	1.00	71.02	A16S
ATOM	10725	N3	G	A	521	181.401	92.295	14.292	1.00	71.02	A16S
ATOM	10726	C2	G	A	521	181.426	93.384	13.538	1.00	71.02	A16S
ATOM	10727	N2	G	A	521	180.881	94.532	13.989	1.00	71.02	A16S
ATOM	10728	N1	G	A	521	181.980	93.434	12.286	1.00	71.02	A16S
ATOM	10729	C6	G	A	521	182.586	92.367	11.637	1.00	71.02	A16S
ATOM	10730	O6	G	A	521	183.044	92.521	10.496	1.00	71.02	A16S
ATOM	10731	C5	G	A	521	182.573	91.193	12.439	1.00	71.02	A16S
ATOM	10732	N7	G	A	521	183.062	89.921	12.179	1.00	71.02	A16S
ATOM	10733	C8	G	A	521	182.756	89.233	13.246	1.00	71.02	A16S
ATOM	10734	C2*	G	A	521	180.003	89.360	15.307	1.00	65.86	A16S
ATOM	10735	O2*	G	A	521	179.396	89.632	16.556	1.00	65.86	A16S
ATOM	10736	C3*	G	A	521	179.871	87.905	14.878	1.00	65.86	A16S
ATOM	10737	O3*	G	A	521	178.579	87.358	15.115	1.00	65.86	A16S
ATOM	10738	P	C	A	522	177.447	87.495	13.983	1.00	62.77	A16S
ATOM	10739	O1P	C	A	522	176.224	86.772	14.442	1.00	71.00	A16S
ATOM	10740	O2P	C	A	522	178.034	87.171	12.657	1.00	71.00	A16S
ATOM	10741	O5*	C	A	522	177.145	89.059	13.976	1.00	62.77	A16S
ATOM	10742	C5*	C	A	522	176.771	89.752	15.192	1.00	62.77	A16S
ATOM	10743	C4*	C	A	522	176.323	91.167	14.886	1.00	62.77	A16S
ATOM	10744	O4*	C	A	522	177.457	91.974	14.488	1.00	62.77	A16S
ATOM	10745	C1*	C	A	522	177.039	92.929	13.527	1.00	62.77	A16S
ATOM	10746	N1	C	A	522	177.833	92.772	12.298	1.00	71.00	A16S
ATOM	10747	C6	C	A	522	178.475	91.599	12.007	1.00	71.00	A16S
ATOM	10748	O2	C	A	522	177.916	93.854	11.419	1.00	71.00	A16S
ATOM	10749	C2	C	A	522	177.342	94.914	11.719	1.00	71.00	A16S
ATOM	10750	N3	C	A	522	178.623	93.722	10.270	1.00	71.00	A16S
ATOM	10751	C4	C	A	522	179.244	92.572	9.996	1.00	71.00	A16S
ATOM	10752	N4	C	A	522	179.932	92.486	8.854	1.00	71.00	A16S
ATOM	10753	C5	C	A	522	179.187	91.459	10.880	1.00	71.00	A16S
ATOM	10754	C2*	C	A	522	175.543	92.743	13.284	1.00	62.77	A16S
ATOM	10755	O2*	C	A	522	174.837	93.675	14.070	1.00	62.77	A16S
ATOM	10756	C3*	C	A	522	175.329	91.310	13.744	1.00	62.77	A16S
ATOM	10757	O3*	C	A	522	173.989	91.069	14.161	1.00	62.77	A16S
ATOM	10758	P	A	A	523	172.982	90.294	13.173	1.00	59.99	A16S
ATOM	10759	O1P	A	A	523	171.641	90.357	13.808	1.00	76.29	A16S
ATOM	10760	O2P	A	A	523	173.563	88.965	12.801	1.00	76.29	A16S
ATOM	10761	O5*	A	A	523	172.956	91.226	11.887	1.00	59.99	A16S
ATOM	10762	C5*	A	A	523	172.469	92.571	11.993	1.00	59.99	A16S
ATOM	10763	C4*	A	A	523	172.560	93.273	10.663	1.00	59.99	A16S
ATOM	10764	O4*	A	A	523	173.938	93.560	10.335	1.00	59.99	A16S
ATOM	10765	C1*	A	A	523	174.152	93.359	8.954	1.00	59.99	A16S
ATOM	10766	N9	A	A	523	175.171	92.310	8.818	1.00	76.29	A16S
ATOM	10767	C4	A	A	523	176.060	92.148	7.781	1.00	76.29	A16S
ATOM	10768	N3	A	A	523	176.166	92.900	6.675	1.00	76.29	A16S
ATOM	10769	C2	A	A	523	177.153	92.457	5.902	1.00	76.29	A16S
ATOM	10770	N1	A	A	523	177.978	91.421	6.087	1.00	76.29	A16S
ATOM	10771	C6	A	A	523	177.837	90.677	7.202	1.00	76.29	A16S
ATOM	10772	N6	A	A	523	178.647	89.629	7.372	1.00	76.29	A16S
ATOM	10773	C5	A	A	523	176.835	91.052	8.114	1.00	76.29	A16S



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ATOM	10774	N7	A	A 523	176.442	90.525	9.336	1.00	76.29	A16S
ATOM	10775	C8	A	A 523	175.452	91.298	9.709	1.00	76.29	A16S
ATOM	10776	C2*	A	A 523	172.792	93.048	8.316	1.00	59.99	A16S
ATOM	10777	O2*	A	A 523	172.235	94.255	7.843	1.00	59.99	A16S
ATOM	10778	C3*	A	A 523	172.025	92.470	9.501	1.00	59.99	A16S
ATOM	10779	O3*	A	A 523	170.619	92.638	9.457	1.00	59.99	A16S
ATOM	10780	P	G	A 524	169.708	91.593	8.651	1.00	63.32	A16S
ATOM	10781	O1P	G	A 524	168.419	91.477	9.392	1.00	56.51	A16S
ATOM	10782	O2P	G	A 524	170.487	90.354	8.362	1.00	56.51	A16S
ATOM	10783	O5*	G	A 524	169.476	92.375	7.280	1.00	63.32	A16S
ATOM	10784	C5*	G	A 524	168.527	91.914	6.307	1.00	63.32	A16S
ATOM	10785	C4*	G	A 524	168.016	93.074	5.484	1.00	63.32	A16S
ATOM	10786	O4*	G	A 524	167.091	93.868	6.265	1.00	63.32	A16S
ATOM	10787	C1*	G	A 524	167.255	95.238	5.946	1.00	63.32	A16S
ATOM	10788	N9	G	A 524	167.599	95.938	7.180	1.00	56.51	A16S
ATOM	10789	C4	G	A 524	167.473	97.278	7.431	1.00	56.51	A16S
ATOM	10790	N3	G	A 524	167.048	98.206	6.561	1.00	56.51	A16S
ATOM	10791	C2	G	A 524	167.014	99.404	7.101	1.00	56.51	A16S
ATOM	10792	N2	G	A 524	166.648	100.458	6.358	1.00	56.51	A16S
ATOM	10793	N1	G	A 524	167.344	99.662	8.402	1.00	56.51	A16S
ATOM	10794	C6	G	A 524	167.774	98.714	9.319	1.00	56.51	A16S
ATOM	10795	O6	G	A 524	168.020	99.044	10.483	1.00	56.51	A16S
ATOM	10796	C5	G	A 524	167.848	97.440	8.743	1.00	56.51	A16S
ATOM	10797	N7	G	A 524	168.244	96.236	9.296	1.00	56.51	A16S
ATOM	10798	C8	G	A 524	168.082	95.374	8.333	1.00	56.51	A16S
ATOM	10799	C2*	G	A 524	168.303	95.350	4.831	1.00	63.32	A16S
ATOM	10800	O2*	G	A 524	167.653	95.474	3.581	1.00	63.32	A16S
ATOM	10801	C3*	G	A 524	169.080	94.046	5.001	1.00	63.32	A16S
ATOM	10802	O3*	G	A 524	169.675	93.578	3.795	1.00	63.32	A16S
ATOM	10803	P	C	A 525	171.207	93.937	3.471	1.00	59.55	A16S
ATOM	10804	O1P	C	A 525	171.646	93.049	2.360	1.00	61.55	A16S
ATOM	10805	O2P	C	A 525	171.987	93.956	4.742	1.00	61.55	A16S
ATOM	10806	O5*	C	A 525	171.118	95.422	2.909	1.00	59.55	A16S
ATOM	10807	C5*	C	A 525	170.448	95.697	1.662	1.00	59.55	A16S
ATOM	10808	C4*	C	A 525	170.318	97.189	1.462	1.00	59.55	A16S
ATOM	10809	O4*	C	A 525	169.442	97.724	2.485	1.00	59.55	A16S
ATOM	10810	C1*	C	A 525	169.935	98.977	2.920	1.00	59.55	A16S
ATOM	10811	N1	C	A 525	170.254	98.867	4.346	1.00	61.55	A16S
ATOM	10812	C6	C	A 525	170.538	97.655	4.902	1.00	61.55	A16S
ATOM	10813	C2	C	A 525	170.248	100.017	5.131	1.00	61.55	A16S
ATOM	10814	O2	C	A 525	170.028	101.116	4.595	1.00	61.55	A16S
ATOM	10815	N3	C	A 525	170.490	99.911	6.454	1.00	61.55	A16S
ATOM	10816	C4	C	A 525	170.747	98.719	6.991	1.00	61.55	A16S
ATOM	10817	N4	C	A 525	170.966	98.657	8.306	1.00	61.55	A16S
ATOM	10818	C5	C	A 525	170.787	97.537	6.207	1.00	61.55	A16S
ATOM	10819	C2*	C	A 525	171.147	99.339	2.064	1.00	59.55	A16S
ATOM	10820	O2*	C	A 525	170.732	100.156	0.990	1.00	59.55	A16S
ATOM	10821	C3*	C	A 525	171.617	97.969	1.608	1.00	59.55	A16S
ATOM	10822	O3*	C	A 525	172.338	98.041	0.391	1.00	59.55	A16S
ATOM	10823	P	C	A 526	173.931	98.236	0.434	1.00	61.58	A16S
ATOM	10824	O1P	C	A 526	174.441	98.302	-0.970	1.00	68.65	A16S
ATOM	10825	O2P	C	A 526	174.467	97.200	1.355	1.00	68.65	A16S
ATOM	10826	O5*	C	A 526	174.121	99.662	1.128	1.00	61.58	A16S
ATOM	10827	C5*	C	A 526	173.801	100.880	0.424	1.00	61.58	A16S
ATOM	10828	C4*	C	A 526	174.070	102.092	1.294	1.00	61.58	A16S
ATOM	10829	O4*	C	A 526	173.199	102.079	2.452	1.00	61.58	A16S
ATOM	10830	C1*	C	A 526	173.874	102.632	3.560	1.00	61.58	A16S
ATOM	10831	N1	C	A 526	173.899	101.624	4.619	1.00	68.65	A16S
ATOM	10832	C6	C	A 526	174.103	100.306	4.320	1.00	68.65	A16S
ATOM	10833	C2	C	A 526	173.713	102.029	5.947	1.00	68.65	A16S
ATOM	10834	O2	C	A 526	173.514	103.233	6.192	1.00	68.65	A16S
ATOM	10835	N3	C	A 526	173.747	101.099	6.930	1.00	68.65	A16S
ATOM	10836	C4	C	A 526	173.945	99.813	6.624	1.00	68.65	A16S
ATOM	10837	N4	C	A 526	173.961	98.922	7.624	1.00	68.65	A16S
ATOM	10838	C5	C	A 526	174.132	99.378	5.280	1.00	68.65	A16S
ATOM	10839	C2*	C	A 526	175.278	103.040	3.111	1.00	61.58	A16S
ATOM	10840	O2*	C	A 526	175.330	104.414	2.820	1.00	61.58	A16S
ATOM	10841	C3*	C	A 526	175.470	102.198	1.863	1.00	61.58	A16S
ATOM	10842	O3*	C	A 526	176.366	102.835	0.964	1.00	61.58	A16S
ATOM	10843	P	G	A 527	177.833	102.223	0.768	1.00	68.15	A16S
ATOM	10844	O1P	G	A 527	178.797	103.353	0.663	1.00	64.24	A16S
ATOM	10845	O2P	G	A 527	177.740	101.241	-0.341	1.00	64.24	A16S
ATOM	10846	O5*	G	A 527	178.065	101.397	2.116	1.00	68.15	A16S
ATOM	10847	C5*	G	A 527	179.055	101.784	3.087	1.00	68.15	A16S
ATOM	10848	C4*	G	A 527	178.450	101.783	4.470	1.00	68.15	A16S
ATOM	10849	O4*	G	A 527	177.524	100.678	4.569	1.00	68.15	A16S
ATOM	10850	C1*	G	A 527	177.573	100.127	5.870	1.00	68.15	A16S



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ATOM	10851	N9	G	A	527	178.106	98.772	5.770	1.00	64.24	A16S
ATOM	10852	C4	G	A	527	178.177	97.861	6.792	1.00	64.24	A16S
ATOM	10853	N3	G	A	527	177.753	98.060	8.057	1.00	64.24	A16S
ATOM	10854	C2	G	A	527	177.981	97.013	8.822	1.00	64.24	A16S
ATOM	10855	N2	G	A	527	177.636	97.047	10.106	1.00	64.24	A16S
ATOM	10856	N1	G	A	527	178.568	95.858	8.386	1.00	64.24	A16S
ATOM	10857	C6	G	A	527	179.012	95.626	7.092	1.00	64.24	A16S
ATOM	10858	O6	G	A	527	179.530	94.545	6.810	1.00	64.24	A16S
ATOM	10859	C5	G	A	527	178.783	96.748	6.252	1.00	64.24	A16S
ATOM	10860	N7	G	A	527	179.078	96.949	4.910	1.00	64.24	A16S
ATOM	10861	C8	G	A	527	178.656	98.160	4.666	1.00	64.24	A16S
ATOM	10862	C2*	G	A	527	178.508	101.000	6.700	1.00	68.15	A16S
ATOM	10863	O2*	G	A	527	177.789	102.032	7.333	1.00	68.15	A16S
ATOM	10864	C3*	G	A	527	179.415	101.564	5.626	1.00	68.15	A16S
ATOM	10865	O3*	G	A	527	180.067	102.736	6.087	1.00	68.15	A16S
ATOM	10866	P	C	A	528	181.509	102.608	6.798	1.00	69.48	A16S
ATOM	10867	O1P	C	A	528	181.907	103.994	7.182	1.00	61.01	A16S
ATOM	10868	O2P	C	A	528	182.398	101.812	5.911	1.00	61.01	A16S
ATOM	10869	O5*	C	A	528	181.240	101.722	8.100	1.00	69.48	A16S
ATOM	10870	C5*	C	A	528	180.481	102.248	9.186	1.00	69.48	A16S
ATOM	10871	C4*	C	A	528	180.621	101.385	10.417	1.00	69.48	A16S
ATOM	10872	O4*	C	A	528	179.904	100.134	10.264	1.00	69.48	A16S
ATOM	10873	C1*	C	A	528	180.420	99.194	11.197	1.00	69.48	A16S
ATOM	10874	N1	C	A	528	180.811	97.955	10.503	1.00	61.01	A16S
ATOM	10875	C6	C	A	528	181.364	97.987	9.254	1.00	61.01	A16S
ATOM	10876	C2	C	A	528	180.657	96.734	11.173	1.00	61.01	A16S
ATOM	10877	O2	C	A	528	180.075	96.711	12.282	1.00	61.01	A16S
ATOM	10878	N3	C	A	528	181.140	95.606	10.598	1.00	61.01	A16S
ATOM	10879	C4	C	A	528	181.728	95.662	9.405	1.00	61.01	A16S
ATOM	10880	N4	C	A	528	182.233	94.539	8.910	1.00	61.01	A16S
ATOM	10881	C5	C	A	528	181.834	96.875	8.677	1.00	61.01	A16S
ATOM	10882	C2*	C	A	528	181.654	99.822	11.852	1.00	69.48	A16S
ATOM	10883	O2*	C	A	528	181.348	100.350	13.131	1.00	69.48	A16S
ATOM	10884	C3*	C	A	528	181.999	100.935	10.875	1.00	69.48	A16S
ATOM	10885	O3*	C	A	528	182.738	101.913	11.576	1.00	69.48	A16S
ATOM	10886	P	G	A	529	184.339	101.779	11.652	1.00	61.41	A16S
ATOM	10887	O1P	G	A	529	184.795	102.770	12.662	1.00	75.77	A16S
ATOM	10888	O2P	G	A	529	184.853	101.869	10.259	1.00	75.77	A16S
ATOM	10889	O5*	G	A	529	184.617	100.304	12.221	1.00	61.41	A16S
ATOM	10890	C5*	G	A	529	184.578	100.049	13.653	1.00	61.41	A16S
ATOM	10891	C4*	G	A	529	185.329	98.777	14.035	1.00	61.41	A16S
ATOM	10892	O4*	G	A	529	184.593	97.598	13.627	1.00	61.41	A16S
ATOM	10893	C1*	G	A	529	185.497	96.537	13.364	1.00	61.41	A16S
ATOM	10894	N9	G	A	529	185.370	96.162	11.955	1.00	75.77	A16S
ATOM	10895	C4	G	A	529	185.544	94.907	11.402	1.00	75.77	A16S
ATOM	10896	N3	G	A	529	185.828	93.774	12.072	1.00	75.77	A16S
ATOM	10897	C2	G	A	529	185.964	92.737	11.258	1.00	75.77	A16S
ATOM	10898	N2	G	A	529	186.235	91.521	11.755	1.00	75.77	A16S
ATOM	10899	N1	G	A	529	185.842	92.811	9.895	1.00	75.77	A16S
ATOM	10900	C6	G	A	529	185.558	93.965	9.180	1.00	75.77	A16S
ATOM	10901	O6	G	A	529	185.495	93.923	7.942	1.00	75.77	A16S
ATOM	10902	C5	G	A	529	185.390	95.084	10.043	1.00	75.77	A16S
ATOM	10903	N7	G	A	529	185.092	96.407	9.748	1.00	75.77	A16S
ATOM	10904	C8	G	A	529	185.085	97.006	10.908	1.00	75.77	A16S
ATOM	10905	C2*	G	A	529	186.903	97.049	13.691	1.00	61.41	A16S
ATOM	10906	O2*	G	A	529	187.222	96.715	15.030	1.00	61.41	A16S
ATOM	10907	C3*	G	A	529	186.740	98.553	13.515	1.00	61.41	A16S
ATOM	10908	O3*	G	A	529	187.714	99.257	14.277	1.00	61.41	A16S
ATOM	10909	P	G	A	530	188.872	100.081	13.525	1.00	102.81	A16S
ATOM	10910	O1P	G	A	530	189.567	100.895	14.550	1.00	100.79	A16S
ATOM	10911	O2P	G	A	530	188.299	100.743	12.321	1.00	100.79	A16S
ATOM	10912	O5*	G	A	530	189.874	98.956	13.021	1.00	102.81	A16S
ATOM	10913	C5*	G	A	530	190.366	97.952	13.922	1.00	102.81	A16S
ATOM	10914	C4*	G	A	530	191.741	97.495	13.493	1.00	102.81	A16S
ATOM	10915	O4*	G	A	530	191.660	96.842	12.205	1.00	102.81	A16S
ATOM	10916	C1*	G	A	530	192.855	97.078	11.488	1.00	102.81	A16S
ATOM	10917	N9	G	A	530	192.519	97.465	10.115	1.00	100.79	A16S
ATOM	10918	C4	G	A	530	192.031	98.673	9.666	1.00	100.79	A16S
ATOM	10919	N3	G	A	530	191.770	99.754	10.423	1.00	100.79	A16S
ATOM	10920	C2	G	A	530	191.296	100.754	9.697	1.00	100.79	A16S
ATOM	10921	N2	G	A	530	190.959	101.912	10.288	1.00	100.79	A16S
ATOM	10922	N1	G	A	530	191.110	100.696	8.336	1.00	100.79	A16S
ATOM	10923	C6	G	A	530	191.381	99.594	7.539	1.00	100.79	A16S
ATOM	10924	O6	G	A	530	191.188	99.649	6.322	1.00	100.79	A16S
ATOM	10925	C5	G	A	530	191.870	98.517	8.300	1.00	100.79	A16S
ATOM	10926	N7	G	A	530	192.247	97.246	7.899	1.00	100.79	A16S
ATOM	10927	C8	G	A	530	192.627	96.659	9.002	1.00	100.79	A16S



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ATOM	10928	C2*	G	A	530	193.760	98.001	12.316	1.00102.81	A16S
ATOM	10929	O2*	G	A	530	194.755	97.223	12.959	1.00102.81	A16S
ATOM	10930	C3*	G	A	530	192.776	98.598	13.320	1.00102.81	A16S
ATOM	10931	O3*	G	A	530	193.388	98.851	14.586	1.00102.81	A16S
ATOM	10932	P	U	A	531	194.383	100.098	14.770	1.00 78.24	A16S
ATOM	10933	O1P	U	A	531	194.029	101.133	13.751	1.00105.43	A16S
ATOM	10934	O2P	U	A	531	195.762	99.549	14.822	1.00105.43	A16S
ATOM	10935	O5*	U	A	531	194.036	100.654	16.219	1.00 78.24	A16S
ATOM	10936	C5*	U	A	531	192.747	101.225	16.491	1.00 78.24	A16S
ATOM	10937	C4*	U	A	531	192.731	101.887	17.848	1.00 78.24	A16S
ATOM	10938	O4*	U	A	531	192.745	100.884	18.901	1.00 78.24	A16S
ATOM	10939	C1*	U	A	531	193.769	101.185	19.821	1.00 78.24	A16S
ATOM	10940	N1	U	A	531	194.282	99.925	20.397	1.00105.43	A16S
ATOM	10941	C6	U	A	531	194.991	99.018	19.636	1.00105.43	A16S
ATOM	10942	C2	U	A	531	194.038	99.675	21.760	1.00105.43	A16S
ATOM	10943	O2	U	A	531	193.389	100.424	22.487	1.00105.43	A16S
ATOM	10944	N3	U	A	531	194.579	98.507	22.240	1.00105.43	A16S
ATOM	10945	O4	U	A	531	195.311	97.575	21.535	1.00105.43	A16S
ATOM	10946	C4	U	A	531	195.769	96.593	22.131	1.00105.43	A16S
ATOM	10947	C5	U	A	531	195.498	97.885	20.144	1.00105.43	A16S
ATOM	10948	C2*	U	A	531	194.784	102.039	19.051	1.00 78.24	A16S
ATOM	10949	O2*	U	A	531	195.540	102.865	19.918	1.00 78.24	A16S
ATOM	10950	C3*	U	A	531	193.877	102.849	18.126	1.00 78.24	A16S
ATOM	10951	O3*	U	A	531	193.373	103.957	18.843	1.00 78.24	A16S
ATOM	10952	P	A	A	532	193.229	105.388	18.132	1.00101.58	A16S
ATOM	10953	O1P	A	A	532	192.573	105.178	16.817	1.00166.97	A16S
ATOM	10954	O2P	A	A	532	194.537	106.083	18.197	1.00166.97	A16S
ATOM	10955	O5*	A	A	532	192.206	106.135	19.104	1.00101.58	A16S
ATOM	10956	C5*	A	A	532	192.190	105.810	20.518	1.00101.58	A16S
ATOM	10957	C4*	A	A	532	190.820	106.034	21.141	1.00101.58	A16S
ATOM	10958	O4*	A	A	532	190.578	107.443	21.363	1.00101.58	A16S
ATOM	10959	C1*	A	A	532	189.191	107.638	21.563	1.00101.58	A16S
ATOM	10960	N9	A	A	532	188.771	108.912	20.963	1.00166.97	A16S
ATOM	10961	C4	A	A	532	187.520	109.228	20.472	1.00166.97	A16S
ATOM	10962	N3	A	A	532	186.433	108.433	20.420	1.00166.97	A16S
ATOM	10963	C2	A	A	532	185.396	109.081	19.883	1.00166.97	A16S
ATOM	10964	N1	A	A	532	185.325	110.338	19.425	1.00166.97	A16S
ATOM	10965	C6	A	A	532	186.431	111.113	19.490	1.00166.97	A16S
ATOM	10966	N6	A	A	532	186.359	112.366	19.030	1.00166.97	A16S
ATOM	10967	C5	A	A	532	187.603	110.543	20.043	1.00166.97	A16S
ATOM	10968	N7	A	A	532	188.880	111.049	20.256	1.00166.97	A16S
ATOM	10969	C8	A	A	532	189.532	110.047	20.797	1.00166.97	A16S
ATOM	10970	C2*	A	A	532	188.458	106.366	21.110	1.00101.58	A16S
ATOM	10971	O2*	A	A	532	187.936	105.710	22.249	1.00101.58	A16S
ATOM	10972	C3*	A	A	532	189.563	105.552	20.427	1.00101.58	A16S
ATOM	10973	O3*	A	A	532	189.325	104.161	20.663	1.00101.58	A16S
ATOM	10974	P	A	A	533	188.244	103.360	19.773	1.00 93.66	A16S
ATOM	10975	O1P	A	A	533	187.569	102.365	20.643	1.00 70.59	A16S
ATOM	10976	O2P	A	A	533	188.891	102.913	18.528	1.00 70.59	A16S
ATOM	10977	O5*	A	A	533	187.187	104.462	19.332	1.00 93.66	A16S
ATOM	10978	C5*	A	A	533	185.903	104.531	19.950	1.00 93.66	A16S
ATOM	10979	C4*	A	A	533	184.820	104.265	18.935	1.00 93.66	A16S
ATOM	10980	O4*	A	A	533	185.096	103.026	18.240	1.00 93.66	A16S
ATOM	10981	C1*	A	A	533	183.892	102.320	18.026	1.00 93.66	A16S
ATOM	10982	N9	A	A	533	184.131	100.898	18.312	1.00 70.59	A16S
ATOM	10983	C4	A	A	533	183.732	99.821	17.542	1.00 70.59	A16S
ATOM	10984	N3	A	A	533	182.967	99.838	16.439	1.00 70.59	A16S
ATOM	10985	C2	A	A	533	182.822	98.607	15.948	1.00 70.59	A16S
ATOM	10986	N1	A	A	533	183.321	97.455	16.387	1.00 70.59	A16S
ATOM	10987	C6	A	A	533	184.087	97.468	17.485	1.00 70.59	A16S
ATOM	10988	N6	A	A	533	184.597	96.315	17.902	1.00 70.59	A16S
ATOM	10989	C5	A	A	533	184.307	98.706	18.120	1.00 70.59	A16S
ATOM	10990	N7	A	A	533	185.009	99.057	19.266	1.00 70.59	A16S
ATOM	10991	C8	A	A	533	184.861	100.361	19.345	1.00 70.59	A16S
ATOM	10992	C2*	A	A	533	182.730	103.081	18.686	1.00 93.66	A16S
ATOM	10993	O2*	A	A	533	181.896	103.611	17.680	1.00 93.66	A16S
ATOM	10994	C3*	A	A	533	183.457	104.099	19.579	1.00 93.66	A16S
ATOM	10995	O3*	A	A	533	182.927	105.431	19.837	1.00 93.66	A16S
ATOM	10996	P	U	A	534	181.737	106.074	18.942	1.00 85.59	A16S
ATOM	10997	O1P	U	A	534	182.030	105.926	17.496	1.00 93.98	A16S
ATOM	10998	O2P	U	A	534	181.498	107.434	19.487	1.00 93.98	A16S
ATOM	10999	O5*	U	A	534	180.462	105.204	19.326	1.00 85.59	A16S
ATOM	11000	C5*	U	A	534	180.246	104.816	20.694	1.00 85.59	A16S
ATOM	11001	C4*	U	A	534	178.773	104.774	21.014	1.00 85.59	A16S
ATOM	11002	O4*	U	A	534	178.205	106.108	21.018	1.00 85.59	A16S
ATOM	11003	C1*	U	A	534	176.853	106.038	20.607	1.00 85.59	A16S
ATOM	11004	N1	U	A	534	176.655	106.941	19.465	1.00 93.98	A16S



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ATOM	11005	C6	U	A	534	177.634	107.138	18.517	1.00	93.98	A16S
ATOM	11006	C2	U	A	534	175.445	107.592	19.380	1.00	93.98	A16S
ATOM	11007	O2	U	A	534	174.550	107.433	20.194	1.00	93.98	A16S
ATOM	11008	N3	U	A	534	175.316	108.440	18.307	1.00	93.98	A16S
ATOM	11009	C4	U	A	534	176.257	108.695	17.329	1.00	93.98	A16S
ATOM	11010	O4	U	A	534	176.012	109.530	16.450	1.00	93.98	A16S
ATOM	11011	C5	U	A	534	177.481	107.970	17.481	1.00	93.98	A16S
ATOM	11012	C2*	U	A	534	176.523	104.574	20.304	1.00	85.59	A16S
ATOM	11013	O2*	U	A	534	175.918	103.994	21.443	1.00	85.59	A16S
ATOM	11014	C3*	U	A	534	177.905	103.981	20.057	1.00	85.59	A16S
ATOM	11015	O3*	U	A	534	177.939	102.605	20.401	1.00	85.59	A16S
ATOM	11016	P	A	A	535	178.860	101.598	19.558	1.00	59.87	A16S
ATOM	11017	O1P	A	A	535	178.767	100.306	20.294	1.00	66.04	A16S
ATOM	11018	O2P	A	A	535	180.172	102.234	19.354	1.00	66.04	A16S
ATOM	11019	O5*	A	A	535	178.141	101.453	18.141	1.00	59.87	A16S
ATOM	11020	C5*	A	A	535	176.806	100.922	18.069	1.00	59.87	A16S
ATOM	11021	C4*	A	A	535	176.633	100.012	16.872	1.00	59.87	A16S
ATOM	11022	O4*	A	A	535	176.381	100.758	15.661	1.00	59.87	A16S
ATOM	11023	C1*	A	A	535	177.171	100.239	14.621	1.00	59.87	A16S
ATOM	11024	N9	A	A	535	177.467	101.327	13.695	1.00	66.04	A16S
ATOM	11025	C4	A	A	535	177.292	101.277	12.333	1.00	66.04	A16S
ATOM	11026	N3	A	A	535	176.885	100.224	11.601	1.00	66.04	A16S
ATOM	11027	C2	A	A	535	176.813	100.546	10.313	1.00	66.04	A16S
ATOM	11028	N1	A	A	535	177.070	101.712	9.717	1.00	66.04	A16S
ATOM	11029	C6	A	A	535	177.465	102.753	10.474	1.00	66.04	A16S
ATOM	11030	N6	A	A	535	177.697	103.917	9.867	1.00	66.04	A16S
ATOM	11031	C5	A	A	535	177.600	102.537	11.865	1.00	66.04	A16S
ATOM	11032	N7	A	A	535	177.996	103.359	12.911	1.00	66.04	A16S
ATOM	11033	C8	A	A	535	177.909	102.590	13.970	1.00	66.04	A16S
ATOM	11034	C2*	A	A	535	178.362	99.554	15.285	1.00	59.87	A16S
ATOM	11035	O2*	A	A	535	178.825	98.509	14.454	1.00	59.87	A16S
ATOM	11036	C3*	A	A	535	177.718	98.995	16.549	1.00	59.87	A16S
ATOM	11037	O3*	A	A	535	177.054	97.795	16.215	1.00	59.87	A16S
ATOM	11038	P	C	A	536	176.502	96.852	17.385	1.00	59.31	A16S
ATOM	11039	O1P	C	A	536	175.235	96.258	16.875	1.00	90.68	A16S
ATOM	11040	O2P	C	A	536	176.491	97.634	18.665	1.00	90.68	A16S
ATOM	11041	O5*	C	A	536	177.601	95.703	17.507	1.00	59.31	A16S
ATOM	11042	C5*	C	A	536	177.713	94.666	16.507	1.00	59.31	A16S
ATOM	11043	C4*	C	A	536	178.869	93.752	16.833	1.00	59.31	A16S
ATOM	11044	O4*	C	A	536	180.101	94.493	16.710	1.00	59.31	A16S
ATOM	11045	C1*	C	A	536	180.991	94.107	17.733	1.00	59.31	A16S
ATOM	11046	N1	C	A	536	181.367	95.316	18.484	1.00	90.68	A16S
ATOM	11047	C6	C	A	536	180.770	96.514	18.215	1.00	90.68	A16S
ATOM	11048	C2	C	A	536	182.342	95.225	19.482	1.00	90.68	A16S
ATOM	11049	O2	C	A	536	182.896	94.137	19.687	1.00	90.68	A16S
ATOM	11050	N3	C	A	536	182.662	96.325	20.194	1.00	90.68	A16S
ATOM	11051	C4	C	A	536	182.063	97.484	19.932	1.00	90.68	A16S
ATOM	11052	N4	C	A	536	182.405	98.545	20.665	1.00	90.68	A16S
ATOM	11053	C5	C	A	536	181.085	97.611	18.906	1.00	90.68	A16S
ATOM	11054	C2*	C	A	536	180.326	92.998	18.559	1.00	59.31	A16S
ATOM	11055	O2*	C	A	536	180.793	91.738	18.129	1.00	59.31	A16S
ATOM	11056	C3*	C	A	536	178.851	93.207	18.248	1.00	59.31	A16S
ATOM	11057	O3*	C	A	536	178.129	91.984	18.263	1.00	59.31	A16S
ATOM	11058	P	G	A	537	176.902	91.793	19.277	1.00	70.42	A16S
ATOM	11059	O1P	G	A	537	176.250	90.512	18.938	1.00	93.80	A16S
ATOM	11060	O2P	G	A	537	176.094	93.035	19.309	1.00	93.80	A16S
ATOM	11061	O5*	G	A	537	177.622	91.623	20.680	1.00	70.42	A16S
ATOM	11062	C5*	G	A	537	178.325	90.413	20.998	1.00	70.42	A16S
ATOM	11063	C4*	G	A	537	179.028	90.546	22.328	1.00	70.42	A16S
ATOM	11064	O4*	G	A	537	180.215	91.360	22.178	1.00	70.42	A16S
ATOM	11065	C1*	G	A	537	180.461	92.055	23.387	1.00	70.42	A16S
ATOM	11066	N9	G	A	537	180.532	93.479	23.098	1.00	93.80	A16S
ATOM	11067	C4	G	A	537	181.044	94.440	23.926	1.00	93.80	A16S
ATOM	11068	N3	G	A	537	181.586	94.226	25.141	1.00	93.80	A16S
ATOM	11069	C2	G	A	537	181.989	95.348	25.703	1.00	93.80	A16S
ATOM	11070	N2	G	A	537	182.559	95.316	26.917	1.00	93.80	A16S
ATOM	11071	N1	G	A	537	181.863	96.585	25.118	1.00	93.80	A16S
ATOM	11072	C6	G	A	537	181.302	96.826	23.868	1.00	93.80	A16S
ATOM	11073	O6	G	A	537	181.226	97.982	23.436	1.00	93.80	A16S
ATOM	11074	C5	G	A	537	180.876	95.630	23.253	1.00	93.80	A16S
ATOM	11075	N7	G	A	537	180.281	95.418	22.019	1.00	93.80	A16S
ATOM	11076	C8	G	A	537	180.097	94.127	21.969	1.00	93.80	A16S
ATOM	11077	C2*	G	A	537	179.342	91.718	24.377	1.00	70.42	A16S
ATOM	11078	O2*	G	A	537	179.781	90.735	25.302	1.00	70.42	A16S
ATOM	11079	C3*	G	A	537	178.244	91.214	23.449	1.00	70.42	A16S
ATOM	11080	O3*	G	A	537	177.373	90.310	24.116	1.00	70.42	A16S
ATOM	11081	P	G	A	538	176.084	90.881	24.881	1.00	78.13	A16S



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ATOM	11082	O1P	G	A	538	175.189	89.726	25.210	1.00	74.20	A16S
ATOM	11083	O2P	G	A	538	175.559	92.026	24.094	1.00	74.20	A16S
ATOM	11084	O5*	G	A	538	176.684	91.467	26.230	1.00	78.13	A16S
ATOM	11085	C5*	G	A	538	177.213	90.585	27.221	1.00	78.13	A16S
ATOM	11086	C4*	G	A	538	177.756	91.368	28.384	1.00	78.13	A16S
ATOM	11087	O4*	G	A	538	178.866	92.177	27.936	1.00	78.13	A16S
ATOM	11088	C1*	G	A	538	178.900	93.378	28.672	1.00	78.13	A16S
ATOM	11089	N9	G	A	538	178.785	94.483	27.740	1.00	74.20	A16S
ATOM	11090	C4	G	A	538	179.206	95.755	27.965	1.00	74.20	A16S
ATOM	11091	N3	G	A	538	179.780	96.200	29.097	1.00	74.20	A16S
ATOM	11092	C2	G	A	538	180.090	97.478	29.020	1.00	74.20	A16S
ATOM	11093	N2	G	A	538	180.668	98.084	30.070	1.00	74.20	A16S
ATOM	11094	N1	G	A	538	179.854	98.259	27.909	1.00	74.20	A16S
ATOM	11095	C6	G	A	538	179.261	97.813	26.728	1.00	74.20	A16S
ATOM	11096	O6	G	A	538	179.096	98.594	25.778	1.00	74.20	A16S
ATOM	11097	C5	G	A	538	178.922	96.446	26.807	1.00	74.20	A16S
ATOM	11098	N7	G	A	538	178.319	95.618	25.877	1.00	74.20	A16S
ATOM	11099	C8	G	A	538	178.253	94.462	26.476	1.00	74.20	A16S
ATOM	11100	C2*	G	A	538	177.758	93.352	29.678	1.00	78.13	A16S
ATOM	11101	O2*	G	A	538	178.287	92.880	30.898	1.00	78.13	A16S
ATOM	11102	C3*	G	A	538	176.806	92.352	29.039	1.00	78.13	A16S
ATOM	11103	O3*	G	A	538	176.002	91.707	30.014	1.00	78.13	A16S
ATOM	11104	P	A	A	539	174.727	92.471	30.607	1.00	71.36	A16S
ATOM	11105	O1P	A	A	539	174.055	91.601	31.602	1.00	87.90	A16S
ATOM	11106	O2P	A	A	539	173.959	92.983	29.448	1.00	87.90	A16S
ATOM	11107	O5*	A	A	539	175.357	93.721	31.369	1.00	71.36	A16S
ATOM	11108	C5*	A	A	539	176.146	93.547	32.567	1.00	71.36	A16S
ATOM	11109	C4*	A	A	539	176.693	94.878	33.037	1.00	71.36	A16S
ATOM	11110	O4*	A	A	539	177.600	95.422	32.048	1.00	71.36	A16S
ATOM	11111	C1*	A	A	539	177.472	96.832	32.003	1.00	71.36	A16S
ATOM	11112	N9	A	A	539	177.090	97.213	30.648	1.00	87.90	A16S
ATOM	11113	C4	A	A	539	177.179	98.473	30.115	1.00	87.90	A16S
ATOM	11114	N3	A	A	539	177.641	99.578	30.718	1.00	87.90	A16S
ATOM	11115	C2	A	A	539	177.582	100.620	29.893	1.00	87.90	A16S
ATOM	11116	N1	A	A	539	177.144	100.678	28.632	1.00	87.90	A16S
ATOM	11117	C6	A	A	539	176.684	99.550	28.059	1.00	87.90	A16S
ATOM	11118	N6	A	A	539	176.241	99.614	26.805	1.00	87.90	A16S
ATOM	11119	C5	A	A	539	176.699	98.373	28.826	1.00	87.90	A16S
ATOM	11120	N7	A	A	539	176.318	97.068	28.546	1.00	87.90	A16S
ATOM	11121	C8	A	A	539	176.570	96.422	29.655	1.00	87.90	A16S
ATOM	11122	C2*	A	A	539	176.436	97.251	33.046	1.00	71.36	A16S
ATOM	11123	O2*	A	A	539	177.082	97.691	34.221	1.00	71.36	A16S
ATOM	11124	C3*	A	A	539	175.652	95.961	33.242	1.00	71.36	A16S
ATOM	11125	O3*	A	A	539	175.113	95.872	34.542	1.00	71.36	A16S
ATOM	11126	P	G	A	540	173.659	96.460	34.831	1.00	71.16	A16S
ATOM	11127	O1P	G	A	540	173.330	96.058	36.222	1.00	94.66	A16S
ATOM	11128	O2P	G	A	540	172.762	96.046	33.723	1.00	94.66	A16S
ATOM	11129	O5*	G	A	540	173.862	98.044	34.748	1.00	71.16	A16S
ATOM	11130	C5*	G	A	540	174.410	98.788	35.862	1.00	71.16	A16S
ATOM	11131	C4*	G	A	540	174.423	100.272	35.560	1.00	71.16	A16S
ATOM	11132	O4*	G	A	540	175.347	100.537	34.475	1.00	71.16	A16S
ATOM	11133	C1*	G	A	540	174.833	101.567	33.645	1.00	71.16	A16S
ATOM	11134	N9	G	A	540	174.580	100.997	32.327	1.00	94.66	A16S
ATOM	11135	C4	G	A	540	174.425	101.696	31.165	1.00	94.66	A16S
ATOM	11136	N3	G	A	540	174.517	103.034	31.033	1.00	94.66	A16S
ATOM	11137	C2	G	A	540	174.290	103.421	29.794	1.00	94.66	A16S
ATOM	11138	N2	G	A	540	174.345	104.721	29.487	1.00	94.66	A16S
ATOM	11139	N1	G	A	540	173.992	102.560	28.763	1.00	94.66	A16S
ATOM	11140	C6	G	A	540	173.887	101.175	28.881	1.00	94.66	A16S
ATOM	11141	O6	G	A	540	173.593	100.485	27.894	1.00	94.66	A16S
ATOM	11142	C5	G	A	540	174.138	100.749	30.203	1.00	94.66	A16S
ATOM	11143	N7	G	A	540	174.140	99.475	30.749	1.00	94.66	A16S
ATOM	11144	C8	G	A	540	174.414	99.668	32.008	1.00	94.66	A16S
ATOM	11145	C2*	G	A	540	173.531	102.072	34.270	1.00	71.16	A16S
ATOM	11146	O2*	G	A	540	173.763	103.263	34.997	1.00	71.16	A16S
ATOM	11147	C3*	G	A	540	173.102	100.866	35.102	1.00	71.16	A16S
ATOM	11148	O3*	G	A	540	172.282	101.221	36.196	1.00	71.16	A16S
ATOM	11149	P	G	A	541	170.705	101.375	35.978	1.00	79.83	A16S
ATOM	11150	O1P	G	A	541	170.129	101.926	37.231	1.00	72.41	A16S
ATOM	11151	O2P	G	A	541	170.208	100.081	35.461	1.00	72.41	A16S
ATOM	11152	O5*	G	A	541	170.596	102.493	34.847	1.00	79.83	A16S
ATOM	11153	C5*	G	A	541	170.813	103.881	35.170	1.00	79.83	A16S
ATOM	11154	C4*	G	A	541	170.690	104.750	33.937	1.00	79.83	A16S
ATOM	11155	O4*	G	A	541	171.741	104.402	32.996	1.00	79.83	A16S
ATOM	11156	C1*	G	A	541	171.248	104.499	31.664	1.00	79.83	A16S
ATOM	11157	N9	G	A	541	171.158	103.149	31.117	1.00	72.41	A16S
ATOM	11158	C4	G	A	541	170.846	102.811	29.823	1.00	72.41	A16S



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ATOM	11159	N3	G	A	541	170.619	103.674	28.815	1.00	72.41	A16S
ATOM	11160	C2	G	A	541	170.325	103.049	27.695	1.00	72.41	A16S
ATOM	11161	N2	G	A	541	170.088	103.763	26.591	1.00	72.41	A16S
ATOM	11162	N1	G	A	541	170.244	101.683	27.580	1.00	72.41	A16S
ATOM	11163	C6	G	A	541	170.463	100.779	28.616	1.00	72.41	A16S
ATOM	11164	O6	G	A	541	170.342	99.566	28.423	1.00	72.41	A16S
ATOM	11165	C5	G	A	541	170.799	101.433	29.805	1.00	72.41	A16S
ATOM	11166	N7	G	A	541	171.110	100.911	31.051	1.00	72.41	A16S
ATOM	11167	C8	G	A	541	171.319	101.964	31.796	1.00	72.41	A16S
ATOM	11168	C2*	G	A	541	169.841	105.082	31.748	1.00	79.83	A16S
ATOM	11169	O2*	G	A	541	169.879	106.490	31.623	1.00	79.83	A16S
ATOM	11170	C3*	G	A	541	169.410	104.609	33.127	1.00	79.83	A16S
ATOM	11171	O3*	G	A	541	168.313	105.348	33.626	1.00	79.83	A16S
ATOM	11172	P	G	A	542	166.824	104.906	33.208	1.00	70.00	A16S
ATOM	11173	O1P	G	A	542	165.868	105.882	33.790	1.00	62.33	A16S
ATOM	11174	O2P	G	A	542	166.649	103.444	33.467	1.00	62.33	A16S
ATOM	11175	O5*	G	A	542	166.787	105.166	31.639	1.00	70.00	A16S
ATOM	11176	C5*	G	A	542	166.942	106.495	31.122	1.00	70.00	A16S
ATOM	11177	C4*	G	A	542	166.794	106.484	29.629	1.00	70.00	A16S
ATOM	11178	O4*	G	A	542	167.752	105.550	29.070	1.00	70.00	A16S
ATOM	11179	C1*	G	A	542	167.210	104.949	27.912	1.00	70.00	A16S
ATOM	11180	N9	G	A	542	167.213	103.501	28.088	1.00	62.33	A16S
ATOM	11181	C4	G	A	542	167.011	102.563	27.098	1.00	62.33	A16S
ATOM	11182	N3	G	A	542	166.787	102.825	25.796	1.00	62.33	A16S
ATOM	11183	C2	G	A	542	166.597	101.724	25.097	1.00	62.33	A16S
ATOM	11184	N2	G	A	542	166.345	101.816	23.789	1.00	62.33	A16S
ATOM	11185	N1	G	A	542	166.635	100.457	25.626	1.00	62.33	A16S
ATOM	11186	C6	G	A	542	166.862	100.160	26.963	1.00	62.33	A16S
ATOM	11187	O6	G	A	542	166.861	98.980	27.340	1.00	62.33	A16S
ATOM	11188	C5	G	A	542	167.064	101.343	27.732	1.00	62.33	A16S
ATOM	11189	N7	G	A	542	167.314	101.506	29.087	1.00	62.33	A16S
ATOM	11190	C8	G	A	542	167.398	102.799	29.251	1.00	62.33	A16S
ATOM	11191	C2*	G	A	542	165.805	105.517	27.704	1.00	70.00	A16S
ATOM	11192	O2*	G	A	542	165.866	106.573	26.771	1.00	70.00	A16S
ATOM	11193	C3*	G	A	542	165.455	106.004	29.101	1.00	70.00	A16S
ATOM	11194	O3*	G	A	542	164.497	107.050	29.067	1.00	70.00	A16S
ATOM	11195	P	C	A	543	162.947	106.685	28.901	1.00	60.28	A16S
ATOM	11196	O1P	C	A	543	162.145	107.933	28.968	1.00	66.81	A16S
ATOM	11197	O2P	C	A	543	162.648	105.565	29.830	1.00	66.81	A16S
ATOM	11198	O5*	C	A	543	162.848	106.129	27.413	1.00	60.28	A16S
ATOM	11199	C5*	C	A	543	162.993	107.013	26.286	1.00	60.28	A16S
ATOM	11200	C4*	C	A	543	162.691	106.280	24.997	1.00	60.28	A16S
ATOM	11201	O4*	C	A	543	163.727	105.301	24.694	1.00	60.28	A16S
ATOM	11202	C1*	C	A	543	163.144	104.155	24.087	1.00	60.28	A16S
ATOM	11203	N1	C	A	543	163.345	102.991	24.980	1.00	66.81	A16S
ATOM	11204	C6	C	A	543	163.633	103.166	26.306	1.00	66.81	A16S
ATOM	11205	C2	C	A	543	163.226	101.700	24.455	1.00	66.81	A16S
ATOM	11206	O2	C	A	543	162.959	101.560	23.260	1.00	66.81	A16S
ATOM	11207	N3	C	A	543	163.401	100.636	25.270	1.00	66.81	A16S
ATOM	11208	C4	C	A	543	163.681	100.821	26.562	1.00	66.81	A16S
ATOM	11209	N4	C	A	543	163.848	99.743	27.331	1.00	66.81	A16S
ATOM	11210	C5	C	A	543	163.803	102.119	27.124	1.00	66.81	A16S
ATOM	11211	C2*	C	A	543	161.660	104.457	23.902	1.00	60.28	A16S
ATOM	11212	O2*	C	A	543	161.438	105.066	22.651	1.00	60.28	A16S
ATOM	11213	C3*	C	A	543	161.419	105.465	25.006	1.00	60.28	A16S
ATOM	11214	O3*	C	A	543	160.279	106.227	24.738	1.00	60.28	A16S
ATOM	11215	P	G	A	544	158.870	105.674	25.229	1.00	64.52	A16S
ATOM	11216	O1P	G	A	544	157.833	106.691	24.917	1.00	76.00	A16S
ATOM	11217	O2P	G	A	544	159.078	105.223	26.629	1.00	76.00	A16S
ATOM	11218	O5*	G	A	544	158.615	104.383	24.333	1.00	64.52	A16S
ATOM	11219	C5*	G	A	544	158.534	104.496	22.914	1.00	64.52	A16S
ATOM	11220	C4*	G	A	544	158.316	103.145	22.290	1.00	64.52	A16S
ATOM	11221	O4*	G	A	544	159.447	102.280	22.555	1.00	64.52	A16S
ATOM	11222	C1*	G	A	544	159.002	100.937	22.626	1.00	64.52	A16S
ATOM	11223	N9	G	A	544	159.439	100.366	23.895	1.00	76.00	A16S
ATOM	11224	C4	G	A	544	159.625	99.034	24.168	1.00	76.00	A16S
ATOM	11225	N3	G	A	544	159.438	98.014	23.308	1.00	76.00	A16S
ATOM	11226	C2	G	A	544	159.726	96.848	23.855	1.00	76.00	A16S
ATOM	11227	N2	G	A	544	159.631	95.725	23.131	1.00	76.00	A16S
ATOM	11228	N1	G	A	544	160.137	96.697	25.148	1.00	76.00	A16S
ATOM	11229	C6	G	A	544	160.323	97.731	26.053	1.00	76.00	A16S
ATOM	11230	O6	G	A	544	160.678	97.482	27.205	1.00	76.00	A16S
ATOM	11231	C5	G	A	544	160.047	98.985	25.474	1.00	76.00	A16S
ATOM	11232	N7	G	A	544	160.126	100.258	26.015	1.00	76.00	A16S
ATOM	11233	C8	G	A	544	159.753	101.044	25.044	1.00	76.00	A16S
ATOM	11234	C2*	G	A	544	157.482	100.926	22.430	1.00	64.52	A16S
ATOM	11235	O2*	G	A	544	157.183	100.634	21.075	1.00	64.52	A16S



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ATOM	11236	C3*	G	A	544	157.109	102.362	22.774	1.00	64.52	A16S
ATOM	11237	O3*	G	A	544	155.952	102.747	22.053	1.00	64.52	A16S
ATOM	11238	P	C	A	545	154.516	102.628	22.747	1.00	74.91	A16S
ATOM	11239	O1P	C	A	545	153.542	103.005	21.685	1.00	82.86	A16S
ATOM	11240	O2P	C	A	545	154.552	103.386	24.026	1.00	82.86	A16S
ATOM	11241	O5*	C	A	545	154.359	101.081	23.101	1.00	74.91	A16S
ATOM	11242	C5*	C	A	545	153.835	100.180	22.124	1.00	74.91	A16S
ATOM	11243	C4*	C	A	545	154.005	98.737	22.549	1.00	74.91	A16S
ATOM	11244	O4*	C	A	545	155.392	98.455	22.862	1.00	74.91	A16S
ATOM	11245	C1*	C	A	545	155.456	97.317	23.692	1.00	74.91	A16S
ATOM	11246	N1	C	A	545	156.189	97.646	24.908	1.00	82.86	A16S
ATOM	11247	C6	C	A	545	156.185	98.913	25.408	1.00	82.86	A16S
ATOM	11248	C2	C	A	545	156.869	96.623	25.574	1.00	82.86	A16S
ATOM	11249	O2	C	A	545	156.893	95.492	25.077	1.00	82.86	A16S
ATOM	11250	N3	C	A	545	157.483	96.890	26.738	1.00	82.86	A16S
ATOM	11251	C4	C	A	545	157.451	98.124	27.236	1.00	82.86	A16S
ATOM	11252	N4	C	A	545	158.062	98.342	28.405	1.00	82.86	A16S
ATOM	11253	C5	C	A	545	156.792	99.193	26.560	1.00	82.86	A16S
ATOM	11254	C2*	C	A	545	154.027	96.917	24.042	1.00	74.91	A16S
ATOM	11255	O2*	C	A	545	153.662	95.874	23.171	1.00	74.91	A16S
ATOM	11256	C3*	C	A	545	153.256	98.200	23.757	1.00	74.91	A16S
ATOM	11257	O3*	C	A	545	151.898	97.894	23.453	1.00	74.91	A16S
ATOM	11258	P	G	A	546	150.834	97.712	24.649	1.00	60.60	A16S
ATOM	11259	O1P	G	A	546	149.534	97.300	24.042	1.00	68.49	A16S
ATOM	11260	O2P	G	A	546	150.893	98.926	25.497	1.00	68.49	A16S
ATOM	11261	O5*	G	A	546	151.408	96.479	25.482	1.00	60.60	A16S
ATOM	11262	C5*	G	A	546	151.448	95.159	24.900	1.00	60.60	A16S
ATOM	11263	C4*	G	A	546	152.067	94.155	25.857	1.00	60.60	A16S
ATOM	11264	O4*	G	A	546	153.446	94.507	26.134	1.00	60.60	A16S
ATOM	11265	C1*	G	A	546	153.777	94.129	27.460	1.00	60.60	A16S
ATOM	11266	N9	G	A	546	154.203	95.326	28.188	1.00	68.49	A16S
ATOM	11267	C4	G	A	546	154.951	95.367	29.343	1.00	68.49	A16S
ATOM	11268	N3	G	A	546	155.434	94.303	30.013	1.00	68.49	A16S
ATOM	11269	C2	G	A	546	156.121	94.666	31.088	1.00	68.49	A16S
ATOM	11270	N2	G	A	546	156.690	93.737	31.866	1.00	68.49	A16S
ATOM	11271	N1	G	A	546	156.310	95.966	31.479	1.00	68.49	A16S
ATOM	11272	C6	G	A	546	155.823	97.077	30.807	1.00	68.49	A16S
ATOM	11273	O6	G	A	546	156.057	98.211	31.250	1.00	68.49	A16S
ATOM	11274	C5	G	A	546	155.089	96.705	29.643	1.00	68.49	A16S
ATOM	11275	N7	G	A	546	154.451	97.490	28.696	1.00	68.49	A16S
ATOM	11276	C8	G	A	546	153.939	96.633	27.856	1.00	68.49	A16S
ATOM	11277	C2*	G	A	546	152.556	93.423	28.063	1.00	60.60	A16S
ATOM	11278	O2*	G	A	546	152.678	92.021	27.883	1.00	60.60	A16S
ATOM	11279	C3*	G	A	546	151.417	93.993	27.224	1.00	60.60	A16S
ATOM	11280	O3*	G	A	546	150.301	93.103	27.151	1.00	60.60	A16S
ATOM	11281	P	A	A	547	149.366	92.865	28.445	1.00	68.22	A16S
ATOM	11282	O1P	A	A	547	148.027	92.400	27.941	1.00	69.98	A16S
ATOM	11283	O2P	A	A	547	149.436	94.056	29.336	1.00	69.98	A16S
ATOM	11284	O5*	A	A	547	150.094	91.655	29.187	1.00	68.22	A16S
ATOM	11285	C5*	A	A	547	149.492	90.353	29.239	1.00	68.22	A16S
ATOM	11286	C4*	A	A	547	150.200	89.415	28.300	1.00	68.22	A16S
ATOM	11287	O4*	A	A	547	151.574	89.205	28.728	1.00	68.22	A16S
ATOM	11288	C1*	A	A	547	151.810	87.820	28.909	1.00	68.22	A16S
ATOM	11289	N9	A	A	547	152.714	87.647	30.045	1.00	69.98	A16S
ATOM	11290	C4	A	A	547	154.071	87.484	29.970	1.00	69.98	A16S
ATOM	11291	N3	A	A	547	154.823	87.444	28.863	1.00	69.98	A16S
ATOM	11292	C2	A	A	547	156.101	87.265	29.173	1.00	69.98	A16S
ATOM	11293	N1	A	A	547	156.666	87.134	30.371	1.00	69.98	A16S
ATOM	11294	C6	A	A	547	155.876	87.181	31.463	1.00	69.98	A16S
ATOM	11295	N6	A	A	547	156.436	87.051	32.663	1.00	69.98	A16S
ATOM	11296	C5	A	A	547	154.509	87.364	31.269	1.00	69.98	A16S
ATOM	11297	N7	A	A	547	153.450	87.448	32.155	1.00	69.98	A16S
ATOM	11298	C8	A	A	547	152.409	87.613	31.382	1.00	69.98	A16S
ATOM	11299	C2*	A	A	547	150.439	87.180	29.115	1.00	68.22	A16S
ATOM	11300	O2*	A	A	547	150.461	85.789	28.849	1.00	68.22	A16S
ATOM	11301	C3*	A	A	547	149.559	88.038	28.204	1.00	68.22	A16S
ATOM	11302	O3*	A	A	547	149.606	87.620	26.845	1.00	68.22	A16S
ATOM	11303	P	G	A	548	148.710	88.390	25.751	1.00	56.24	A16S
ATOM	11304	O1P	G	A	548	147.479	88.918	26.421	1.00	59.41	A16S
ATOM	11305	O2P	G	A	548	148.572	87.551	24.529	1.00	59.41	A16S
ATOM	11306	O5*	G	A	548	149.589	89.661	25.396	1.00	56.24	A16S
ATOM	11307	C5*	G	A	548	150.588	89.610	24.386	1.00	56.24	A16S
ATOM	11308	C4*	G	A	548	151.902	89.971	24.988	1.00	56.24	A16S
ATOM	11309	O4*	G	A	548	152.460	88.792	25.610	1.00	56.24	A16S
ATOM	11310	C1*	G	A	548	153.873	88.812	25.471	1.00	56.24	A16S
ATOM	11311	N9	G	A	548	154.291	87.596	24.771	1.00	59.41	A16S
ATOM	11312	C4	G	A	548	155.570	87.095	24.681	1.00	59.41	A16S



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ATOM	11313	N3	G	A	548	156.681	87.668	25.180	1.00	59.41	A16S
ATOM	11314	C2	G	A	548	157.757	86.940	24.947	1.00	59.41	A16S
ATOM	11315	N2	G	A	548	158.961	87.389	25.339	1.00	59.41	A16S
ATOM	11316	N1	G	A	548	157.738	85.729	24.305	1.00	59.41	A16S
ATOM	11317	C6	G	A	548	156.602	85.123	23.791	1.00	59.41	A16S
ATOM	11318	O6	G	A	548	156.686	84.027	23.238	1.00	59.41	A16S
ATOM	11319	C5	G	A	548	155.451	85.908	24.004	1.00	59.41	A16S
ATOM	11320	N7	G	A	548	154.134	85.681	23.635	1.00	59.41	A16S
ATOM	11321	C8	G	A	548	153.485	86.709	24.105	1.00	59.41	A16S
ATOM	11322	C2*	G	A	548	154.254	90.113	24.761	1.00	56.24	A16S
ATOM	11323	O2*	G	A	548	154.567	91.107	25.724	1.00	56.24	A16S
ATOM	11324	C3*	G	A	548	152.968	90.438	24.019	1.00	56.24	A16S
ATOM	11325	O3*	G	A	548	152.847	91.827	23.788	1.00	56.24	A16S
ATOM	11326	P	C	A	549	153.185	92.410	22.339	1.00	53.64	A16S
ATOM	11327	O1P	C	A	549	152.862	93.860	22.363	1.00	48.32	A16S
ATOM	11328	O2P	C	A	549	152.541	91.524	21.315	1.00	48.32	A16S
ATOM	11329	O5*	C	A	549	154.762	92.217	22.222	1.00	53.64	A16S
ATOM	11330	C5*	C	A	549	155.679	93.051	22.951	1.00	53.64	A16S
ATOM	11331	C4*	C	A	549	157.087	92.503	22.830	1.00	53.64	A16S
ATOM	11332	O4*	C	A	549	157.097	91.151	23.339	1.00	53.64	A16S
ATOM	11333	C1*	C	A	549	158.052	90.384	22.640	1.00	53.64	A16S
ATOM	11334	N1	C	A	549	157.386	89.255	22.001	1.00	48.32	A16S
ATOM	11335	C6	C	A	549	156.026	89.182	21.913	1.00	48.32	A16S
ATOM	11336	C2	C	A	549	158.177	88.247	21.478	1.00	48.32	A16S
ATOM	11337	O2	C	A	549	159.398	88.353	21.568	1.00	48.32	A16S
ATOM	11338	N3	C	A	549	157.604	87.189	20.882	1.00	48.32	A16S
ATOM	11339	C4	C	A	549	156.280	87.123	20.787	1.00	48.32	A16S
ATOM	11340	N4	C	A	549	155.757	86.070	20.165	1.00	48.32	A16S
ATOM	11341	C5	C	A	549	155.434	88.142	21.320	1.00	48.32	A16S
ATOM	11342	C2*	C	A	549	158.715	91.278	21.606	1.00	53.64	A16S
ATOM	11343	O2*	C	A	549	159.919	91.765	22.151	1.00	53.64	A16S
ATOM	11344	C3*	C	A	549	157.673	92.369	21.429	1.00	53.64	A16S
ATOM	11345	O3*	C	A	549	158.307	93.564	21.002	1.00	53.64	A16S
ATOM	11346	P	G	A	550	158.566	93.818	19.433	1.00	65.26	A16S
ATOM	11347	O1P	G	A	550	159.366	95.073	19.419	1.00	51.18	A16S
ATOM	11348	O2P	G	A	550	157.275	93.761	18.699	1.00	51.18	A16S
ATOM	11349	O5*	G	A	550	159.458	92.583	18.934	1.00	65.26	A16S
ATOM	11350	C5*	G	A	550	160.882	92.739	18.714	1.00	65.26	A16S
ATOM	11351	C4*	G	A	550	161.533	91.424	18.337	1.00	65.26	A16S
ATOM	11352	O4*	G	A	550	160.954	90.356	19.130	1.00	65.26	A16S
ATOM	11353	C1*	G	A	550	161.143	89.117	18.464	1.00	65.26	A16S
ATOM	11354	N9	G	A	550	159.869	88.432	18.286	1.00	51.18	A16S
ATOM	11355	C4	G	A	550	159.727	87.127	17.894	1.00	51.18	A16S
ATOM	11356	N3	G	A	550	160.733	86.266	17.646	1.00	51.18	A16S
ATOM	11357	C2	G	A	550	160.287	85.093	17.227	1.00	51.18	A16S
ATOM	11358	N2	G	A	550	161.149	84.134	16.897	1.00	51.18	A16S
ATOM	11359	N1	G	A	550	158.965	84.778	17.087	1.00	51.18	A16S
ATOM	11360	C6	G	A	550	157.910	85.644	17.337	1.00	51.18	A16S
ATOM	11361	O6	G	A	550	156.744	85.260	17.155	1.00	51.18	A16S
ATOM	11362	C5	G	A	550	158.375	86.922	17.778	1.00	51.18	A16S
ATOM	11363	N7	G	A	550	157.673	88.069	18.119	1.00	51.18	A16S
ATOM	11364	C8	G	A	550	158.601	88.936	18.424	1.00	51.18	A16S
ATOM	11365	C2*	G	A	550	161.747	89.418	17.100	1.00	65.26	A16S
ATOM	11366	O2*	G	A	550	163.138	89.167	17.178	1.00	65.26	A16S
ATOM	11367	C3*	G	A	550	161.393	90.890	16.920	1.00	65.26	A16S
ATOM	11368	O3*	G	A	550	162.278	91.483	15.985	1.00	65.26	A16S
ATOM	11369	P	U	A	551	161.962	91.351	14.410	1.00	50.83	A16S
ATOM	11370	O1P	U	A	551	162.924	92.222	13.684	1.00	55.98	A16S
ATOM	11371	O2P	U	A	551	160.515	91.543	14.218	1.00	55.98	A16S
ATOM	11372	O5*	U	A	551	162.262	89.832	14.054	1.00	50.83	A16S
ATOM	11373	C5*	U	A	551	163.576	89.300	14.222	1.00	50.83	A16S
ATOM	11374	C4*	U	A	551	163.608	87.849	13.825	1.00	50.83	A16S
ATOM	11375	O4*	U	A	551	162.744	87.062	14.683	1.00	50.83	A16S
ATOM	11376	C1*	U	A	551	162.192	85.984	13.944	1.00	50.83	A16S
ATOM	11377	N1	U	A	551	160.728	86.085	13.993	1.00	55.98	A16S
ATOM	11378	C6	U	A	551	160.108	87.229	14.415	1.00	55.98	A16S
ATOM	11379	C2	U	A	551	159.996	84.981	13.605	1.00	55.98	A16S
ATOM	11380	O2	U	A	551	160.500	83.959	13.188	1.00	55.98	A16S
ATOM	11381	N3	U	A	551	158.647	85.121	13.709	1.00	55.98	A16S
ATOM	11382	C4	U	A	551	157.967	86.227	14.129	1.00	55.98	A16S
ATOM	11383	O4	U	A	551	156.741	86.192	14.174	1.00	55.98	A16S
ATOM	11384	C5	U	A	551	158.788	87.337	14.491	1.00	55.98	A16S
ATOM	11385	C2*	U	A	551	162.740	86.068	12.524	1.00	50.83	A16S
ATOM	11386	O2*	U	A	551	163.851	85.196	12.450	1.00	50.83	A16S
ATOM	11387	C3*	U	A	551	163.109	87.544	12.433	1.00	50.83	A16S
ATOM	11388	O3*	U	A	551	164.120	87.812	11.497	1.00	50.83	A16S
ATOM	11389	P	U	A	552	163.709	88.210	10.008	1.00	55.28	A16S



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ATOM	11390	O1P	U	A	552	164.935	88.738	9.331	1.00	61.78	A16S
ATOM	11391	O2P	U	A	552	162.483	89.055	10.089	1.00	61.78	A16S
ATOM	11392	O5*	U	A	552	163.290	86.815	9.371	1.00	55.28	A16S
ATOM	11393	C5*	U	A	552	164.220	85.730	9.300	1.00	55.28	A16S
ATOM	11394	C4*	U	A	552	163.495	84.466	8.926	1.00	55.28	A16S
ATOM	11395	O4*	U	A	552	162.598	84.066	9.997	1.00	55.28	A16S
ATOM	11396	C1*	U	A	552	161.441	83.457	9.450	1.00	55.28	A16S
ATOM	11397	N1	U	A	552	160.251	84.196	9.894	1.00	61.78	A16S
ATOM	11398	C6	U	A	552	160.313	85.510	10.289	1.00	61.78	A16S
ATOM	11399	C2	U	A	552	159.049	83.516	9.886	1.00	61.78	A16S
ATOM	11400	O2	U	A	552	158.960	82.344	9.564	1.00	61.78	A16S
ATOM	11401	N3	U	A	552	157.955	84.252	10.269	1.00	61.78	A16S
ATOM	11402	C4	U	A	552	157.942	85.565	10.665	1.00	61.78	A16S
ATOM	11403	O4	U	A	552	156.871	86.095	10.973	1.00	61.78	A16S
ATOM	11404	C5	U	A	552	159.231	86.199	10.666	1.00	61.78	A16S
ATOM	11405	C2*	U	A	552	161.583	83.474	7.929	1.00	55.28	A16S
ATOM	11406	O2*	U	A	552	162.076	82.231	7.483	1.00	55.28	A16S
ATOM	11407	C3*	U	A	552	162.584	84.599	7.728	1.00	55.28	A16S
ATOM	11408	O3*	U	A	552	163.283	84.487	6.515	1.00	55.28	A16S
ATOM	11409	P	A	A	553	162.714	85.247	5.230	1.00	51.06	A16S
ATOM	11410	O1P	A	A	553	163.644	84.951	4.103	1.00	51.02	A16S
ATOM	11411	O2P	A	A	553	162.442	86.668	5.614	1.00	51.02	A16S
ATOM	11412	O5*	A	A	553	161.349	84.481	4.940	1.00	51.06	A16S
ATOM	11413	C5*	A	A	553	161.375	83.083	4.642	1.00	51.06	A16S
ATOM	11414	C4*	A	A	553	159.995	82.587	4.342	1.00	51.06	A16S
ATOM	11415	O4*	A	A	553	159.235	82.452	5.562	1.00	51.06	A16S
ATOM	11416	C1*	A	A	553	157.884	82.782	5.310	1.00	51.06	A16S
ATOM	11417	N9	A	A	553	157.545	83.927	6.149	1.00	51.02	A16S
ATOM	11418	C4	A	A	553	156.366	84.172	6.811	1.00	51.02	A16S
ATOM	11419	N3	A	A	553	155.280	83.386	6.869	1.00	51.02	A16S
ATOM	11420	C2	A	A	553	154.325	83.973	7.566	1.00	51.02	A16S
ATOM	11421	N1	A	A	553	154.328	85.166	8.161	1.00	51.02	A16S
ATOM	11422	C6	A	A	553	155.435	85.925	8.082	1.00	51.02	A16S
ATOM	11423	N6	A	A	553	155.440	87.131	8.658	1.00	51.02	A16S
ATOM	11424	C5	A	A	553	156.515	85.414	7.391	1.00	51.02	A16S
ATOM	11425	N7	A	A	553	157.772	85.928	7.140	1.00	51.02	A16S
ATOM	11426	C8	A	A	553	158.346	85.007	6.407	1.00	51.02	A16S
ATOM	11427	C2*	A	A	553	157.747	83.105	3.816	1.00	51.06	A16S
ATOM	11428	O2*	A	A	553	157.340	81.942	3.131	1.00	51.06	A16S
ATOM	11429	C3*	A	A	553	159.171	83.490	3.446	1.00	51.06	A16S
ATOM	11430	O3*	A	A	553	159.472	83.233	2.079	1.00	51.06	A16S
ATOM	11431	P	C	A	554	159.287	84.404	0.990	1.00	51.04	A16S
ATOM	11432	O1P	C	A	554	159.738	83.918	-0.356	1.00	48.83	A16S
ATOM	11433	O2P	C	A	554	159.883	85.651	1.560	1.00	48.83	A16S
ATOM	11434	O5*	C	A	554	157.703	84.559	0.933	1.00	51.04	A16S
ATOM	11435	C5*	C	A	554	156.894	83.491	0.418	1.00	51.04	A16S
ATOM	11436	C4*	C	A	554	155.433	83.784	0.636	1.00	51.04	A16S
ATOM	11437	O4*	C	A	554	155.113	83.712	2.046	1.00	51.04	A16S
ATOM	11438	C1*	C	A	554	154.058	84.611	2.330	1.00	51.04	A16S
ATOM	11439	N1	C	A	554	154.521	85.571	3.342	1.00	48.83	A16S
ATOM	11440	C6	C	A	554	155.748	86.156	3.235	1.00	48.83	A16S
ATOM	11441	C2	C	A	554	153.676	85.897	4.404	1.00	48.83	A16S
ATOM	11442	O2	C	A	554	152.577	85.310	4.507	1.00	48.83	A16S
ATOM	11443	N3	C	A	554	154.074	86.833	5.293	1.00	48.83	A16S
ATOM	11444	C4	C	A	554	155.262	87.416	5.157	1.00	48.83	A16S
ATOM	11445	N4	C	A	554	155.612	88.345	6.037	1.00	48.83	A16S
ATOM	11446	C5	C	A	554	156.149	87.076	4.109	1.00	48.83	A16S
ATOM	11447	C2*	C	A	554	153.672	85.316	1.026	1.00	51.04	A16S
ATOM	11448	O2*	C	A	554	152.595	84.648	0.412	1.00	51.04	A16S
ATOM	11449	C3*	C	A	554	154.928	85.149	0.196	1.00	51.04	A16S
ATOM	11450	O3*	C	A	554	154.582	85.153	-1.168	1.00	51.04	A16S
ATOM	11451	P	C	A	555	154.387	86.548	-1.923	1.00	47.54	A16S
ATOM	11452	O1P	C	A	555	154.226	86.214	-3.364	1.00	55.24	A16S
ATOM	11453	O2P	C	A	555	155.466	87.470	-1.505	1.00	55.24	A16S
ATOM	11454	O5*	C	A	555	153.016	87.128	-1.346	1.00	47.54	A16S
ATOM	11455	C5*	C	A	555	151.742	86.646	-1.836	1.00	47.54	A16S
ATOM	11456	C4*	C	A	555	150.617	87.562	-1.402	1.00	47.54	A16S
ATOM	11457	O4*	C	A	555	150.403	87.450	0.024	1.00	47.54	A16S
ATOM	11458	C1*	C	A	555	150.071	88.711	0.566	1.00	47.54	A16S
ATOM	11459	N1	C	A	555	151.089	89.070	1.579	1.00	55.24	A16S
ATOM	11460	C6	C	A	555	152.269	88.386	1.661	1.00	55.24	A16S
ATOM	11461	C2	C	A	555	150.832	90.129	2.461	1.00	55.24	A16S
ATOM	11462	O2	C	A	555	149.757	90.732	2.383	1.00	55.24	A16S
ATOM	11463	N3	C	A	555	151.759	90.468	3.377	1.00	55.24	A16S
ATOM	11464	C4	C	A	555	152.900	89.794	3.446	1.00	55.24	A16S
ATOM	11465	N4	C	A	555	153.779	90.161	4.369	1.00	55.24	A16S
ATOM	11466	C5	C	A	555	153.190	88.709	2.572	1.00	55.24	A16S



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ATOM	11467	C2*	C	A	555	149.959	89.688	-0.604	1.00	47.54	A16S
ATOM	11468	O2*	C	A	555	148.614	89.715	-1.045	1.00	47.54	A16S
ATOM	11469	C3*	C	A	555	150.848	89.035	-1.645	1.00	47.54	A16S
ATOM	11470	O3*	C	A	555	150.421	89.377	-2.945	1.00	47.54	A16S
ATOM	11471	P	C	A	556	151.062	90.655	-3.667	1.00	45.36	A16S
ATOM	11472	O1P	C	A	556	150.676	90.623	-5.115	1.00	48.42	A16S
ATOM	11473	O2P	C	A	556	152.499	90.669	-3.278	1.00	48.42	A16S
ATOM	11474	O5*	C	A	556	150.345	91.906	-2.984	1.00	45.36	A16S
ATOM	11475	C5*	C	A	556	148.990	92.267	-3.336	1.00	45.36	A16S
ATOM	11476	C4*	C	A	556	148.501	93.406	-2.476	1.00	45.36	A16S
ATOM	11477	O4*	C	A	556	148.422	92.973	-1.094	1.00	45.36	A16S
ATOM	11478	C1*	C	A	556	148.732	94.052	-0.227	1.00	45.36	A16S
ATOM	11479	N1	C	A	556	149.958	93.722	0.520	1.00	48.42	A16S
ATOM	11480	C6	C	A	556	150.891	92.885	-0.017	1.00	48.42	A16S
ATOM	11481	C2	C	A	556	150.177	94.303	1.793	1.00	48.42	A16S
ATOM	11482	O2	C	A	556	149.298	95.025	2.289	1.00	48.42	A16S
ATOM	11483	N3	C	A	556	151.341	94.052	2.443	1.00	48.42	A16S
ATOM	11484	C4	C	A	556	152.250	93.247	1.888	1.00	48.42	A16S
ATOM	11485	N4	C	A	556	153.382	93.034	2.539	1.00	48.42	A16S
ATOM	11486	C5	C	A	556	152.037	92.622	0.627	1.00	48.42	A16S
ATOM	11487	C2*	C	A	556	148.962	95.274	-1.105	1.00	45.36	A16S
ATOM	11488	O2*	C	A	556	147.734	95.960	-1.208	1.00	45.36	A16S
ATOM	11489	C3*	C	A	556	149.399	94.623	-2.410	1.00	45.36	A16S
ATOM	11490	O3*	C	A	556	149.296	95.462	-3.549	1.00	45.36	A16S
ATOM	11491	P	G	A	557	150.558	96.388	-3.959	1.00	46.80	A16S
ATOM	11492	O1P	G	A	557	150.202	97.164	-5.173	1.00	65.41	A16S
ATOM	11493	O2P	G	A	557	151.788	95.553	-3.970	1.00	65.41	A16S
ATOM	11494	O5*	G	A	557	150.673	97.408	-2.740	1.00	46.80	A16S
ATOM	11495	C5*	G	A	557	149.525	98.162	-2.308	1.00	46.80	A16S
ATOM	11496	C4*	G	A	557	149.843	98.938	-1.055	1.00	46.80	A16S
ATOM	11497	O4*	G	A	557	150.197	98.040	0.020	1.00	46.80	A16S
ATOM	11498	C1*	G	A	557	151.214	98.623	0.808	1.00	46.80	A16S
ATOM	11499	N9	G	A	557	152.353	97.713	0.827	1.00	65.41	A16S
ATOM	11500	C4	G	A	557	153.457	97.814	1.625	1.00	65.41	A16S
ATOM	11501	N3	G	A	557	153.698	98.789	2.519	1.00	65.41	A16S
ATOM	11502	C2	G	A	557	154.852	98.619	3.131	1.00	65.41	A16S
ATOM	11503	N2	G	A	557	155.268	99.507	4.037	1.00	65.41	A16S
ATOM	11504	N1	G	A	557	155.687	97.569	2.899	1.00	65.41	A16S
ATOM	11505	C6	G	A	557	155.447	96.547	1.987	1.00	65.41	A16S
ATOM	11506	O6	G	A	557	156.267	95.629	1.855	1.00	65.41	A16S
ATOM	11507	C5	G	A	557	154.231	96.726	1.315	1.00	65.41	A16S
ATOM	11508	N7	G	A	557	153.635	95.957	0.330	1.00	65.41	A16S
ATOM	11509	C8	G	A	557	152.523	96.581	0.070	1.00	65.41	A16S
ATOM	11510	C2*	G	A	557	151.511	100.011	0.247	1.00	46.80	A16S
ATOM	11511	O2*	G	A	557	150.739	100.930	0.984	1.00	46.80	A16S
ATOM	11512	C3*	G	A	557	151.020	99.878	-1.185	1.00	46.80	A16S
ATOM	11513	O3*	G	A	557	150.533	101.089	-1.718	1.00	46.80	A16S
ATOM	11514	P	G	A	558	151.115	101.632	-3.105	1.00	42.44	A16S
ATOM	11515	O1P	G	A	558	150.158	102.638	-3.679	1.00	53.92	A16S
ATOM	11516	O2P	G	A	558	151.501	100.437	-3.902	1.00	53.92	A16S
ATOM	11517	O5*	G	A	558	152.416	102.419	-2.646	1.00	42.44	A16S
ATOM	11518	C5*	G	A	558	152.273	103.577	-1.834	1.00	42.44	A16S
ATOM	11519	C4*	G	A	558	153.422	103.688	-0.888	1.00	42.44	A16S
ATOM	11520	O4*	G	A	558	153.559	102.472	-0.127	1.00	42.44	A16S
ATOM	11521	C1*	G	A	558	154.924	102.255	0.164	1.00	42.44	A16S
ATOM	11522	N9	G	A	558	155.284	100.934	-0.329	1.00	53.92	A16S
ATOM	11523	C4	G	A	558	156.257	100.110	0.176	1.00	53.92	A16S
ATOM	11524	N3	G	A	558	157.042	100.374	1.234	1.00	53.92	A16S
ATOM	11525	C2	G	A	558	157.899	99.405	1.467	1.00	53.92	A16S
ATOM	11526	N2	G	A	558	158.773	99.520	2.467	1.00	53.92	A16S
ATOM	11527	N1	G	A	558	157.969	98.248	0.736	1.00	53.92	A16S
ATOM	11528	C6	G	A	558	157.152	97.938	-0.347	1.00	53.92	A16S
ATOM	11529	O6	G	A	558	157.265	96.827	-0.924	1.00	53.92	A16S
ATOM	11530	C5	G	A	558	156.244	98.996	-0.627	1.00	53.92	A16S
ATOM	11531	N7	G	A	558	155.278	99.115	-1.618	1.00	53.92	A16S
ATOM	11532	C8	G	A	558	154.729	100.275	-1.396	1.00	53.92	A16S
ATOM	11533	C2*	G	A	558	155.735	103.379	-0.488	1.00	42.44	A16S
ATOM	11534	O2*	G	A	558	156.039	104.359	0.479	1.00	42.44	A16S
ATOM	11535	C3*	G	A	558	154.765	103.884	-1.549	1.00	42.44	A16S
ATOM	11536	O3*	G	A	558	154.911	105.264	-1.789	1.00	42.44	A16S
ATOM	11537	P	A	A	559	155.623	105.770	-3.120	1.00	47.57	A16S
ATOM	11538	O1P	A	A	559	157.065	105.968	-2.792	1.00	52.46	A16S
ATOM	11539	O2P	A	A	559	154.816	106.900	-3.650	1.00	52.46	A16S
ATOM	11540	O5*	A	A	559	155.483	104.550	-4.117	1.00	47.57	A16S
ATOM	11541	C5*	A	A	559	155.442	104.786	-5.522	1.00	47.57	A16S
ATOM	11542	C4*	A	A	559	155.103	103.517	-6.226	1.00	47.57	A16S
ATOM	11543	O4*	A	A	559	156.214	102.616	-6.105	1.00	47.57	A16S



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ATOM	11544	C1*	A	A	559	155.729	101.306	-6.137	1.00	47.57	A16S
ATOM	11545	N9	A	A	559	156.771	100.440	-5.583	1.00	52.46	A16S
ATOM	11546	C4	A	A	559	157.394	100.540	-4.358	1.00	52.46	A16S
ATOM	11547	N3	A	A	559	157.182	101.459	-3.408	1.00	52.46	A16S
ATOM	11548	C2	A	A	559	157.944	101.215	-2.341	1.00	52.46	A16S
ATOM	11549	N1	A	A	559	158.837	100.245	-2.141	1.00	52.46	A16S
ATOM	11550	C6	A	A	559	159.053	99.357	-3.126	1.00	52.46	A16S
ATOM	11551	N6	A	A	559	159.989	98.418	-2.940	1.00	52.46	A16S
ATOM	11552	C5	A	A	559	158.286	99.486	-4.300	1.00	52.46	A16S
ATOM	11553	N7	A	A	559	158.239	98.745	-5.468	1.00	52.46	A16S
ATOM	11554	C8	A	A	559	157.333	99.354	-6.196	1.00	52.46	A16S
ATOM	11555	C2*	A	A	559	154.402	101.341	-5.376	1.00	47.57	A16S
ATOM	11556	O2*	A	A	559	153.539	100.362	-5.897	1.00	47.57	A16S
ATOM	11557	C3*	A	A	559	153.942	102.795	-5.580	1.00	47.57	A16S
ATOM	11558	O3*	A	A	559	152.643	103.214	-6.046	1.00	47.57	A16S
ATOM	11559	P	U	A	560	152.088	102.756	-7.483	1.00	52.66	A16S
ATOM	11560	O1P	U	A	560	150.604	102.749	-7.399	1.00	72.33	A16S
ATOM	11561	O2P	U	A	560	152.790	101.539	-7.946	1.00	72.33	A16S
ATOM	11562	O5*	U	A	560	152.486	103.946	-8.450	1.00	52.66	A16S
ATOM	11563	C5*	U	A	560	152.958	103.664	-9.768	1.00	52.66	A16S
ATOM	11564	C4*	U	A	560	153.391	104.929	-10.445	1.00	52.66	A16S
ATOM	11565	O4*	U	A	560	152.233	105.611	-10.997	1.00	52.66	A16S
ATOM	11566	C1*	U	A	560	152.349	107.010	-10.794	1.00	52.66	A16S
ATOM	11567	N1	U	A	560	151.243	107.432	-9.918	1.00	72.33	A16S
ATOM	11568	C6	U	A	560	150.792	106.623	-8.906	1.00	72.33	A16S
ATOM	11569	C2	U	A	560	150.676	108.666	-10.140	1.00	72.33	A16S
ATOM	11570	O2	U	A	560	151.055	109.418	-11.014	1.00	72.33	A16S
ATOM	11571	N3	U	A	560	149.648	108.994	-9.293	1.00	72.33	A16S
ATOM	11572	C4	U	A	560	149.147	108.229	-8.257	1.00	72.33	A16S
ATOM	11573	O4	U	A	560	148.217	108.663	-7.565	1.00	72.33	A16S
ATOM	11574	C5	U	A	560	149.795	106.971	-8.090	1.00	72.33	A16S
ATOM	11575	C2*	U	A	560	153.727	107.276	-10.177	1.00	52.66	A16S
ATOM	11576	O2*	U	A	560	154.625	107.702	-11.183	1.00	52.66	A16S
ATOM	11577	C3*	U	A	560	154.014	105.933	-9.502	1.00	52.66	A16S
ATOM	11578	O3*	U	A	560	155.316	105.572	-9.002	1.00	52.66	A16S
ATOM	11579	P	U	A	561	156.566	105.347	-9.987	1.00	45.49	A16S
ATOM	11580	O1P	U	A	561	157.756	105.495	-9.112	1.00	72.16	A16S
ATOM	11581	O2P	U	A	561	156.451	106.163	-11.216	1.00	72.16	A16S
ATOM	11582	O5*	U	A	561	156.473	103.808	-10.380	1.00	45.49	A16S
ATOM	11583	C5*	U	A	561	156.422	103.415	-11.756	1.00	45.49	A16S
ATOM	11584	C4*	U	A	561	156.765	101.959	-11.902	1.00	45.49	A16S
ATOM	11585	O4*	U	A	561	158.138	101.749	-11.482	1.00	45.49	A16S
ATOM	11586	C1*	U	A	561	158.193	100.652	-10.599	1.00	45.49	A16S
ATOM	11587	N1	U	A	561	159.299	100.846	-9.653	1.00	72.16	A16S
ATOM	11588	C6	U	A	561	159.372	101.970	-8.885	1.00	72.16	A16S
ATOM	11589	C2	U	A	561	160.256	99.838	-9.546	1.00	72.16	A16S
ATOM	11590	O2	U	A	561	160.270	98.832	-10.253	1.00	72.16	A16S
ATOM	11591	N3	U	A	561	161.202	100.049	-8.584	1.00	72.16	A16S
ATOM	11592	C4	U	A	561	161.299	101.135	-7.744	1.00	72.16	A16S
ATOM	11593	O4	U	A	561	162.081	101.092	-6.791	1.00	72.16	A16S
ATOM	11594	C5	U	A	561	160.311	102.147	-7.962	1.00	72.16	A16S
ATOM	11595	C2*	U	A	561	156.815	100.573	-9.947	1.00	45.49	A16S
ATOM	11596	O2*	U	A	561	156.579	99.259	-9.475	1.00	45.49	A16S
ATOM	11597	C3*	U	A	561	155.908	100.976	-11.109	1.00	45.49	A16S
ATOM	11598	O3*	U	A	561	155.640	99.841	-11.914	1.00	45.49	A16S
ATOM	11599	P	C	A	562	154.308	98.993	-11.664	1.00	41.01	A16S
ATOM	11600	O1P	C	A	562	153.988	99.103	-10.222	1.00	51.64	A16S
ATOM	11601	O2P	C	A	562	154.443	97.655	-12.286	1.00	51.64	A16S
ATOM	11602	O5*	C	A	562	153.186	99.776	-12.481	1.00	41.01	A16S
ATOM	11603	C5*	C	A	562	153.341	100.029	-13.892	1.00	41.01	A16S
ATOM	11604	C4*	C	A	562	152.198	99.422	-14.686	1.00	41.01	A16S
ATOM	11605	O4*	C	A	562	152.805	98.960	-15.913	1.00	41.01	A16S
ATOM	11606	C1*	C	A	562	152.620	97.568	-16.044	1.00	41.01	A16S
ATOM	11607	N1	C	A	562	153.847	97.006	-16.613	1.00	51.64	A16S
ATOM	11608	C6	C	A	562	155.017	97.044	-15.915	1.00	51.64	A16S
ATOM	11609	C2	C	A	562	153.801	96.439	-17.881	1.00	51.64	A16S
ATOM	11610	O2	C	A	562	152.739	96.448	-18.506	1.00	51.64	A16S
ATOM	11611	N3	C	A	562	154.919	95.905	-18.404	1.00	51.64	A16S
ATOM	11612	C4	C	A	562	156.060	95.939	-17.711	1.00	51.64	A16S
ATOM	11613	N4	C	A	562	157.149	95.385	-18.258	1.00	51.64	A16S
ATOM	11614	C5	C	A	562	156.138	96.534	-16.423	1.00	51.64	A16S
ATOM	11615	C2*	C	A	562	152.267	97.035	-14.656	1.00	41.01	A16S
ATOM	11616	O2*	C	A	562	151.453	95.892	-14.771	1.00	41.01	A16S
ATOM	11617	C3*	C	A	562	151.491	98.203	-14.071	1.00	41.01	A16S
ATOM	11618	O3*	C	A	562	150.140	98.042	-14.572	1.00	41.01	A16S
ATOM	11619	P	A	A	563	148.913	98.921	-13.978	1.00	43.89	A16S
ATOM	11620	O1P	A	A	563	148.992	99.000	-12.480	1.00	47.64	A16S



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ATOM	11621	O2P	A	A	563	147.662	98.402	-14.615	1.00	47.64	A16S
ATOM	11622	O5*	A	A	563	149.202	100.388	-14.551	1.00	43.89	A16S
ATOM	11623	C5*	A	A	563	148.466	101.512	-14.068	1.00	43.89	A16S
ATOM	11624	C4*	A	A	563	148.983	102.791	-14.668	1.00	43.89	A16S
ATOM	11625	O4*	A	A	563	150.296	103.102	-14.180	1.00	43.89	A16S
ATOM	11626	C1*	A	A	563	150.836	104.090	-15.024	1.00	43.89	A16S
ATOM	11627	N9	A	A	563	152.290	103.990	-15.026	1.00	47.64	A16S
ATOM	11628	C4	A	A	563	153.114	103.214	-15.806	1.00	47.64	A16S
ATOM	11629	N3	A	A	563	152.762	102.359	-16.779	1.00	47.64	A16S
ATOM	11630	C2	A	A	563	153.834	101.776	-17.299	1.00	47.64	A16S
ATOM	11631	N1	A	A	563	155.115	101.937	-16.982	1.00	47.64	A16S
ATOM	11632	C6	A	A	563	155.431	102.801	-15.993	1.00	47.64	A16S
ATOM	11633	N6	A	A	563	156.710	102.958	-15.650	1.00	47.64	A16S
ATOM	11634	C5	A	A	563	154.395	103.484	-15.374	1.00	47.64	A16S
ATOM	11635	N7	A	A	563	154.386	104.425	-14.357	1.00	47.64	A16S
ATOM	11636	C8	A	A	563	153.119	104.692	-14.191	1.00	47.64	A16S
ATOM	11637	C2*	A	A	563	150.111	104.027	-16.372	1.00	43.89	A16S
ATOM	11638	O2*	A	A	563	149.454	105.259	-16.586	1.00	43.89	A16S
ATOM	11639	C3*	A	A	563	149.132	102.866	-16.175	1.00	43.89	A16S
ATOM	11640	O3*	A	A	563	147.885	103.246	-16.717	1.00	43.89	A16S
ATOM	11641	P	C	A	564	147.275	102.456	-17.961	1.00	37.14	A16S
ATOM	11642	O1P	C	A	564	147.616	101.009	-17.799	1.00	51.48	A16S
ATOM	11643	O2P	C	A	564	147.671	103.185	-19.193	1.00	51.48	A16S
ATOM	11644	O5*	C	A	564	145.707	102.619	-17.726	1.00	37.14	A16S
ATOM	11645	C5*	C	A	564	144.811	103.040	-18.780	1.00	37.14	A16S
ATOM	11646	C4*	C	A	564	143.492	103.497	-18.189	1.00	37.14	A16S
ATOM	11647	O4*	C	A	564	142.822	102.384	-17.543	1.00	37.14	A16S
ATOM	11648	C1*	C	A	564	142.185	102.836	-16.363	1.00	37.14	A16S
ATOM	11649	N1	C	A	564	142.783	102.145	-15.219	1.00	51.48	A16S
ATOM	11650	C6	C	A	564	143.908	101.389	-15.375	1.00	51.48	A16S
ATOM	11651	C2	C	A	564	142.193	102.291	-13.949	1.00	51.48	A16S
ATOM	11652	O2	C	A	564	141.146	102.961	-13.830	1.00	51.48	A16S
ATOM	11653	N3	C	A	564	142.773	101.700	-12.884	1.00	51.48	A16S
ATOM	11654	C4	C	A	564	143.882	100.972	-13.045	1.00	51.48	A16S
ATOM	11655	N4	C	A	564	144.424	100.402	-11.951	1.00	51.48	A16S
ATOM	11656	C5	C	A	564	144.488	100.793	-14.330	1.00	51.48	A16S
ATOM	11657	C2*	C	A	564	142.402	104.348	-16.256	1.00	37.14	A16S
ATOM	11658	O2*	C	A	564	141.325	105.031	-16.832	1.00	37.14	A16S
ATOM	11659	C3*	C	A	564	143.638	104.545	-17.098	1.00	37.14	A16S
ATOM	11660	O3*	C	A	564	143.619	105.833	-17.651	1.00	37.14	A16S
ATOM	11661	P	U	A	565	144.588	106.953	-17.059	1.00	43.43	A16S
ATOM	11662	O1P	U	A	565	144.294	108.160	-17.862	1.00	61.89	A16S
ATOM	11663	O2P	U	A	565	145.979	106.425	-17.004	1.00	61.89	A16S
ATOM	11664	O5*	U	A	565	144.038	107.183	-15.587	1.00	43.43	A16S
ATOM	11665	C5*	U	A	565	142.817	107.895	-15.398	1.00	43.43	A16S
ATOM	11666	C4*	U	A	565	142.410	107.862	-13.961	1.00	43.43	A16S
ATOM	11667	O4*	U	A	565	142.217	106.486	-13.552	1.00	43.43	A16S
ATOM	11668	C1*	U	A	565	142.520	106.363	-12.175	1.00	43.43	A16S
ATOM	11669	N1	U	A	565	143.551	105.329	-11.993	1.00	61.89	A16S
ATOM	11670	C6	U	A	565	144.606	105.197	-12.867	1.00	61.89	A16S
ATOM	11671	C2	U	A	565	143.443	104.502	-10.886	1.00	61.89	A16S
ATOM	11672	O2	U	A	565	142.517	104.559	-10.094	1.00	61.89	A16S
ATOM	11673	N3	U	A	565	144.464	103.603	-10.736	1.00	61.89	A16S
ATOM	11674	C4	U	A	565	145.549	103.441	-11.553	1.00	61.89	A16S
ATOM	11675	O4	U	A	565	146.395	102.605	-11.260	1.00	61.89	A16S
ATOM	11676	C5	U	A	565	145.582	104.308	-12.684	1.00	61.89	A16S
ATOM	11677	C2*	U	A	565	142.980	107.734	-11.676	1.00	43.43	A16S
ATOM	11678	O2*	U	A	565	141.878	108.381	-11.080	1.00	43.43	A16S
ATOM	11679	C3*	U	A	565	143.414	108.411	-12.969	1.00	43.43	A16S
ATOM	11680	O3*	U	A	565	143.343	109.830	-12.893	1.00	43.43	A16S
ATOM	11681	P	G	A	566	144.663	110.680	-12.515	1.00	46.15	A16S
ATOM	11682	O1P	G	A	566	144.556	112.023	-13.149	1.00	51.33	A16S
ATOM	11683	O2P	G	A	566	144.842	110.584	-11.038	1.00	51.33	A16S
ATOM	11684	O5*	G	A	566	145.838	109.870	-13.228	1.00	46.15	A16S
ATOM	11685	C5*	G	A	566	147.042	110.528	-13.680	1.00	46.15	A16S
ATOM	11686	C4*	G	A	566	148.062	109.496	-14.107	1.00	46.15	A16S
ATOM	11687	O4*	G	A	566	148.458	108.727	-12.945	1.00	46.15	A16S
ATOM	11688	C1*	G	A	566	148.161	107.373	-13.145	1.00	46.15	A16S
ATOM	11689	N9	G	A	566	147.775	106.814	-11.856	1.00	51.33	A16S
ATOM	11690	C4	G	A	566	148.287	105.686	-11.260	1.00	51.33	A16S
ATOM	11691	N3	G	A	566	149.240	104.873	-11.772	1.00	51.33	A16S
ATOM	11692	C2	G	A	566	149.526	103.873	-10.953	1.00	51.33	A16S
ATOM	11693	N2	G	A	566	150.436	102.962	-11.300	1.00	51.33	A16S
ATOM	11694	N1	G	A	566	148.932	103.692	-9.727	1.00	51.33	A16S
ATOM	11695	C6	G	A	566	147.952	104.521	-9.183	1.00	51.33	A16S
ATOM	11696	O6	G	A	566	147.487	104.278	-8.067	1.00	51.33	A16S
ATOM	11697	C5	G	A	566	147.632	105.586	-10.053	1.00	51.33	A16S



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ATOM	11698	N7	G	A	566	146.731	106.620	-9.898	1.00	51.33	A16S
ATOM	11699	C8	G	A	566	146.848	107.321	-10.990	1.00	51.33	A16S
ATOM	11700	C2*	G	A	566	147.099	107.332	-14.242	1.00	46.15	A16S
ATOM	11701	O2*	G	A	566	147.169	106.119	-14.942	1.00	46.15	A16S
ATOM	11702	C3*	G	A	566	147.537	108.494	-15.121	1.00	46.15	A16S
ATOM	11703	O3*	G	A	566	148.619	108.049	-15.931	1.00	46.15	A16S
ATOM	11704	P	G	A	567	149.235	109.005	-17.062	1.00	56.31	A16S
ATOM	11705	O1P	G	A	567	148.711	108.543	-18.377	1.00	83.06	A16S
ATOM	11706	O2P	G	A	567	149.087	110.427	-16.657	1.00	83.06	A16S
ATOM	11707	O5*	G	A	567	150.779	108.642	-17.008	1.00	42.93	A16S
ATOM	11708	C5*	G	A	567	151.547	108.917	-15.823	1.00	42.93	A16S
ATOM	11709	C4*	G	A	567	152.998	108.537	-16.024	1.00	42.93	A16S
ATOM	11710	O4*	G	A	567	153.183	107.101	-15.980	1.00	42.93	A16S
ATOM	11711	C1*	G	A	567	154.259	106.736	-16.832	1.00	42.93	A16S
ATOM	11712	N9	G	A	567	153.769	105.763	-17.800	1.00	44.80	A16S
ATOM	11713	C4	G	A	567	154.514	104.852	-18.523	1.00	44.80	A16S
ATOM	11714	N3	G	A	567	155.846	104.655	-18.430	1.00	44.80	A16S
ATOM	11715	C2	G	A	567	156.271	103.720	-19.277	1.00	44.80	A16S
ATOM	11716	N2	G	A	567	157.566	103.383	-19.302	1.00	44.80	A16S
ATOM	11717	N1	G	A	567	155.455	103.048	-20.154	1.00	44.80	A16S
ATOM	11718	C6	G	A	567	154.085	103.243	-20.274	1.00	44.80	A16S
ATOM	11719	O6	G	A	567	153.440	102.596	-21.110	1.00	44.80	A16S
ATOM	11720	C5	G	A	567	153.615	104.227	-19.356	1.00	44.80	A16S
ATOM	11721	N7	G	A	567	152.332	104.704	-19.136	1.00	44.80	A16S
ATOM	11722	C8	G	A	567	152.472	105.605	-18.202	1.00	44.80	A16S
ATOM	11723	C2*	G	A	567	154.782	108.012	-17.508	1.00	42.93	A16S
ATOM	11724	O2*	G	A	567	155.967	108.471	-16.884	1.00	42.93	A16S
ATOM	11725	C3*	G	A	567	153.610	108.972	-17.339	1.00	42.93	A16S
ATOM	11726	O3*	G	A	567	154.027	110.325	-17.237	1.00	42.93	A16S
ATOM	11727	P	G	A	568	154.369	111.162	-18.563	1.00	46.78	A16S
ATOM	11728	O1P	G	A	568	154.559	112.554	-18.114	1.00	45.12	A16S
ATOM	11729	O2P	G	A	568	153.424	110.866	-19.678	1.00	45.12	A16S
ATOM	11730	O5*	G	A	568	155.798	110.608	-18.954	1.00	46.78	A16S
ATOM	11731	C5*	G	A	568	156.123	110.288	-20.310	1.00	46.78	A16S
ATOM	11732	C4*	G	A	568	157.111	109.166	-20.320	1.00	46.78	A16S
ATOM	11733	O4*	G	A	568	156.419	107.923	-20.051	1.00	46.78	A16S
ATOM	11734	C1*	G	A	568	157.051	106.869	-20.742	1.00	46.78	A16S
ATOM	11735	N9	G	A	568	156.066	106.230	-21.624	1.00	45.12	A16S
ATOM	11736	C4	G	A	568	156.300	105.239	-22.551	1.00	45.12	A16S
ATOM	11737	N3	G	A	568	157.489	104.673	-22.822	1.00	45.12	A16S
ATOM	11738	C2	G	A	568	157.395	103.751	-23.764	1.00	45.12	A16S
ATOM	11739	N2	G	A	568	158.491	103.088	-24.145	1.00	45.12	A16S
ATOM	11740	N1	G	A	568	156.224	103.413	-24.400	1.00	45.12	A16S
ATOM	11741	C6	G	A	568	154.987	103.988	-24.143	1.00	45.12	A16S
ATOM	11742	O6	G	A	568	154.002	103.631	-24.784	1.00	45.12	A16S
ATOM	11743	C5	G	A	568	155.070	104.970	-23.123	1.00	45.12	A16S
ATOM	11744	N7	G	A	568	154.083	105.757	-22.560	1.00	45.12	A16S
ATOM	11745	C8	G	A	568	154.718	106.492	-21.683	1.00	45.12	A16S
ATOM	11746	C2*	G	A	568	158.280	107.474	-21.432	1.00	46.78	A16S
ATOM	11747	O2*	G	A	568	159.374	107.389	-20.522	1.00	46.78	A16S
ATOM	11748	C3*	G	A	568	157.856	108.926	-21.611	1.00	46.78	A16S
ATOM	11749	O3*	G	A	568	158.969	109.820	-21.694	1.00	46.78	A16S
ATOM	11750	P	C	A	569	159.240	110.644	-23.056	1.00	50.26	A16S
ATOM	11751	O1P	C	A	569	160.235	111.705	-22.756	1.00	56.25	A16S
ATOM	11752	O2P	C	A	569	157.946	111.006	-23.697	1.00	56.25	A16S
ATOM	11753	O5*	C	A	569	159.932	109.592	-24.024	1.00	50.26	A16S
ATOM	11754	C5*	C	A	569	161.301	109.217	-23.863	1.00	50.26	A16S
ATOM	11755	C4*	C	A	569	161.647	108.181	-24.884	1.00	50.26	A16S
ATOM	11756	O4*	C	A	569	160.782	107.043	-24.677	1.00	50.26	A16S
ATOM	11757	C1*	C	A	569	160.529	106.424	-25.916	1.00	50.26	A16S
ATOM	11758	N1	C	A	569	159.096	106.166	-26.072	1.00	56.25	A16S
ATOM	11759	C6	C	A	569	158.156	106.907	-25.423	1.00	56.25	A16S
ATOM	11760	C2	C	A	569	158.711	105.155	-26.937	1.00	56.25	A16S
ATOM	11761	O2	C	A	569	159.581	104.462	-27.460	1.00	56.25	A16S
ATOM	11762	N3	C	A	569	157.411	104.947	-27.184	1.00	56.25	A16S
ATOM	11763	C4	C	A	569	156.502	105.694	-26.586	1.00	56.25	A16S
ATOM	11764	N4	C	A	569	155.240	105.475	-26.891	1.00	56.25	A16S
ATOM	11765	C5	C	A	569	156.855	106.705	-25.650	1.00	56.25	A16S
ATOM	11766	C2*	C	A	569	161.095	107.304	-27.032	1.00	50.26	A16S
ATOM	11767	O2*	C	A	569	162.268	106.707	-27.536	1.00	50.26	A16S
ATOM	11768	C3*	C	A	569	161.374	108.616	-26.315	1.00	50.26	A16S
ATOM	11769	O3*	C	A	569	162.540	109.207	-26.877	1.00	50.26	A16S
ATOM	11770	P	G	A	570	162.554	110.766	-27.243	1.00	34.76	A16S
ATOM	11771	O1P	G	A	570	162.521	111.466	-25.929	1.00	56.85	A16S
ATOM	11772	O2P	G	A	570	161.500	111.043	-28.256	1.00	56.85	A16S
ATOM	11773	O5*	G	A	570	163.979	111.025	-27.926	1.00	34.76	A16S
ATOM	11774	C5*	G	A	570	164.286	110.537	-29.261	1.00	34.76	A16S



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ATOM	11775	C4*	G	A	570	165.584	111.146	-29.765	1.00	34.76	A16S
ATOM	11776	O4*	G	A	570	165.405	112.568	-29.954	1.00	34.76	A16S
ATOM	11777	C1*	G	A	570	166.531	113.268	-29.475	1.00	34.76	A16S
ATOM	11778	N9	G	A	570	166.070	114.145	-28.401	1.00	56.85	A16S
ATOM	11779	C4	G	A	570	166.832	114.861	-27.503	1.00	56.85	A16S
ATOM	11780	N3	G	A	570	168.176	114.889	-27.443	1.00	56.85	A16S
ATOM	11781	C2	G	A	570	168.610	115.681	-26.477	1.00	56.85	A16S
ATOM	11782	N2	G	A	570	169.923	115.838	-26.283	1.00	56.85	A16S
ATOM	11783	N1	G	A	570	167.792	116.378	-25.634	1.00	56.85	A16S
ATOM	11784	C6	G	A	570	166.410	116.355	-25.676	1.00	56.85	A16S
ATOM	11785	O6	G	A	570	165.766	117.013	-24.867	1.00	56.85	A16S
ATOM	11786	C5	G	A	570	165.931	115.524	-26.708	1.00	56.85	A16S
ATOM	11787	N7	G	A	570	164.634	115.240	-27.094	1.00	56.85	A16S
ATOM	11788	C8	G	A	570	164.764	114.419	-28.095	1.00	56.85	A16S
ATOM	11789	C2*	G	A	570	167.597	112.239	-29.076	1.00	34.76	A16S
ATOM	11790	O2*	G	A	570	168.549	112.124	-30.116	1.00	34.76	A16S
ATOM	11791	C3*	G	A	570	166.768	110.981	-28.828	1.00	34.76	A16S
ATOM	11792	O3*	G	A	570	167.486	109.809	-29.196	1.00	34.76	A16S
ATOM	11793	P	U	A	571	167.872	108.720	-28.089	1.00	31.91	A16S
ATOM	11794	O1P	U	A	571	168.408	107.504	-28.732	1.00	51.19	A16S
ATOM	11795	O2P	U	A	571	166.754	108.591	-27.115	1.00	51.19	A16S
ATOM	11796	O5*	U	A	571	169.090	109.429	-27.368	1.00	31.91	A16S
ATOM	11797	C5*	U	A	571	170.331	109.639	-28.052	1.00	31.91	A16S
ATOM	11798	C4*	U	A	571	171.295	110.368	-27.152	1.00	31.91	A16S
ATOM	11799	O4*	U	A	571	170.892	111.756	-27.065	1.00	31.91	A16S
ATOM	11800	C1*	U	A	571	171.116	112.235	-25.753	1.00	31.91	A16S
ATOM	11801	N1	U	A	571	169.809	112.633	-25.198	1.00	51.19	A16S
ATOM	11802	C6	U	A	571	168.648	112.102	-25.700	1.00	51.19	A16S
ATOM	11803	C2	U	A	571	169.775	113.572	-24.180	1.00	51.19	A16S
ATOM	11804	O2	U	A	571	170.772	114.048	-23.680	1.00	51.19	A16S
ATOM	11805	N3	U	A	571	168.524	113.936	-23.773	1.00	51.19	A16S
ATOM	11806	C4	U	A	571	167.327	113.468	-24.265	1.00	51.19	A16S
ATOM	11807	O4	U	A	571	166.273	113.982	-23.884	1.00	51.19	A16S
ATOM	11808	C5	U	A	571	167.447	112.477	-25.285	1.00	51.19	A16S
ATOM	11809	C2*	U	A	571	171.836	111.123	-24.983	1.00	31.91	A16S
ATOM	11810	O2*	U	A	571	173.236	111.258	-25.144	1.00	31.91	A16S
ATOM	11811	C3*	U	A	571	171.361	109.881	-25.712	1.00	31.91	A16S
ATOM	11812	O3*	U	A	571	172.282	108.818	-25.542	1.00	31.91	A16S
ATOM	11813	P	A	A	572	171.768	107.399	-24.977	1.00	48.84	A16S
ATOM	11814	O1P	A	A	572	172.926	106.429	-25.142	1.00	60.90	A16S
ATOM	11815	O2P	A	A	572	170.423	107.070	-25.552	1.00	60.90	A16S
ATOM	11816	O5*	A	A	572	171.577	107.626	-23.418	1.00	48.84	A16S
ATOM	11817	C5*	A	A	572	170.423	108.295	-22.886	1.00	48.84	A16S
ATOM	11818	C4*	A	A	572	170.176	107.809	-21.481	1.00	48.84	A16S
ATOM	11819	O4*	A	A	572	169.465	108.777	-20.690	1.00	48.84	A16S
ATOM	11820	C1*	A	A	572	168.837	108.114	-19.616	1.00	48.84	A16S
ATOM	11821	N9	A	A	572	167.548	108.760	-19.415	1.00	60.90	A16S
ATOM	11822	C4	A	A	572	167.319	109.800	-18.547	1.00	60.90	A16S
ATOM	11823	N3	A	A	572	168.183	110.340	-17.677	1.00	60.90	A16S
ATOM	11824	C2	A	A	572	167.637	111.389	-17.070	1.00	60.90	A16S
ATOM	11825	N1	A	A	572	166.429	111.926	-17.227	1.00	60.90	A16S
ATOM	11826	C6	A	A	572	165.591	111.364	-18.109	1.00	60.90	A16S
ATOM	11827	N6	A	A	572	164.401	111.923	-18.292	1.00	60.90	A16S
ATOM	11828	C5	A	A	572	166.037	110.226	-18.802	1.00	60.90	A16S
ATOM	11829	N7	A	A	572	165.437	109.419	-19.756	1.00	60.90	A16S
ATOM	11830	C8	A	A	572	166.371	108.557	-20.073	1.00	60.90	A16S
ATOM	11831	C2*	A	A	572	168.871	106.605	-19.897	1.00	48.84	A16S
ATOM	11832	O2*	A	A	572	169.766	105.996	-18.992	1.00	48.84	A16S
ATOM	11833	C3*	A	A	572	169.370	106.541	-21.342	1.00	48.84	A16S
ATOM	11834	O3*	A	A	572	170.248	105.452	-21.549	1.00	48.84	A16S
ATOM	11835	P	A	A	573	169.884	104.345	-22.641	1.00	39.13	A16S
ATOM	11836	O1P	A	A	573	171.144	103.659	-23.008	1.00	55.88	A16S
ATOM	11837	O2P	A	A	573	169.077	105.006	-23.698	1.00	55.88	A16S
ATOM	11838	O5*	A	A	573	168.970	103.347	-21.806	1.00	39.13	A16S
ATOM	11839	C5*	A	A	573	169.210	101.937	-21.797	1.00	39.13	A16S
ATOM	11840	C4*	A	A	573	167.904	101.211	-21.954	1.00	39.13	A16S
ATOM	11841	O4*	A	A	573	167.094	101.373	-20.763	1.00	39.13	A16S
ATOM	11842	C1*	A	A	573	165.744	101.602	-21.129	1.00	39.13	A16S
ATOM	11843	N9	A	A	573	165.335	102.888	-20.560	1.00	55.88	A16S
ATOM	11844	C4	A	A	573	164.071	103.270	-20.196	1.00	55.88	A16S
ATOM	11845	N3	A	A	573	162.942	102.564	-20.317	1.00	55.88	A16S
ATOM	11846	C2	A	A	573	161.916	103.242	-19.828	1.00	55.88	A16S
ATOM	11847	N1	A	A	573	161.892	104.451	-19.266	1.00	55.88	A16S
ATOM	11848	C6	A	A	573	163.050	105.129	-19.154	1.00	55.88	A16S
ATOM	11849	N6	A	A	573	163.037	106.323	-18.562	1.00	55.88	A16S
ATOM	11850	C5	A	A	573	164.201	104.529	-19.654	1.00	55.88	A16S
ATOM	11851	N7	A	A	573	165.513	104.952	-19.710	1.00	55.88	A16S



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ATOM	11852	C8	A	A	573	166.144	103.948	-20.256	1.00	55.88	A16S
ATOM	11853	C2*	A	A	573	165.638	101.499	-22.655	1.00	39.13	A16S
ATOM	11854	O2*	A	A	573	165.154	100.209	-22.964	1.00	39.13	A16S
ATOM	11855	C3*	A	A	573	167.077	101.773	-23.088	1.00	39.13	A16S
ATOM	11856	O3*	A	A	573	167.488	101.117	-24.268	1.00	39.13	A16S
ATOM	11857	P	A	A	574	167.492	101.904	-25.664	1.00	40.04	A16S
ATOM	11858	O1P	A	A	574	168.149	100.990	-26.630	1.00	53.68	A16S
ATOM	11859	O2P	A	A	574	167.978	103.304	-25.525	1.00	53.68	A16S
ATOM	11860	O5*	A	A	574	165.955	101.932	-26.049	1.00	40.04	A16S
ATOM	11861	C5*	A	A	574	165.212	100.710	-26.171	1.00	40.04	A16S
ATOM	11862	C4*	A	A	574	163.767	101.036	-26.331	1.00	40.04	A16S
ATOM	11863	O4*	A	A	574	163.297	101.647	-25.113	1.00	40.04	A16S
ATOM	11864	C1*	A	A	574	162.462	102.737	-25.425	1.00	40.04	A16S
ATOM	11865	N9	A	A	574	162.987	103.898	-24.721	1.00	53.68	A16S
ATOM	11866	C4	A	A	574	162.387	104.518	-23.656	1.00	53.68	A16S
ATOM	11867	N3	A	A	574	161.219	104.200	-23.078	1.00	53.68	A16S
ATOM	11868	C2	A	A	574	160.958	105.029	-22.079	1.00	53.68	A16S
ATOM	11869	N1	A	A	574	161.673	106.051	-21.629	1.00	53.68	A16S
ATOM	11870	C6	A	A	574	162.841	106.333	-22.230	1.00	53.68	A16S
ATOM	11871	N6	A	A	574	163.558	107.351	-21.786	1.00	53.68	A16S
ATOM	11872	C5	A	A	574	163.234	105.541	-23.292	1.00	53.68	A16S
ATOM	11873	N7	A	A	574	164.354	105.570	-24.108	1.00	53.68	A16S
ATOM	11874	C8	A	A	574	164.156	104.579	-24.942	1.00	53.68	A16S
ATOM	11875	C2*	A	A	574	162.363	102.861	-26.950	1.00	40.04	A16S
ATOM	11876	O2*	A	A	574	161.169	102.271	-27.418	1.00	40.04	A16S
ATOM	11877	C3*	A	A	574	163.571	102.069	-27.417	1.00	40.04	A16S
ATOM	11878	O3*	A	A	574	163.301	101.371	-28.618	1.00	40.04	A16S
ATOM	11879	P	G	A	575	164.107	101.740	-29.947	1.00	49.91	A16S
ATOM	11880	O1P	G	A	575	163.492	100.974	-31.067	1.00	58.82	A16S
ATOM	11881	O2P	G	A	575	165.556	101.593	-29.663	1.00	58.82	A16S
ATOM	11882	O5*	G	A	575	163.775	103.283	-30.143	1.00	49.91	A16S
ATOM	11883	C5*	G	A	575	162.443	103.693	-30.502	1.00	49.91	A16S
ATOM	11884	C4*	G	A	575	162.241	103.484	-31.973	1.00	49.91	A16S
ATOM	11885	O4*	G	A	575	160.844	103.475	-32.318	1.00	49.91	A16S
ATOM	11886	C1*	G	A	575	160.537	104.547	-33.185	1.00	49.91	A16S
ATOM	11887	N9	G	A	575	159.391	105.215	-32.578	1.00	58.82	A16S
ATOM	11888	C4	G	A	575	158.071	105.036	-32.911	1.00	58.82	A16S
ATOM	11889	N3	G	A	575	157.606	104.294	-33.932	1.00	58.82	A16S
ATOM	11890	C2	G	A	575	156.278	104.256	-33.956	1.00	58.82	A16S
ATOM	11891	N2	G	A	575	155.638	103.583	-34.921	1.00	58.82	A16S
ATOM	11892	N1	G	A	575	155.474	104.879	-33.046	1.00	58.82	A16S
ATOM	11893	C6	G	A	575	155.924	105.654	-31.990	1.00	58.82	A16S
ATOM	11894	O6	G	A	575	155.099	106.182	-31.227	1.00	58.82	A16S
ATOM	11895	C5	G	A	575	157.358	105.721	-31.958	1.00	58.82	A16S
ATOM	11896	N7	G	A	575	158.212	106.374	-31.084	1.00	58.82	A16S
ATOM	11897	C8	G	A	575	159.405	106.064	-31.504	1.00	58.82	A16S
ATOM	11898	C2*	G	A	575	161.782	105.424	-33.324	1.00	49.91	A16S
ATOM	11899	O2*	G	A	575	161.935	105.938	-34.631	1.00	49.91	A16S
ATOM	11900	C3*	G	A	575	162.911	104.503	-32.854	1.00	49.91	A16S
ATOM	11901	O3*	G	A	575	163.883	103.874	-33.711	1.00	49.91	A16S
ATOM	11902	P	G	A	576	163.457	103.031	-35.014	1.00	41.28	A16S
ATOM	11903	O1P	G	A	576	164.649	102.162	-35.186	1.00	50.29	A16S
ATOM	11904	O2P	G	A	576	163.006	103.923	-36.143	1.00	50.29	A16S
ATOM	11905	O5*	G	A	576	162.261	102.092	-34.546	1.00	41.28	A16S
ATOM	11906	C5*	G	A	576	162.514	100.791	-34.031	1.00	41.28	A16S
ATOM	11907	C4*	G	A	576	162.083	99.735	-35.023	1.00	41.28	A16S
ATOM	11908	O4*	G	A	576	160.647	99.513	-34.975	1.00	41.28	A16S
ATOM	11909	C1*	G	A	576	160.154	99.418	-36.288	1.00	41.28	A16S
ATOM	11910	N9	G	A	576	158.774	99.894	-36.317	1.00	50.29	A16S
ATOM	11911	C4	G	A	576	157.677	99.158	-36.684	1.00	50.29	A16S
ATOM	11912	N3	G	A	576	157.676	97.854	-37.008	1.00	50.29	A16S
ATOM	11913	C2	G	A	576	156.476	97.442	-37.381	1.00	50.29	A16S
ATOM	11914	N2	G	A	576	156.292	96.158	-37.727	1.00	50.29	A16S
ATOM	11915	N1	G	A	576	155.372	98.254	-37.445	1.00	50.29	A16S
ATOM	11916	C6	G	A	576	155.360	99.601	-37.134	1.00	50.29	A16S
ATOM	11917	O6	G	A	576	154.327	100.253	-37.289	1.00	50.29	A16S
ATOM	11918	C5	G	A	576	156.627	100.045	-36.696	1.00	50.29	A16S
ATOM	11919	N7	G	A	576	157.039	101.296	-36.271	1.00	50.29	A16S
ATOM	11920	C8	G	A	576	158.316	101.158	-36.047	1.00	50.29	A16S
ATOM	11921	C2*	G	A	576	161.126	100.228	-37.151	1.00	41.28	A16S
ATOM	11922	O2*	G	A	576	161.052	99.792	-38.494	1.00	41.28	A16S
ATOM	11923	C3*	G	A	576	162.465	99.904	-36.492	1.00	41.28	A16S
ATOM	11924	O3*	G	A	576	162.862	98.625	-36.971	1.00	41.28	A16S
ATOM	11925	P	G	A	577	164.253	98.440	-37.746	1.00	55.77	A16S
ATOM	11926	O1P	G	A	577	164.117	97.153	-38.490	1.00	42.30	A16S
ATOM	11927	O2P	G	A	577	165.349	98.607	-36.766	1.00	42.30	A16S
ATOM	11928	O5*	G	A	577	164.282	99.624	-38.809	1.00	55.77	A16S



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ATOM	11929	C5*	G	A	577	165.268	100.661	-38.741	1.00	55.77	A16S
ATOM	11930	C4*	G	A	577	165.510	101.224	-40.117	1.00	55.77	A16S
ATOM	11931	O4*	G	A	577	166.177	100.229	-40.928	1.00	55.77	A16S
ATOM	11932	C1*	G	A	577	165.714	100.311	-42.257	1.00	55.77	A16S
ATOM	11933	N9	G	A	577	165.124	99.031	-42.607	1.00	42.30	A16S
ATOM	11934	C4	G	A	577	164.543	98.735	-43.804	1.00	42.30	A16S
ATOM	11935	N3	G	A	577	164.422	99.579	-44.839	1.00	42.30	A16S
ATOM	11936	C2	G	A	577	163.800	99.029	-45.849	1.00	42.30	A16S
ATOM	11937	N2	G	A	577	163.588	99.750	-46.956	1.00	42.30	A16S
ATOM	11938	N1	G	A	577	163.339	97.740	-45.849	1.00	42.30	A16S
ATOM	11939	C6	G	A	577	163.461	96.846	-44.791	1.00	42.30	A16S
ATOM	11940	O6	G	A	577	163.021	95.693	-44.895	1.00	42.30	A16S
ATOM	11941	C5	G	A	577	164.119	97.435	-43.695	1.00	42.30	A16S
ATOM	11942	N7	G	A	577	164.431	96.917	-42.443	1.00	42.30	A16S
ATOM	11943	C8	G	A	577	165.027	97.903	-41.830	1.00	42.30	A16S
ATOM	11944	C2*	G	A	577	164.682	101.431	-42.343	1.00	55.77	A16S
ATOM	11945	O2*	G	A	577	165.284	102.584	-42.885	1.00	55.77	A16S
ATOM	11946	C3*	G	A	577	164.249	101.559	-40.892	1.00	55.77	A16S
ATOM	11947	O3*	G	A	577	163.782	102.851	-40.573	1.00	55.77	A16S
ATOM	11948	P	C	A	578	162.207	103.128	-40.547	1.00	45.63	A16S
ATOM	11949	O1P	C	A	578	162.090	104.480	-39.942	1.00	41.36	A16S
ATOM	11950	O2P	C	A	578	161.486	101.971	-39.939	1.00	41.36	A16S
ATOM	11951	O5*	C	A	578	161.807	103.182	-42.086	1.00	45.63	A16S
ATOM	11952	C5*	C	A	578	162.240	104.284	-42.894	1.00	45.63	A16S
ATOM	11953	C4*	C	A	578	161.772	104.127	-44.321	1.00	45.63	A16S
ATOM	11954	O4*	C	A	578	162.385	102.960	-44.917	1.00	45.63	A16S
ATOM	11955	C1*	C	A	578	161.511	102.430	-45.884	1.00	45.63	A16S
ATOM	11956	N1	C	A	578	161.169	101.053	-45.515	1.00	41.36	A16S
ATOM	11957	C6	C	A	578	161.396	100.578	-44.252	1.00	41.36	A16S
ATOM	11958	C2	C	A	578	160.596	100.214	-46.498	1.00	41.36	A16S
ATOM	11959	O2	C	A	578	160.394	100.664	-47.623	1.00	41.36	A16S
ATOM	11960	N3	C	A	578	160.279	98.945	-46.188	1.00	41.36	A16S
ATOM	11961	C4	C	A	578	160.500	98.491	-44.957	1.00	41.36	A16S
ATOM	11962	N4	C	A	578	160.152	97.233	-44.695	1.00	41.36	A16S
ATOM	11963	C5	C	A	578	161.084	99.314	-43.933	1.00	41.36	A16S
ATOM	11964	C2*	C	A	578	160.274	103.321	-45.945	1.00	45.63	A16S
ATOM	11965	O2*	C	A	578	160.494	104.300	-46.933	1.00	45.63	A16S
ATOM	11966	C3*	C	A	578	160.280	103.960	-44.571	1.00	45.63	A16S
ATOM	11967	O3*	C	A	578	159.608	105.215	-44.623	1.00	45.63	A16S
ATOM	11968	P	G	A	579	157.999	105.267	-44.572	1.00	51.55	A16S
ATOM	11969	O1P	G	A	579	157.643	106.704	-44.732	1.00	56.55	A16S
ATOM	11970	O2P	G	A	579	157.494	104.504	-43.386	1.00	56.55	A16S
ATOM	11971	O5*	G	A	579	157.497	104.468	-45.857	1.00	51.55	A16S
ATOM	11972	C5*	G	A	579	157.506	105.087	-47.143	1.00	51.55	A16S
ATOM	11973	C4*	G	A	579	157.235	104.073	-48.230	1.00	51.55	A16S
ATOM	11974	O4*	G	A	579	157.922	102.839	-47.928	1.00	51.55	A16S
ATOM	11975	C1*	G	A	579	157.258	101.763	-48.555	1.00	51.55	A16S
ATOM	11976	N9	G	A	579	157.020	100.727	-47.565	1.00	56.55	A16S
ATOM	11977	C4	G	A	579	156.559	99.466	-47.807	1.00	56.55	A16S
ATOM	11978	N3	G	A	579	156.263	98.954	-49.014	1.00	56.55	A16S
ATOM	11979	C2	G	A	579	155.805	97.712	-48.921	1.00	56.55	A16S
ATOM	11980	N2	G	A	579	155.468	97.033	-50.037	1.00	56.55	A16S
ATOM	11981	N1	G	A	579	155.643	97.043	-47.731	1.00	56.55	A16S
ATOM	11982	C6	G	A	579	155.929	97.569	-46.475	1.00	56.55	A16S
ATOM	11983	O6	G	A	579	155.706	96.902	-45.450	1.00	56.55	A16S
ATOM	11984	C5	G	A	579	156.441	98.876	-46.568	1.00	56.55	A16S
ATOM	11985	N7	G	A	579	156.853	99.740	-45.570	1.00	56.55	A16S
ATOM	11986	C8	G	A	579	157.192	100.824	-46.209	1.00	56.55	A16S
ATOM	11987	C2*	G	A	579	155.980	102.308	-49.189	1.00	51.55	A16S
ATOM	11988	O2*	G	A	579	156.239	102.540	-50.555	1.00	51.55	A16S
ATOM	11989	C3*	G	A	579	155.801	103.637	-48.468	1.00	51.55	A16S
ATOM	11990	O3*	G	A	579	155.161	104.555	-49.348	1.00	51.55	A16S
ATOM	11991	P	U	A	580	153.561	104.701	-49.322	1.00	52.57	A16S
ATOM	11992	O1P	U	A	580	153.217	105.751	-50.317	1.00	60.58	A16S
ATOM	11993	O2P	U	A	580	153.129	104.861	-47.904	1.00	60.58	A16S
ATOM	11994	O5*	U	A	580	153.018	103.287	-49.824	1.00	52.57	A16S
ATOM	11995	C5*	U	A	580	152.796	103.019	-51.221	1.00	52.57	A16S
ATOM	11996	C4*	U	A	580	152.281	101.608	-51.402	1.00	52.57	A16S
ATOM	11997	O4*	U	A	580	153.228	100.680	-50.807	1.00	52.57	A16S
ATOM	11998	C1*	U	A	580	152.536	99.567	-50.268	1.00	52.57	A16S
ATOM	11999	N1	U	A	580	152.802	99.495	-48.820	1.00	60.58	A16S
ATOM	12000	C6	U	A	580	153.359	100.543	-48.128	1.00	60.58	A16S
ATOM	12001	C2	U	A	580	152.456	98.319	-48.163	1.00	60.58	A16S
ATOM	12002	O2	U	A	580	151.969	97.361	-48.731	1.00	60.58	A16S
ATOM	12003	N3	U	A	580	152.700	98.307	-46.815	1.00	60.58	A16S
ATOM	12004	C4	U	A	580	153.247	99.313	-46.063	1.00	60.58	A16S
ATOM	12005	O4	U	A	580	153.434	99.130	-44.854	1.00	60.58	A16S



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ATOM	12006	C5	U	A	580	153.586	100.494	-46.808	1.00	60.58	A16S
ATOM	12007	C2*	U	A	580	151.052	99.753	-50.578	1.00	52.57	A16S
ATOM	12008	O2*	U	A	580	150.730	99.092	-51.788	1.00	52.57	A16S
ATOM	12009	C3*	U	A	580	150.963	101.261	-50.723	1.00	52.57	A16S
ATOM	12010	O3*	U	A	580	149.836	101.613	-51.500	1.00	52.57	A16S
ATOM	12011	P	G	A	581	148.514	102.137	-50.763	1.00	55.49	A16S
ATOM	12012	O1P	G	A	581	147.554	102.616	-51.809	1.00	59.55	A16S
ATOM	12013	O2P	G	A	581	148.971	103.077	-49.709	1.00	59.55	A16S
ATOM	12014	O5*	G	A	581	147.948	100.849	-50.007	1.00	55.49	A16S
ATOM	12015	C5*	G	A	581	147.274	99.795	-50.717	1.00	55.49	A16S
ATOM	12016	C4*	G	A	581	147.268	98.526	-49.891	1.00	55.49	A16S
ATOM	12017	O4*	G	A	581	148.603	98.360	-49.360	1.00	55.49	A16S
ATOM	12018	C1*	G	A	581	148.541	97.762	-48.082	1.00	55.49	A16S
ATOM	12019	N9	G	A	581	149.117	98.679	-47.107	1.00	59.55	A16S
ATOM	12020	C4	G	A	581	149.568	98.327	-45.868	1.00	59.55	A16S
ATOM	12021	N3	G	A	581	149.542	97.087	-45.349	1.00	59.55	A16S
ATOM	12022	C2	G	A	581	150.006	97.060	-44.121	1.00	59.55	A16S
ATOM	12023	N2	G	A	581	150.002	95.904	-43.442	1.00	59.55	A16S
ATOM	12024	N1	G	A	581	150.495	98.160	-43.467	1.00	59.55	A16S
ATOM	12025	C6	G	A	581	150.546	99.442	-43.994	1.00	59.55	A16S
ATOM	12026	O6	G	A	581	151.027	100.357	-43.332	1.00	59.55	A16S
ATOM	12027	C5	G	A	581	150.014	99.492	-45.293	1.00	59.55	A16S
ATOM	12028	N7	G	A	581	149.836	100.569	-46.153	1.00	59.55	A16S
ATOM	12029	C8	G	A	581	149.307	100.038	-47.222	1.00	59.55	A16S
ATOM	12030	C2*	G	A	581	147.082	97.462	-47.766	1.00	55.49	A16S
ATOM	12031	O2*	G	A	581	146.848	96.105	-48.072	1.00	55.49	A16S
ATOM	12032	C3*	G	A	581	146.364	98.467	-48.662	1.00	55.49	A16S
ATOM	12033	O3*	G	A	581	145.036	98.039	-48.978	1.00	55.49	A16S
ATOM	12034	P	U	A	582	143.872	98.139	-47.863	1.00	58.80	A16S
ATOM	12035	O1P	U	A	582	142.594	98.244	-48.594	1.00	55.54	A16S
ATOM	12036	O2P	U	A	582	144.237	99.188	-46.873	1.00	55.54	A16S
ATOM	12037	O5*	U	A	582	143.885	96.717	-47.140	1.00	58.80	A16S
ATOM	12038	C5*	U	A	582	143.668	95.512	-47.902	1.00	58.80	A16S
ATOM	12039	C4*	U	A	582	143.550	94.299	-46.993	1.00	58.80	A16S
ATOM	12040	O4*	U	A	582	144.841	93.853	-46.502	1.00	58.80	A16S
ATOM	12041	C1*	U	A	582	144.695	93.304	-45.206	1.00	58.80	A16S
ATOM	12042	N1	U	A	582	145.480	94.116	-44.261	1.00	55.54	A16S
ATOM	12043	C6	U	A	582	146.057	95.297	-44.638	1.00	55.54	A16S
ATOM	12044	C2	U	A	582	145.618	93.649	-42.969	1.00	55.54	A16S
ATOM	12045	O2	U	A	582	145.125	92.615	-42.590	1.00	55.54	A16S
ATOM	12046	N3	U	A	582	146.355	94.441	-42.135	1.00	55.54	A16S
ATOM	12047	C4	U	A	582	146.955	95.630	-42.448	1.00	55.54	A16S
ATOM	12048	O4	U	A	582	147.535	96.265	-41.566	1.00	55.54	A16S
ATOM	12049	C5	U	A	582	146.772	96.048	-43.801	1.00	55.54	A16S
ATOM	12050	C2*	U	A	582	143.207	93.329	-44.873	1.00	58.80	A16S
ATOM	12051	O2*	U	A	582	142.623	92.109	-45.270	1.00	58.80	A16S
ATOM	12052	C3*	U	A	582	142.731	94.475	-45.741	1.00	58.80	A16S
ATOM	12053	O3*	U	A	582	141.362	94.411	-45.993	1.00	58.80	A16S
ATOM	12054	P	A	A	583	140.389	95.262	-45.066	1.00	49.14	A16S
ATOM	12055	O1P	A	A	583	139.022	95.135	-45.627	1.00	44.59	A16S
ATOM	12056	O2P	A	A	583	140.991	96.622	-44.880	1.00	44.59	A16S
ATOM	12057	O5*	A	A	583	140.477	94.485	-43.686	1.00	49.14	A16S
ATOM	12058	C5*	A	A	583	140.047	93.134	-43.600	1.00	49.14	A16S
ATOM	12059	C4*	A	A	583	140.311	92.607	-42.226	1.00	49.14	A16S
ATOM	12060	O4*	A	A	583	141.737	92.594	-42.002	1.00	49.14	A16S
ATOM	12061	C1*	A	A	583	142.015	92.973	-40.664	1.00	49.14	A16S
ATOM	12062	N9	A	A	583	142.774	94.222	-40.699	1.00	44.59	A16S
ATOM	12063	C4	A	A	583	143.617	94.712	-39.727	1.00	44.59	A16S
ATOM	12064	N3	A	A	583	143.907	94.162	-38.537	1.00	44.59	A16S
ATOM	12065	C2	A	A	583	144.787	94.911	-37.881	1.00	44.59	A16S
ATOM	12066	N1	A	A	583	145.367	96.055	-38.250	1.00	44.59	A16S
ATOM	12067	C6	A	A	583	145.049	96.575	-39.454	1.00	44.59	A16S
ATOM	12068	N6	A	A	583	145.628	97.710	-39.848	1.00	44.59	A16S
ATOM	12069	C5	A	A	583	144.130	95.889	-40.238	1.00	44.59	A16S
ATOM	12070	N7	A	A	583	143.610	96.152	-41.495	1.00	44.59	A16S
ATOM	12071	C8	A	A	583	142.809	95.138	-41.722	1.00	44.59	A16S
ATOM	12072	C2*	A	A	583	140.679	93.125	-39.949	1.00	49.14	A16S
ATOM	12073	O2*	A	A	583	140.358	91.880	-39.357	1.00	49.14	A16S
ATOM	12074	C3*	A	A	583	139.768	93.477	-41.112	1.00	49.14	A16S
ATOM	12075	O3*	A	A	583	138.410	93.208	-40.859	1.00	49.14	A16S
ATOM	12076	P	G	A	584	137.455	94.396	-40.361	1.00	50.08	A16S
ATOM	12077	O1P	G	A	584	136.234	93.732	-39.829	1.00	51.66	A16S
ATOM	12078	O2P	G	A	584	137.336	95.403	-41.456	1.00	51.66	A16S
ATOM	12079	O5*	G	A	584	138.239	95.020	-39.123	1.00	50.08	A16S
ATOM	12080	C5*	G	A	584	138.257	94.325	-37.869	1.00	50.08	A16S
ATOM	12081	C4*	G	A	584	139.182	95.003	-36.896	1.00	50.08	A16S
ATOM	12082	O4*	G	A	584	140.489	95.134	-37.502	1.00	50.08	A16S



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ATOM	12083	C1*	G	A	584	141.127	96.299	-37.010	1.00	50.08	A16S
ATOM	12084	N9	G	A	584	141.413	97.199	-38.126	1.00	51.66	A16S
ATOM	12085	C4	G	A	584	142.240	98.294	-38.086	1.00	51.66	A16S
ATOM	12086	N3	G	A	584	142.948	98.707	-37.016	1.00	51.66	A16S
ATOM	12087	C2	G	A	584	143.624	99.813	-37.271	1.00	51.66	A16S
ATOM	12088	N2	G	A	584	144.379	100.359	-36.301	1.00	51.66	A16S
ATOM	12089	N1	G	A	584	143.607	100.463	-38.490	1.00	51.66	A16S
ATOM	12090	C6	G	A	584	142.883	100.051	-39.604	1.00	51.66	A16S
ATOM	12091	O6	G	A	584	142.922	100.710	-40.646	1.00	51.66	A16S
ATOM	12092	C5	G	A	584	142.159	98.864	-39.341	1.00	51.66	A16S
ATOM	12093	N7	G	A	584	141.318	98.130	-40.162	1.00	51.66	A16S
ATOM	12094	C8	G	A	584	140.902	97.149	-39.403	1.00	51.66	A16S
ATOM	12095	C2*	G	A	584	140.175	96.941	-36.007	1.00	50.08	A16S
ATOM	12096	O2*	G	A	584	140.450	96.434	-34.717	1.00	50.08	A16S
ATOM	12097	C3*	G	A	584	138.838	96.422	-36.489	1.00	50.08	A16S
ATOM	12098	O3*	G	A	584	137.883	96.486	-35.452	1.00	50.08	A16S
ATOM	12099	P	G	A	585	137.014	97.828	-35.268	1.00	43.40	A16S
ATOM	12100	O1P	G	A	585	136.069	97.553	-34.151	1.00	46.13	A16S
ATOM	12101	O2P	G	A	585	136.487	98.276	-36.591	1.00	46.13	A16S
ATOM	12102	O5*	G	A	585	138.068	98.915	-34.780	1.00	43.40	A16S
ATOM	12103	C5*	G	A	585	138.756	98.748	-33.546	1.00	43.40	A16S
ATOM	12104	C4*	G	A	585	139.640	99.934	-33.290	1.00	43.40	A16S
ATOM	12105	O4*	G	A	585	140.730	99.962	-34.242	1.00	43.40	A16S
ATOM	12106	C1*	G	A	585	141.021	101.296	-34.605	1.00	43.40	A16S
ATOM	12107	N9	G	A	585	140.760	101.426	-36.036	1.00	46.13	A16S
ATOM	12108	C4	G	A	585	141.280	102.373	-36.886	1.00	46.13	A16S
ATOM	12109	N3	G	A	585	142.133	103.364	-36.547	1.00	46.13	A16S
ATOM	12110	C2	G	A	585	142.459	104.118	-37.589	1.00	46.13	A16S
ATOM	12111	N2	G	A	585	143.322	105.140	-37.435	1.00	46.13	A16S
ATOM	12112	N1	G	A	585	141.972	103.920	-38.857	1.00	46.13	A16S
ATOM	12113	C6	G	A	585	141.106	102.897	-39.231	1.00	46.13	A16S
ATOM	12114	O6	G	A	585	140.753	102.787	-40.413	1.00	46.13	A16S
ATOM	12115	C5	G	A	585	140.752	102.081	-38.126	1.00	46.13	A16S
ATOM	12116	N7	G	A	585	139.916	100.975	-38.058	1.00	46.13	A16S
ATOM	12117	C8	G	A	585	139.950	100.622	-36.802	1.00	46.13	A16S
ATOM	12118	C2*	G	A	585	140.125	102.192	-33.753	1.00	43.40	A16S
ATOM	12119	O2*	G	A	585	140.779	102.508	-32.539	1.00	43.40	A16S
ATOM	12120	C3*	G	A	585	138.960	101.266	-33.475	1.00	43.40	A16S
ATOM	12121	O3*	G	A	585	138.259	101.637	-32.322	1.00	43.40	A16S
ATOM	12122	P	C	A	586	136.870	102.412	-32.483	1.00	47.03	A16S
ATOM	12123	O1P	C	A	586	136.405	102.760	-31.097	1.00	40.62	A16S
ATOM	12124	O2P	C	A	586	135.992	101.608	-33.391	1.00	40.62	A16S
ATOM	12125	O5*	C	A	586	137.297	103.763	-33.210	1.00	47.03	A16S
ATOM	12126	C5*	C	A	586	138.050	104.730	-32.478	1.00	47.03	A16S
ATOM	12127	C4*	C	A	586	138.516	105.835	-33.369	1.00	47.03	A16S
ATOM	12128	O4*	C	A	586	139.452	105.318	-34.340	1.00	47.03	A16S
ATOM	12129	C1*	C	A	586	139.467	106.184	-35.455	1.00	47.03	A16S
ATOM	12130	N1	C	A	586	139.142	105.453	-36.670	1.00	40.62	A16S
ATOM	12131	C6	C	A	586	138.580	104.211	-36.639	1.00	40.62	A16S
ATOM	12132	C2	C	A	586	139.374	106.096	-37.886	1.00	40.62	A16S
ATOM	12133	O2	C	A	586	139.912	107.213	-37.876	1.00	40.62	A16S
ATOM	12134	N3	C	A	586	138.996	105.501	-39.031	1.00	40.62	A16S
ATOM	12135	C4	C	A	586	138.391	104.316	-38.991	1.00	40.62	A16S
ATOM	12136	N4	C	A	586	137.968	103.799	-40.140	1.00	40.62	A16S
ATOM	12137	C5	C	A	586	138.181	103.616	-37.767	1.00	40.62	A16S
ATOM	12138	C2*	C	A	586	138.358	107.217	-35.269	1.00	47.03	A16S
ATOM	12139	O2*	C	A	586	138.963	108.437	-34.903	1.00	47.03	A16S
ATOM	12140	C3*	C	A	586	137.484	106.563	-34.206	1.00	47.03	A16S
ATOM	12141	O3*	C	A	586	136.773	107.545	-33.469	1.00	47.03	A16S
ATOM	12142	P	G	A	587	135.340	108.056	-33.998	1.00	50.53	A16S
ATOM	12143	O1P	G	A	587	134.829	109.103	-33.076	1.00	58.34	A16S
ATOM	12144	O2P	G	A	587	134.504	106.867	-34.297	1.00	58.34	A16S
ATOM	12145	O5*	G	A	587	135.652	108.782	-35.373	1.00	50.53	A16S
ATOM	12146	C5*	G	A	587	136.467	109.949	-35.403	1.00	50.53	A16S
ATOM	12147	C4*	G	A	587	136.308	110.654	-36.720	1.00	50.53	A16S
ATOM	12148	O4*	G	A	587	136.761	109.781	-37.798	1.00	50.53	A16S
ATOM	12149	C1*	G	A	587	135.781	109.740	-38.808	1.00	50.53	A16S
ATOM	12150	N9	G	A	587	135.741	108.405	-39.392	1.00	58.34	A16S
ATOM	12151	C4	G	A	587	135.697	108.102	-40.739	1.00	58.34	A16S
ATOM	12152	N3	G	A	587	135.766	108.986	-41.759	1.00	58.34	A16S
ATOM	12153	C2	G	A	587	135.645	108.390	-42.938	1.00	58.34	A16S
ATOM	12154	N2	G	A	587	135.679	109.114	-44.074	1.00	58.34	A16S
ATOM	12155	N1	G	A	587	135.477	107.044	-43.096	1.00	58.34	A16S
ATOM	12156	C6	G	A	587	135.400	106.123	-42.066	1.00	58.34	A16S
ATOM	12157	O6	G	A	587	135.229	104.936	-42.327	1.00	58.34	A16S
ATOM	12158	C5	G	A	587	135.533	106.737	-40.801	1.00	58.34	A16S
ATOM	12159	N7	G	A	587	135.527	106.183	-39.528	1.00	58.34	A16S



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ATOM	12160	C8	G	A	587	135.669	107.206	-38.726	1.00	58.34	A16S
ATOM	12161	C2*	G	A	587	134.455	110.081	-38.125	1.00	50.53	A16S
ATOM	12162	O2*	G	A	587	133.528	110.584	-39.078	1.00	50.53	A16S
ATOM	12163	C3*	G	A	587	134.889	111.100	-37.072	1.00	50.53	A16S
ATOM	12164	O3*	G	A	587	134.926	112.397	-37.655	1.00	50.53	A16S
ATOM	12165	P	G	A	588	133.633	113.336	-37.591	1.00	58.02	A16S
ATOM	12166	O1P	G	A	588	133.661	113.938	-36.241	1.00	66.93	A16S
ATOM	12167	O2P	G	A	588	132.425	112.601	-38.040	1.00	66.93	A16S
ATOM	12168	O5*	G	A	588	133.935	114.446	-38.685	1.00	58.02	A16S
ATOM	12169	C5*	G	A	588	135.029	115.366	-38.509	1.00	58.02	A16S
ATOM	12170	C4*	G	A	588	134.852	116.580	-39.395	1.00	58.02	A16S
ATOM	12171	O4*	G	A	588	135.074	116.228	-40.781	1.00	58.02	A16S
ATOM	12172	C1*	G	A	588	134.236	117.011	-41.603	1.00	58.02	A16S
ATOM	12173	N9	G	A	588	133.459	116.118	-42.449	1.00	66.93	A16S
ATOM	12174	C4	G	A	588	132.715	116.483	-43.539	1.00	66.93	A16S
ATOM	12175	N3	G	A	588	132.540	117.741	-43.989	1.00	66.93	A16S
ATOM	12176	C2	G	A	588	131.756	117.778	-45.048	1.00	66.93	A16S
ATOM	12177	N2	G	A	588	131.442	118.956	-45.597	1.00	66.93	A16S
ATOM	12178	N1	G	A	588	131.215	116.665	-45.636	1.00	66.93	A16S
ATOM	12179	C6	G	A	588	131.394	115.359	-45.195	1.00	66.93	A16S
ATOM	12180	O6	G	A	588	130.862	114.419	-45.805	1.00	66.93	A16S
ATOM	12181	C5	G	A	588	132.208	115.309	-44.046	1.00	66.93	A16S
ATOM	12182	N7	G	A	588	132.610	114.228	-43.278	1.00	66.93	A16S
ATOM	12183	C8	G	A	588	133.344	114.756	-42.338	1.00	66.93	A16S
ATOM	12184	C2*	G	A	588	133.402	117.928	-40.708	1.00	58.02	A16S
ATOM	12185	O2*	G	A	588	134.042	119.181	-40.609	1.00	58.02	A16S
ATOM	12186	C3*	G	A	588	133.471	117.212	-39.373	1.00	58.02	A16S
ATOM	12187	O3*	G	A	588	133.377	118.145	-38.321	1.00	58.02	A16S
ATOM	12188	P	C	A	589	131.957	118.438	-37.664	1.00	60.25	A16S
ATOM	12189	O1P	C	A	589	132.239	119.376	-36.540	1.00	49.04	A16S
ATOM	12190	O2P	C	A	589	131.291	117.139	-37.387	1.00	49.04	A16S
ATOM	12191	O5*	C	A	589	131.148	119.158	-38.836	1.00	60.25	A16S
ATOM	12192	C5*	C	A	589	131.236	120.581	-39.009	1.00	60.25	A16S
ATOM	12193	C4*	C	A	589	130.179	121.079	-39.971	1.00	60.25	A16S
ATOM	12194	O4*	C	A	589	130.475	120.627	-41.312	1.00	60.25	A16S
ATOM	12195	C1*	C	A	589	129.269	120.479	-42.034	1.00	60.25	A16S
ATOM	12196	N1	C	A	589	129.153	119.093	-42.469	1.00	49.04	A16S
ATOM	12197	C6	C	A	589	129.687	118.070	-41.743	1.00	49.04	A16S
ATOM	12198	C2	C	A	589	128.478	118.840	-43.643	1.00	49.04	A16S
ATOM	12199	O2	C	A	589	128.025	119.801	-44.282	1.00	49.04	A16S
ATOM	12200	N3	C	A	589	128.336	117.567	-44.069	1.00	49.04	A16S
ATOM	12201	C4	C	A	589	128.864	116.571	-43.365	1.00	49.04	A16S
ATOM	12202	N4	C	A	589	128.717	115.330	-43.832	1.00	49.04	A16S
ATOM	12203	C5	C	A	589	129.569	116.803	-42.153	1.00	49.04	A16S
ATOM	12204	C2*	C	A	589	128.112	120.855	-41.120	1.00	60.25	A16S
ATOM	12205	O2*	C	A	589	127.760	122.198	-41.378	1.00	60.25	A16S
ATOM	12206	C3*	C	A	589	128.737	120.652	-39.745	1.00	60.25	A16S
ATOM	12207	O3*	C	A	589	128.082	121.442	-38.765	1.00	60.25	A16S
ATOM	12208	P	C	A	590	126.712	120.911	-38.115	1.00	56.35	A16S
ATOM	12209	O1P	C	A	590	126.323	121.941	-37.111	1.00	71.83	A16S
ATOM	12210	O2P	C	A	590	126.890	119.501	-37.685	1.00	71.83	A16S
ATOM	12211	O5*	C	A	590	125.699	120.884	-39.349	1.00	56.35	A16S
ATOM	12212	C5*	C	A	590	125.091	122.093	-39.847	1.00	56.35	A16S
ATOM	12213	C4*	C	A	590	123.913	121.769	-40.754	1.00	56.35	A16S
ATOM	12214	O4*	C	A	590	124.374	121.136	-41.977	1.00	56.35	A16S
ATOM	12215	C1*	C	A	590	123.378	120.261	-42.462	1.00	56.35	A16S
ATOM	12216	N1	C	A	590	123.940	118.913	-42.564	1.00	71.83	A16S
ATOM	12217	C6	C	A	590	125.038	118.546	-41.839	1.00	71.83	A16S
ATOM	12218	C2	C	A	590	123.318	117.999	-43.410	1.00	71.83	A16S
ATOM	12219	O2	C	A	590	122.353	118.379	-44.094	1.00	71.83	A16S
ATOM	12220	N3	C	A	590	123.784	116.732	-43.475	1.00	71.83	A16S
ATOM	12221	C4	C	A	590	124.846	116.376	-42.752	1.00	71.83	A16S
ATOM	12222	N4	C	A	590	125.269	115.112	-42.840	1.00	71.83	A16S
ATOM	12223	C5	C	A	590	125.522	117.300	-41.905	1.00	71.83	A16S
ATOM	12224	C2*	C	A	590	122.192	120.304	-41.501	1.00	56.35	A16S
ATOM	12225	O2*	C	A	590	121.201	121.164	-42.028	1.00	56.35	A16S
ATOM	12226	C3*	C	A	590	122.845	120.823	-40.225	1.00	56.35	A16S
ATOM	12227	O3*	C	A	590	121.911	121.494	-39.394	1.00	56.35	A16S
ATOM	12228	P	U	A	591	121.055	120.655	-38.321	1.00	60.30	A16S
ATOM	12229	O1P	U	A	591	120.261	121.703	-37.618	1.00	71.46	A16S
ATOM	12230	O2P	U	A	591	121.946	119.764	-37.531	1.00	71.46	A16S
ATOM	12231	O5*	U	A	591	120.094	119.747	-39.223	1.00	60.30	A16S
ATOM	12232	C5*	U	A	591	119.114	120.375	-40.062	1.00	60.30	A16S
ATOM	12233	C4*	U	A	591	118.272	119.364	-40.805	1.00	60.30	A16S
ATOM	12234	O4*	U	A	591	119.027	118.754	-41.875	1.00	60.30	A16S
ATOM	12235	C1*	U	A	591	118.529	117.449	-42.118	1.00	60.30	A16S
ATOM	12236	N1	U	A	591	119.599	116.488	-41.841	1.00	71.46	A16S



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ATOM	12237	C6	U	A	591	120.620	116.793	-40.985	1.00	71.46	A16S
ATOM	12238	C2	U	A	591	119.529	115.264	-42.460	1.00	71.46	A16S
ATOM	12239	O2	U	A	591	118.638	114.960	-43.232	1.00	71.46	A16S
ATOM	12240	N3	U	A	591	120.539	114.404	-42.146	1.00	71.46	A16S
ATOM	12241	C4	U	A	591	121.589	114.647	-41.299	1.00	71.46	A16S
ATOM	12242	O4	U	A	591	122.455	113.789	-41.156	1.00	71.46	A16S
ATOM	12243	C5	U	A	591	121.588	115.940	-40.698	1.00	71.46	A16S
ATOM	12244	C2*	U	A	591	117.374	117.201	-41.154	1.00	60.30	A16S
ATOM	12245	O2*	U	A	591	116.143	117.452	-41.794	1.00	60.30	A16S
ATOM	12246	C3*	U	A	591	117.690	118.192	-40.042	1.00	60.30	A16S
ATOM	12247	O3*	U	A	591	116.518	118.509	-39.324	1.00	60.30	A16S
ATOM	12248	P	G	A	592	116.022	117.512	-38.169	1.00	59.72	A16S
ATOM	12249	O1P	G	A	592	114.877	118.189	-37.498	1.00	57.48	A16S
ATOM	12250	O2P	G	A	592	117.230	117.131	-37.364	1.00	57.48	A16S
ATOM	12251	O5*	G	A	592	115.475	116.234	-38.961	1.00	59.72	A16S
ATOM	12252	C5*	G	A	592	114.268	116.315	-39.740	1.00	59.72	A16S
ATOM	12253	C4*	G	A	592	113.949	114.984	-40.375	1.00	59.72	A16S
ATOM	12254	O4*	G	A	592	114.999	114.631	-41.309	1.00	59.72	A16S
ATOM	12255	C1*	G	A	592	115.149	113.217	-41.346	1.00	59.72	A16S
ATOM	12256	N9	G	A	592	116.488	112.872	-40.884	1.00	57.48	A16S
ATOM	12257	C4	G	A	592	117.100	111.650	-41.008	1.00	57.48	A16S
ATOM	12258	N3	G	A	592	116.594	110.574	-41.634	1.00	57.48	A16S
ATOM	12259	C2	G	A	592	117.415	109.541	-41.583	1.00	57.48	A16S
ATOM	12260	N2	G	A	592	117.079	108.400	-42.187	1.00	57.48	A16S
ATOM	12261	N1	G	A	592	118.627	109.549	-40.944	1.00	57.48	A16S
ATOM	12262	C6	G	A	592	119.167	110.639	-40.271	1.00	57.48	A16S
ATOM	12263	O6	G	A	592	120.266	110.531	-39.690	1.00	57.48	A16S
ATOM	12264	C5	G	A	592	118.304	111.775	-40.350	1.00	57.48	A16S
ATOM	12265	N7	G	A	592	118.462	113.062	-39.857	1.00	57.48	A16S
ATOM	12266	C8	G	A	592	117.365	113.677	-40.203	1.00	57.48	A16S
ATOM	12267	C2*	G	A	592	114.117	112.620	-40.395	1.00	59.72	A16S
ATOM	12268	O2*	G	A	592	112.965	112.233	-41.116	1.00	59.72	A16S
ATOM	12269	C3*	G	A	592	113.864	113.784	-39.451	1.00	59.72	A16S
ATOM	12270	O3*	G	A	592	112.613	113.654	-38.826	1.00	59.72	A16S
ATOM	12271	P	G	A	593	112.514	112.881	-37.419	1.00	51.80	A16S
ATOM	12272	O1P	G	A	593	111.153	113.187	-36.911	1.00	60.49	A16S
ATOM	12273	O2P	G	A	593	113.697	113.231	-36.596	1.00	60.49	A16S
ATOM	12274	O5*	G	A	593	112.602	111.326	-37.780	1.00	51.80	A16S
ATOM	12275	C5*	G	A	593	111.609	110.719	-38.626	1.00	51.80	A16S
ATOM	12276	C4*	G	A	593	111.946	109.274	-38.921	1.00	51.80	A16S
ATOM	12277	O4*	G	A	593	113.102	109.164	-39.799	1.00	51.80	A16S
ATOM	12278	C1*	G	A	593	113.816	107.965	-39.510	1.00	51.80	A16S
ATOM	12279	N9	G	A	593	115.159	108.309	-39.041	1.00	60.49	A16S
ATOM	12280	C4	G	A	593	116.227	107.448	-38.909	1.00	60.49	A16S
ATOM	12281	N3	G	A	593	116.239	106.143	-39.247	1.00	60.49	A16S
ATOM	12282	C2	G	A	593	117.415	105.585	-39.010	1.00	60.49	A16S
ATOM	12283	N2	G	A	593	117.620	104.305	-39.337	1.00	60.49	A16S
ATOM	12284	N1	G	A	593	118.483	106.244	-38.451	1.00	60.49	A16S
ATOM	12285	C6	G	A	593	118.495	107.582	-38.086	1.00	60.49	A16S
ATOM	12286	O6	G	A	593	119.518	108.079	-37.583	1.00	60.49	A16S
ATOM	12287	C5	G	A	593	117.246	108.207	-38.366	1.00	60.49	A16S
ATOM	12288	N7	G	A	593	116.839	109.522	-38.186	1.00	60.49	A16S
ATOM	12289	C8	G	A	593	115.602	109.538	-38.606	1.00	60.49	A16S
ATOM	12290	C2*	G	A	593	113.034	107.234	-38.419	1.00	51.80	A16S
ATOM	12291	O2*	G	A	593	112.172	106.298	-39.038	1.00	51.80	A16S
ATOM	12292	C3*	G	A	593	112.294	108.389	-37.743	1.00	51.80	A16S
ATOM	12293	O3*	G	A	593	111.146	107.970	-37.032	1.00	51.80	A16S
ATOM	12294	P	G	A	594	111.266	107.658	-35.464	1.00	60.84	A16S
ATOM	12295	O1P	G	A	594	109.915	107.247	-35.000	1.00	72.34	A16S
ATOM	12296	O2P	G	A	594	111.964	108.790	-34.779	1.00	72.34	A16S
ATOM	12297	O5*	G	A	594	112.223	106.382	-35.415	1.00	60.84	A16S
ATOM	12298	C5*	G	A	594	111.873	105.159	-36.103	1.00	60.84	A16S
ATOM	12299	C4*	G	A	594	112.981	104.132	-35.976	1.00	60.84	A16S
ATOM	12300	O4*	G	A	594	114.165	104.554	-36.704	1.00	60.84	A16S
ATOM	12301	C1*	G	A	594	115.328	104.088	-36.039	1.00	60.84	A16S
ATOM	12302	N9	G	A	594	116.140	105.245	-35.670	1.00	72.34	A16S
ATOM	12303	C4	G	A	594	117.467	105.233	-35.326	1.00	72.34	A16S
ATOM	12304	N3	G	A	594	118.272	104.152	-35.324	1.00	72.34	A16S
ATOM	12305	C2	G	A	594	119.493	104.452	-34.916	1.00	72.34	A16S
ATOM	12306	N2	G	A	594	120.428	103.497	-34.871	1.00	72.34	A16S
ATOM	12307	N1	G	A	594	119.886	105.715	-34.528	1.00	72.34	A16S
ATOM	12308	C6	G	A	594	119.070	106.842	-34.521	1.00	72.34	A16S
ATOM	12309	O6	G	A	594	119.519	107.931	-34.144	1.00	72.34	A16S
ATOM	12310	C5	G	A	594	117.767	106.536	-34.972	1.00	72.34	A16S
ATOM	12311	N7	G	A	594	116.663	107.355	-35.135	1.00	72.34	A16S
ATOM	12312	C8	G	A	594	115.726	106.551	-35.558	1.00	72.34	A16S
ATOM	12313	C2*	G	A	594	114.867	103.286	-34.817	1.00	60.84	A16S



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ATOM	12314	O2*	G	A	594	114.789	101.914	-35.143	1.00	60.84	A16S
ATOM	12315	C3*	G	A	594	113.477	103.848	-34.572	1.00	60.84	A16S
ATOM	12316	O3*	G	A	594	112.657	102.882	-33.956	1.00	60.84	A16S
ATOM	12317	P	G	A	595	112.447	102.925	-32.371	1.00	58.68	A16S
ATOM	12318	O1P	G	A	595	111.783	101.652	-31.984	1.00	61.83	A16S
ATOM	12319	O2P	G	A	595	111.841	104.230	-31.990	1.00	61.83	A16S
ATOM	12320	O5*	G	A	595	113.923	102.904	-31.788	1.00	58.68	A16S
ATOM	12321	C5*	G	A	595	114.729	101.717	-31.837	1.00	58.68	A16S
ATOM	12322	C4*	G	A	595	115.996	101.950	-31.067	1.00	58.68	A16S
ATOM	12323	O4*	G	A	595	116.544	103.193	-31.561	1.00	58.68	A16S
ATOM	12324	C1*	G	A	595	116.662	104.122	-30.512	1.00	58.68	A16S
ATOM	12325	N9	G	A	595	116.182	105.406	-31.005	1.00	61.83	A16S
ATOM	12326	C4	G	A	595	116.884	106.576	-31.062	1.00	61.83	A16S
ATOM	12327	N3	G	A	595	118.178	106.736	-30.746	1.00	61.83	A16S
ATOM	12328	C2	G	A	595	118.558	107.986	-30.875	1.00	61.83	A16S
ATOM	12329	N2	G	A	595	119.821	108.329	-30.625	1.00	61.83	A16S
ATOM	12330	N1	G	A	595	117.730	108.999	-31.264	1.00	61.83	A16S
ATOM	12331	C6	G	A	595	116.392	108.853	-31.594	1.00	61.83	A16S
ATOM	12332	O6	G	A	595	115.722	109.839	-31.930	1.00	61.83	A16S
ATOM	12333	C5	G	A	595	115.980	107.521	-31.482	1.00	61.83	A16S
ATOM	12334	N7	G	A	595	114.749	106.946	-31.739	1.00	61.83	A16S
ATOM	12335	C8	G	A	595	114.918	105.689	-31.456	1.00	61.83	A16S
ATOM	12336	C2*	G	A	595	115.792	103.619	-29.361	1.00	58.68	A16S
ATOM	12337	O2*	G	A	595	116.367	103.972	-28.122	1.00	58.68	A16S
ATOM	12338	C3*	G	A	595	115.825	102.117	-29.561	1.00	58.68	A16S
ATOM	12339	O3*	G	A	595	116.971	101.639	-28.899	1.00	58.68	A16S
ATOM	12340	P	C	A	596	117.110	100.080	-28.590	1.00	56.35	A16S
ATOM	12341	O1P	C	A	596	116.082	99.358	-29.393	1.00	66.46	A16S
ATOM	12342	O2P	C	A	596	117.161	99.897	-27.118	1.00	66.46	A16S
ATOM	12343	O5*	C	A	596	118.534	99.741	-29.213	1.00	56.35	A16S
ATOM	12344	C5*	C	A	596	118.935	98.391	-29.491	1.00	56.35	A16S
ATOM	12345	C4*	C	A	596	120.425	98.345	-29.676	1.00	56.35	A16S
ATOM	12346	O4*	C	A	596	120.776	98.939	-30.952	1.00	56.35	A16S
ATOM	12347	C1*	C	A	596	121.956	99.713	-30.811	1.00	56.35	A16S
ATOM	12348	N1	C	A	596	121.630	101.120	-31.102	1.00	66.46	A16S
ATOM	12349	C6	C	A	596	120.335	101.533	-31.255	1.00	66.46	A16S
ATOM	12350	C2	C	A	596	122.674	102.041	-31.181	1.00	66.46	A16S
ATOM	12351	O2	C	A	596	123.843	101.629	-31.116	1.00	66.46	A16S
ATOM	12352	N3	C	A	596	122.387	103.352	-31.339	1.00	66.46	A16S
ATOM	12353	C4	C	A	596	121.118	103.746	-31.452	1.00	66.46	A16S
ATOM	12354	N4	C	A	596	120.881	105.048	-31.582	1.00	66.46	A16S
ATOM	12355	C5	C	A	596	120.039	102.823	-31.431	1.00	66.46	A16S
ATOM	12356	C2*	C	A	596	122.444	99.568	-29.365	1.00	56.35	A16S
ATOM	12357	O2*	C	A	596	123.469	98.601	-29.261	1.00	56.35	A16S
ATOM	12358	C3*	C	A	596	121.163	99.178	-28.647	1.00	56.35	A16S
ATOM	12359	O3*	C	A	596	121.375	98.479	-27.441	1.00	56.35	A16S
ATOM	12360	P	G	A	597	121.246	99.266	-26.052	1.00	56.65	A16S
ATOM	12361	O1P	G	A	597	121.112	98.266	-24.953	1.00	65.08	A16S
ATOM	12362	O2P	G	A	597	120.207	100.325	-26.218	1.00	65.08	A16S
ATOM	12363	O5*	G	A	597	122.655	99.995	-25.892	1.00	56.65	A16S
ATOM	12364	C5*	G	A	597	123.884	99.259	-26.028	1.00	56.65	A16S
ATOM	12365	C4*	G	A	597	125.030	100.201	-26.269	1.00	56.65	A16S
ATOM	12366	O4*	G	A	597	124.786	100.957	-27.483	1.00	56.65	A16S
ATOM	12367	C1*	G	A	597	125.293	102.272	-27.330	1.00	56.65	A16S
ATOM	12368	N9	G	A	597	124.202	103.231	-27.498	1.00	65.08	A16S
ATOM	12369	C4	G	A	597	124.324	104.603	-27.426	1.00	65.08	A16S
ATOM	12370	N3	G	A	597	125.477	105.285	-27.277	1.00	65.08	A16S
ATOM	12371	C2	G	A	597	125.278	106.583	-27.190	1.00	65.08	A16S
ATOM	12372	N2	G	A	597	126.326	107.407	-27.057	1.00	65.08	A16S
ATOM	12373	N1	G	A	597	124.045	107.173	-27.230	1.00	65.08	A16S
ATOM	12374	C6	G	A	597	122.841	106.501	-27.378	1.00	65.08	A16S
ATOM	12375	O6	G	A	597	121.780	107.141	-27.375	1.00	65.08	A16S
ATOM	12376	C5	G	A	597	123.042	105.091	-27.503	1.00	65.08	A16S
ATOM	12377	N7	G	A	597	122.131	104.053	-27.689	1.00	65.08	A16S
ATOM	12378	C8	G	A	597	122.866	102.971	-27.694	1.00	65.08	A16S
ATOM	12379	C2*	G	A	597	125.908	102.375	-25.930	1.00	56.65	A16S
ATOM	12380	O2*	G	A	597	127.299	102.170	-25.980	1.00	56.65	A16S
ATOM	12381	C3*	G	A	597	125.209	101.251	-25.195	1.00	56.65	A16S
ATOM	12382	O3*	G	A	597	126.015	100.777	-24.144	1.00	56.65	A16S
ATOM	12383	P	U	A	598	125.656	101.199	-22.643	1.00	53.43	A16S
ATOM	12384	O1P	U	A	598	124.326	100.581	-22.402	1.00	50.49	A16S
ATOM	12385	O2P	U	A	598	126.791	100.916	-21.708	1.00	50.49	A16S
ATOM	12386	O5*	U	A	598	125.448	102.775	-22.731	1.00	53.43	A16S
ATOM	12387	C5*	U	A	598	126.572	103.666	-22.807	1.00	53.43	A16S
ATOM	12388	C4*	U	A	598	126.099	105.096	-22.737	1.00	53.43	A16S
ATOM	12389	O4*	U	A	598	125.359	105.423	-23.935	1.00	53.43	A16S
ATOM	12390	C1*	U	A	598	124.290	106.286	-23.617	1.00	53.43	A16S



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ATOM	12391	N1	U	A	598	123.040	105.629	-24.021	1.00	50.49	A16S
ATOM	12392	C6	U	A	598	123.002	104.295	-24.323	1.00	50.49	A16S
ATOM	12393	C2	U	A	598	121.900	106.396	-24.083	1.00	50.49	A16S
ATOM	12394	O2	U	A	598	121.896	107.579	-23.825	1.00	50.49	A16S
ATOM	12395	N3	U	A	598	120.761	105.727	-24.456	1.00	50.49	A16S
ATOM	12396	C4	U	A	598	120.650	104.390	-24.766	1.00	50.49	A16S
ATOM	12397	O4	U	A	598	119.545	103.914	-25.048	1.00	50.49	A16S
ATOM	12398	C5	U	A	598	121.876	103.665	-24.684	1.00	50.49	A16S
ATOM	12399	C2*	U	A	598	124.361	106.578	-22.120	1.00	53.43	A16S
ATOM	12400	O2*	U	A	598	125.105	107.749	-21.887	1.00	53.43	A16S
ATOM	12401	C3*	U	A	598	125.130	105.382	-21.612	1.00	53.43	A16S
ATOM	12402	O3*	U	A	598	125.804	105.694	-20.422	1.00	53.43	A16S
ATOM	12403	P	C	A	599	125.140	105.277	-19.031	1.00	61.94	A16S
ATOM	12404	O1P	C	A	599	124.499	103.950	-19.286	1.00	60.86	A16S
ATOM	12405	O2P	C	A	599	126.138	105.421	-17.920	1.00	60.86	A16S
ATOM	12406	O5*	C	A	599	123.991	106.366	-18.853	1.00	61.94	A16S
ATOM	12407	C5*	C	A	599	124.322	107.736	-18.584	1.00	61.94	A16S
ATOM	12408	C4*	C	A	599	123.076	108.583	-18.532	1.00	61.94	A16S
ATOM	12409	O4*	C	A	599	122.459	108.637	-19.840	1.00	61.94	A16S
ATOM	12410	C1*	C	A	599	121.060	108.790	-19.694	1.00	61.94	A16S
ATOM	12411	N1	C	A	599	120.387	107.637	-20.296	1.00	60.86	A16S
ATOM	12412	C6	C	A	599	121.040	106.452	-20.489	1.00	60.86	A16S
ATOM	12413	C2	C	A	599	119.040	107.772	-20.661	1.00	60.86	A16S
ATOM	12414	O2	C	A	599	118.484	108.875	-20.509	1.00	60.86	A16S
ATOM	12415	N3	C	A	599	118.386	106.708	-21.175	1.00	60.86	A16S
ATOM	12416	C4	C	A	599	119.031	105.553	-21.346	1.00	60.86	A16S
ATOM	12417	N4	C	A	599	118.348	104.531	-21.844	1.00	60.86	A16S
ATOM	12418	C5	C	A	599	120.408	105.395	-21.010	1.00	60.86	A16S
ATOM	12419	C2*	C	A	599	120.753	108.856	-18.207	1.00	61.94	A16S
ATOM	12420	O2*	C	A	599	120.708	110.228	-17.876	1.00	61.94	A16S
ATOM	12421	C3*	C	A	599	121.953	108.125	-17.623	1.00	61.94	A16S
ATOM	12422	O3*	C	A	599	122.199	108.471	-16.276	1.00	61.94	A16S
ATOM	12423	P	C	A	600	121.500	107.622	-15.106	1.00	63.04	A16S
ATOM	12424	O1P	C	A	600	121.585	106.185	-15.438	1.00	47.72	A16S
ATOM	12425	O2P	C	A	600	122.031	108.108	-13.803	1.00	47.72	A16S
ATOM	12426	O5*	C	A	600	119.965	108.002	-15.250	1.00	63.04	A16S
ATOM	12427	C5*	C	A	600	119.527	109.360	-15.057	1.00	63.04	A16S
ATOM	12428	C4*	C	A	600	118.020	109.435	-15.118	1.00	63.04	A16S
ATOM	12429	O4*	C	A	600	117.561	109.114	-16.454	1.00	63.04	A16S
ATOM	12430	C1*	C	A	600	116.289	108.510	-16.378	1.00	63.04	A16S
ATOM	12431	N1	C	A	600	116.314	107.250	-17.124	1.00	47.72	A16S
ATOM	12432	C6	C	A	600	117.406	106.430	-17.103	1.00	47.72	A16S
ATOM	12433	C2	C	A	600	115.182	106.899	-17.859	1.00	47.72	A16S
ATOM	12434	O2	C	A	600	114.211	107.677	-17.874	1.00	47.72	A16S
ATOM	12435	N3	C	A	600	115.171	105.736	-18.540	1.00	47.72	A16S
ATOM	12436	C4	C	A	600	116.241	104.952	-18.526	1.00	47.72	A16S
ATOM	12437	N4	C	A	600	116.195	103.843	-19.244	1.00	47.72	A16S
ATOM	12438	C5	C	A	600	117.410	105.281	-17.785	1.00	47.72	A16S
ATOM	12439	C2*	C	A	600	115.928	108.326	-14.906	1.00	63.04	A16S
ATOM	12440	O2*	C	A	600	115.072	109.364	-14.493	1.00	63.04	A16S
ATOM	12441	C3*	C	A	600	117.283	108.444	-14.237	1.00	63.04	A16S
ATOM	12442	O3*	C	A	600	117.149	108.911	-12.917	1.00	63.04	A16S
ATOM	12443	P	C	A	601	116.913	107.848	-11.747	1.00	55.97	A16S
ATOM	12444	O1P	C	A	601	116.983	108.616	-10.467	1.00	68.02	A16S
ATOM	12445	O2P	C	A	601	117.836	106.687	-11.960	1.00	68.02	A16S
ATOM	12446	O5*	C	A	601	115.410	107.369	-11.999	1.00	55.97	A16S
ATOM	12447	C5*	C	A	601	114.321	108.304	-11.872	1.00	55.97	A16S
ATOM	12448	C4*	C	A	601	112.997	107.645	-12.185	1.00	55.97	A16S
ATOM	12449	O4*	C	A	601	112.900	107.312	-13.591	1.00	55.97	A16S
ATOM	12450	C1*	C	A	601	112.077	106.174	-13.750	1.00	55.97	A16S
ATOM	12451	N1	C	A	601	112.814	105.157	-14.505	1.00	68.02	A16S
ATOM	12452	C6	C	A	601	114.171	105.079	-14.430	1.00	68.02	A16S
ATOM	12453	C2	C	A	601	112.096	104.256	-15.308	1.00	68.02	A16S
ATOM	12454	O2	C	A	601	110.862	104.346	-15.368	1.00	68.02	A16S
ATOM	12455	N3	C	A	601	112.760	103.314	-15.995	1.00	68.02	A16S
ATOM	12456	C4	C	A	601	114.084	103.244	-15.910	1.00	68.02	A16S
ATOM	12457	N4	C	A	601	114.696	102.290	-16.600	1.00	68.02	A16S
ATOM	12458	C5	C	A	601	114.840	104.148	-15.110	1.00	68.02	A16S
ATOM	12459	C2*	C	A	601	111.651	105.696	-12.363	1.00	55.97	A16S
ATOM	12460	O2*	C	A	601	110.355	106.173	-12.101	1.00	55.97	A16S
ATOM	12461	C3*	C	A	601	112.702	106.345	-11.472	1.00	55.97	A16S
ATOM	12462	O3*	C	A	601	112.226	106.566	-10.157	1.00	55.97	A16S
ATOM	12463	P	A	A	602	112.408	105.409	-9.063	1.00	54.70	A16S
ATOM	12464	O1P	A	A	602	111.966	105.957	-7.757	1.00	83.23	A16S
ATOM	12465	O2P	A	A	602	113.778	104.859	-9.194	1.00	83.23	A16S
ATOM	12466	O5*	A	A	602	111.388	104.289	-9.557	1.00	54.70	A16S
ATOM	12467	C5*	A	A	602	109.991	104.582	-9.620	1.00	54.70	A16S



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ATOM	12468	C4*	A	A 602	109.224	103.444	-10.241	1.00	54.70	A16S
ATOM	12469	O4*	A	A 602	109.542	103.331	-11.647	1.00	54.70	A16S
ATOM	12470	C1*	A	A 602	109.392	101.982	-12.053	1.00	54.70	A16S
ATOM	12471	N9	A	A 602	110.664	101.519	-12.610	1.00	83.23	A16S
ATOM	12472	C4	A	A 602	110.828	100.386	-13.366	1.00	83.23	A16S
ATOM	12473	N3	A	A 602	109.874	99.527	-13.754	1.00	83.23	A16S
ATOM	12474	C2	A	A 602	110.401	98.532	-14.454	1.00	83.23	A16S
ATOM	12475	N1	A	A 602	111.674	98.312	-14.782	1.00	83.23	A16S
ATOM	12476	C6	A	A 602	112.607	99.193	-14.376	1.00	83.23	A16S
ATOM	12477	N6	A	A 602	113.877	98.960	-14.696	1.00	83.23	A16S
ATOM	12478	C5	A	A 602	112.178	100.300	-13.633	1.00	83.23	A16S
ATOM	12479	N7	A	A 602	112.857	101.374	-13.077	1.00	83.23	A16S
ATOM	12480	C8	A	A 602	111.916	102.070	-12.486	1.00	83.23	A16S
ATOM	12481	C2*	A	A 602	108.971	101.164	-10.826	1.00	54.70	A16S
ATOM	12482	O2*	A	A 602	107.569	100.972	-10.826	1.00	54.70	A16S
ATOM	12483	C3*	A	A 602	109.452	102.052	-9.688	1.00	54.70	A16S
ATOM	12484	O3*	A	A 602	108.731	101.826	-8.497	1.00	54.70	A16S
ATOM	12485	P	U	A 603	109.355	100.859	-7.385	1.00	61.73	A16S
ATOM	12486	O1P	U	A 603	108.476	100.897	-6.185	1.00	70.54	A16S
ATOM	12487	O2P	U	A 603	110.787	101.196	-7.243	1.00	70.54	A16S
ATOM	12488	O5*	U	A 603	109.250	99.427	-8.069	1.00	61.73	A16S
ATOM	12489	C5*	U	A 603	107.968	98.862	-8.394	1.00	61.73	A16S
ATOM	12490	C4*	U	A 603	108.138	97.565	-9.152	1.00	61.73	A16S
ATOM	12491	O4*	U	A 603	108.674	97.836	-10.473	1.00	61.73	A16S
ATOM	12492	C1*	U	A 603	109.536	96.776	-10.864	1.00	61.73	A16S
ATOM	12493	N1	U	A 603	110.891	97.313	-11.067	1.00	70.54	A16S
ATOM	12494	C6	U	A 603	111.316	98.466	-10.453	1.00	70.54	A16S
ATOM	12495	C2	U	A 603	111.734	96.601	-11.888	1.00	70.54	A16S
ATOM	12496	O2	U	A 603	111.392	95.581	-12.448	1.00	70.54	A16S
ATOM	12497	N3	U	A 603	112.995	97.122	-12.023	1.00	70.54	A16S
ATOM	12498	C4	U	A 603	113.490	98.257	-11.425	1.00	70.54	A16S
ATOM	12499	O4	U	A 603	114.672	98.565	-11.591	1.00	70.54	A16S
ATOM	12500	C5	U	A 603	112.553	98.946	-10.598	1.00	70.54	A16S
ATOM	12501	C2*	U	A 603	109.524	95.726	-9.754	1.00	61.73	A16S
ATOM	12502	O2*	U	A 603	108.601	94.704	-10.057	1.00	61.73	A16S
ATOM	12503	C3*	U	A 603	109.111	96.561	-8.552	1.00	61.73	A16S
ATOM	12504	O3*	U	A 603	108.540	95.766	-7.528	1.00	61.73	A16S
ATOM	12505	P	G	A 604	109.503	95.100	-6.428	1.00	55.93	A16S
ATOM	12506	O1P	G	A 604	108.651	94.440	-5.409	1.00	68.95	A16S
ATOM	12507	O2P	G	A 604	110.506	96.124	-6.000	1.00	68.95	A16S
ATOM	12508	O5*	G	A 604	110.206	93.927	-7.241	1.00	55.93	A16S
ATOM	12509	C5*	G	A 604	109.405	92.903	-7.832	1.00	55.93	A16S
ATOM	12510	C4*	G	A 604	110.266	91.922	-8.573	1.00	55.93	A16S
ATOM	12511	O4*	G	A 604	110.787	92.509	-9.793	1.00	55.93	A16S
ATOM	12512	C1*	G	A 604	112.045	91.922	-10.101	1.00	55.93	A16S
ATOM	12513	N9	G	A 604	113.071	92.966	-10.175	1.00	68.95	A16S
ATOM	12514	C4	G	A 604	114.304	92.869	-10.793	1.00	68.95	A16S
ATOM	12515	N3	G	A 604	114.776	91.800	-11.466	1.00	68.95	A16S
ATOM	12516	C2	G	A 604	116.001	92.000	-11.912	1.00	68.95	A16S
ATOM	12517	N2	G	A 604	116.621	91.039	-12.598	1.00	68.95	A16S
ATOM	12518	N1	G	A 604	116.707	93.157	-11.718	1.00	68.95	A16S
ATOM	12519	C6	G	A 604	116.241	94.273	-11.035	1.00	68.95	A16S
ATOM	12520	O6	G	A 604	116.960	95.273	-10.920	1.00	68.95	A16S
ATOM	12521	C5	G	A 604	114.931	94.072	-10.549	1.00	68.95	A16S
ATOM	12522	N7	G	A 604	114.110	94.916	-9.816	1.00	68.95	A16S
ATOM	12523	C8	G	A 604	113.019	94.223	-9.622	1.00	68.95	A16S
ATOM	12524	C2*	G	A 604	112.346	90.907	-8.999	1.00	55.93	A16S
ATOM	12525	O2*	G	A 604	111.887	89.644	-9.423	1.00	55.93	A16S
ATOM	12526	C3*	G	A 604	111.499	91.432	-7.851	1.00	55.93	A16S
ATOM	12527	O3*	G	A 604	111.207	90.416	-6.922	1.00	55.93	A16S
ATOM	12528	P	U	A 605	112.188	90.199	-5.672	1.00	60.49	A16S
ATOM	12529	O1P	U	A 605	111.671	89.031	-4.919	1.00	64.55	A16S
ATOM	12530	O2P	U	A 605	112.374	91.504	-4.976	1.00	64.55	A16S
ATOM	12531	O5*	U	A 605	113.579	89.799	-6.342	1.00	60.49	A16S
ATOM	12532	C5*	U	A 605	113.723	88.556	-7.051	1.00	60.49	A16S
ATOM	12533	C4*	U	A 605	115.111	88.430	-7.620	1.00	60.49	A16S
ATOM	12534	O4*	U	A 605	115.304	89.444	-8.636	1.00	60.49	A16S
ATOM	12535	C1*	U	A 605	116.666	89.833	-8.654	1.00	60.49	A16S
ATOM	12536	N1	U	A 605	116.763	91.271	-8.380	1.00	64.55	A16S
ATOM	12537	C6	U	A 605	115.790	91.952	-7.696	1.00	64.55	A16S
ATOM	12538	C2	U	A 605	117.891	91.908	-8.820	1.00	64.55	A16S
ATOM	12539	O2	U	A 605	118.759	91.333	-9.443	1.00	64.55	A16S
ATOM	12540	N3	U	A 605	117.971	93.241	-8.508	1.00	64.55	A16S
ATOM	12541	C4	U	A 605	117.045	93.988	-7.824	1.00	64.55	A16S
ATOM	12542	O4	U	A 605	117.218	95.204	-7.695	1.00	64.55	A16S
ATOM	12543	C5	U	A 605	115.891	93.256	-7.406	1.00	64.55	A16S
ATOM	12544	C2*	U	A 605	117.407	89.041	-7.572	1.00	60.49	A16S



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ATOM	12545	O2*	U	A	605	118.075	87.925	-8.129	1.00	60.49	A16S
ATOM	12546	C3*	U	A	605	116.266	88.645	-6.650	1.00	60.49	A16S
ATOM	12547	O3*	U	A	605	116.608	87.482	-5.916	1.00	60.49	A16S
ATOM	12548	P	G	A	606	117.199	87.636	-4.433	1.00	66.00	A16S
ATOM	12549	O1P	G	A	606	117.528	86.270	-3.942	1.00	98.57	A16S
ATOM	12550	O2P	G	A	606	116.254	88.486	-3.670	1.00	98.57	A16S
ATOM	12551	O5*	G	A	606	118.560	88.436	-4.631	1.00	66.00	A16S
ATOM	12552	C5*	G	A	606	119.671	87.817	-5.293	1.00	66.00	A16S
ATOM	12553	C4*	G	A	606	120.810	88.794	-5.449	1.00	66.00	A16S
ATOM	12554	O4*	G	A	606	120.378	89.929	-6.237	1.00	66.00	A16S
ATOM	12555	C1*	G	A	606	121.041	91.095	-5.788	1.00	66.00	A16S
ATOM	12556	N9	G	A	606	120.027	92.053	-5.363	1.00	98.57	A16S
ATOM	12557	C4	G	A	606	120.112	93.420	-5.429	1.00	98.57	A16S
ATOM	12558	N3	G	A	606	121.159	94.128	-5.894	1.00	98.57	A16S
ATOM	12559	C2	G	A	606	120.941	95.430	-5.834	1.00	98.57	A16S
ATOM	12560	N2	G	A	606	121.882	96.290	-6.256	1.00	98.57	A16S
ATOM	12561	N1	G	A	606	119.786	95.990	-5.356	1.00	98.57	A16S
ATOM	12562	C6	G	A	606	118.694	95.280	-4.872	1.00	98.57	A16S
ATOM	12563	O6	G	A	606	117.691	95.887	-4.465	1.00	98.57	A16S
ATOM	12564	C5	G	A	606	118.916	93.883	-4.930	1.00	98.57	A16S
ATOM	12565	N7	G	A	606	118.099	92.830	-4.552	1.00	98.57	A16S
ATOM	12566	C8	G	A	606	118.799	91.766	-4.824	1.00	98.57	A16S
ATOM	12567	C2*	G	A	606	121.996	90.689	-4.664	1.00	66.00	A16S
ATOM	12568	O2*	G	A	606	123.284	90.467	-5.206	1.00	66.00	A16S
ATOM	12569	C3*	G	A	606	121.374	89.389	-4.173	1.00	66.00	A16S
ATOM	12570	O3*	G	A	606	122.390	88.551	-3.655	1.00	66.00	A16S
ATOM	12571	P	A	A	607	122.533	88.357	-2.069	1.00	72.57	A16S
ATOM	12572	O1P	A	A	607	122.098	89.597	-1.376	1.00	88.25	A16S
ATOM	12573	O2P	A	A	607	123.887	87.812	-1.790	1.00	88.25	A16S
ATOM	12574	O5*	A	A	607	121.467	87.210	-1.772	1.00	72.57	A16S
ATOM	12575	C5*	A	A	607	120.055	87.490	-1.733	1.00	72.57	A16S
ATOM	12576	C4*	A	A	607	119.379	86.607	-0.704	1.00	72.57	A16S
ATOM	12577	O4*	A	A	607	119.603	85.223	-1.073	1.00	72.57	A16S
ATOM	12578	C1*	A	A	607	119.769	84.435	0.093	1.00	72.57	A16S
ATOM	12579	N9	A	A	607	121.108	83.838	0.066	1.00	88.25	A16S
ATOM	12580	C4	A	A	607	121.610	82.961	0.995	1.00	88.25	A16S
ATOM	12581	N3	A	A	607	120.981	82.477	2.079	1.00	88.25	A16S
ATOM	12582	C2	A	A	607	121.781	81.662	2.755	1.00	88.25	A16S
ATOM	12583	N1	A	A	607	123.045	81.310	2.496	1.00	88.25	A16S
ATOM	12584	C6	A	A	607	123.649	81.823	1.405	1.00	88.25	A16S
ATOM	12585	N6	A	A	607	124.915	81.489	1.159	1.00	88.25	A16S
ATOM	12586	C5	A	A	607	122.906	82.689	0.597	1.00	88.25	A16S
ATOM	12587	N7	A	A	607	123.215	83.368	-0.572	1.00	88.25	A16S
ATOM	12588	C8	A	A	607	122.118	84.032	-0.847	1.00	88.25	A16S
ATOM	12589	C2*	A	A	607	119.578	85.349	1.304	1.00	72.57	A16S
ATOM	12590	O2*	A	A	607	118.251	85.295	1.786	1.00	72.57	A16S
ATOM	12591	C3*	A	A	607	119.914	86.707	0.718	1.00	72.57	A16S
ATOM	12592	O3*	A	A	607	119.318	87.731	1.488	1.00	72.57	A16S
ATOM	12593	P	A	A	608	120.081	88.279	2.793	1.00	59.92	A16S
ATOM	12594	O1P	A	A	608	119.078	89.045	3.573	1.00	60.42	A16S
ATOM	12595	O2P	A	A	608	121.391	88.925	2.409	1.00	60.42	A16S
ATOM	12596	O5*	A	A	608	120.426	86.972	3.634	1.00	59.92	A16S
ATOM	12597	C5*	A	A	608	119.459	86.354	4.498	1.00	59.92	A16S
ATOM	12598	C4*	A	A	608	120.140	85.340	5.386	1.00	59.92	A16S
ATOM	12599	O4*	A	A	608	120.721	84.297	4.561	1.00	59.92	A16S
ATOM	12600	C1*	A	A	608	121.957	83.879	5.121	1.00	59.92	A16S
ATOM	12601	N9	A	A	608	123.030	84.196	4.181	1.00	60.42	A16S
ATOM	12602	C4	A	A	608	124.318	83.738	4.262	1.00	60.42	A16S
ATOM	12603	N3	A	A	608	124.819	82.903	5.179	1.00	60.42	A16S
ATOM	12604	C2	A	A	608	126.113	82.699	4.956	1.00	60.42	A16S
ATOM	12605	N1	A	A	608	126.903	83.209	4.000	1.00	60.42	A16S
ATOM	12606	C6	A	A	608	126.363	84.052	3.102	1.00	60.42	A16S
ATOM	12607	N6	A	A	608	127.156	84.579	2.171	1.00	60.42	A16S
ATOM	12608	C5	A	A	608	124.999	84.331	3.216	1.00	60.42	A16S
ATOM	12609	N7	A	A	608	124.149	85.127	2.470	1.00	60.42	A16S
ATOM	12610	C8	A	A	608	122.995	85.012	3.081	1.00	60.42	A16S
ATOM	12611	C2*	A	A	608	122.159	84.645	6.425	1.00	59.92	A16S
ATOM	12612	O2*	A	A	608	121.691	83.881	7.517	1.00	59.92	A16S
ATOM	12613	C3*	A	A	608	121.311	85.879	6.187	1.00	59.92	A16S
ATOM	12614	O3*	A	A	608	120.916	86.449	7.412	1.00	59.92	A16S
ATOM	12615	P	A	A	609	121.732	87.705	7.993	1.00	46.72	A16S
ATOM	12616	O1P	A	A	609	121.217	88.009	9.354	1.00	81.76	A16S
ATOM	12617	O2P	A	A	609	121.700	88.760	6.939	1.00	81.76	A16S
ATOM	12618	O5*	A	A	609	123.221	87.166	8.161	1.00	46.72	A16S
ATOM	12619	C5*	A	A	609	123.505	86.125	9.091	1.00	46.72	A16S
ATOM	12620	C4*	A	A	609	124.906	85.616	8.899	1.00	46.72	A16S
ATOM	12621	O4*	A	A	609	125.051	85.004	7.594	1.00	46.72	A16S



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ATOM	12622	C1*	A	A	609	126.364	85.244	7.107	1.00	46.72	A16S
ATOM	12623	N9	A	A	609	126.261	86.060	5.903	1.00	81.76	A16S
ATOM	12624	C4	A	A	609	127.279	86.376	5.041	1.00	81.76	A16S
ATOM	12625	N3	A	A	609	128.553	85.963	5.100	1.00	81.76	A16S
ATOM	12626	C2	A	A	609	129.260	86.499	4.112	1.00	81.76	A16S
ATOM	12627	N1	A	A	609	128.868	87.341	3.146	1.00	81.76	A16S
ATOM	12628	C6	A	A	609	127.578	87.734	3.120	1.00	81.76	A16S
ATOM	12629	N6	A	A	609	127.177	88.581	2.168	1.00	81.76	A16S
ATOM	12630	C5	A	A	609	126.727	87.230	4.106	1.00	81.76	A16S
ATOM	12631	N7	A	A	609	125.378	87.427	4.354	1.00	81.76	A16S
ATOM	12632	C8	A	A	609	125.150	86.706	5.423	1.00	81.76	A16S
ATOM	12633	C2*	A	A	609	127.126	86.011	8.188	1.00	46.72	A16S
ATOM	12634	O2*	A	A	609	127.845	85.116	9.012	1.00	46.72	A16S
ATOM	12635	C3*	A	A	609	125.991	86.672	8.946	1.00	46.72	A16S
ATOM	12636	O3*	A	A	609	126.363	86.963	10.273	1.00	46.72	A16S
ATOM	12637	P	G	A	610	126.659	88.482	10.686	1.00	58.31	A16S
ATOM	12638	O1P	G	A	610	127.208	88.443	12.071	1.00	88.71	A16S
ATOM	12639	O2P	G	A	610	125.453	89.309	10.384	1.00	88.71	A16S
ATOM	12640	O5*	G	A	610	127.833	88.914	9.704	1.00	58.31	A16S
ATOM	12641	C5*	G	A	610	129.090	88.219	9.735	1.00	58.31	A16S
ATOM	12642	C4*	G	A	610	130.042	88.775	8.702	1.00	58.31	A16S
ATOM	12643	O4*	G	A	610	129.582	88.464	7.367	1.00	58.31	A16S
ATOM	12644	C1*	G	A	610	129.979	89.495	6.489	1.00	58.31	A16S
ATOM	12645	N9	G	A	610	128.783	90.032	5.857	1.00	88.71	A16S
ATOM	12646	C4	G	A	610	128.752	90.963	4.862	1.00	88.71	A16S
ATOM	12647	N3	G	A	610	129.826	91.545	4.299	1.00	88.71	A16S
ATOM	12648	C2	G	A	610	129.485	92.422	3.381	1.00	88.71	A16S
ATOM	12649	N2	G	A	610	130.434	93.107	2.742	1.00	88.71	A16S
ATOM	12650	N1	G	A	610	128.187	92.694	3.028	1.00	88.71	A16S
ATOM	12651	C6	G	A	610	127.064	92.092	3.587	1.00	88.71	A16S
ATOM	12652	O6	G	A	610	125.931	92.392	3.182	1.00	88.71	A16S
ATOM	12653	C5	G	A	610	127.421	91.164	4.589	1.00	88.71	A16S
ATOM	12654	N7	G	A	610	126.628	90.368	5.398	1.00	88.71	A16S
ATOM	12655	C8	G	A	610	127.480	89.714	6.134	1.00	88.71	A16S
ATOM	12656	C2*	G	A	610	130.747	90.544	7.298	1.00	58.31	A16S
ATOM	12657	O2*	G	A	610	132.130	90.283	7.232	1.00	58.31	A16S
ATOM	12658	C3*	G	A	610	130.246	90.278	8.703	1.00	58.31	A16S
ATOM	12659	O3*	G	A	610	131.219	90.654	9.651	1.00	58.31	A16S
ATOM	12660	P	A	A	611	131.072	92.054	10.396	1.00	57.66	A16S
ATOM	12661	O1P	A	A	611	132.240	92.215	11.295	1.00	75.55	A16S
ATOM	12662	O2P	A	A	611	129.704	92.112	10.956	1.00	75.55	A16S
ATOM	12663	O5*	A	A	611	131.189	93.111	9.216	1.00	57.66	A16S
ATOM	12664	C5*	A	A	611	132.447	93.314	8.555	1.00	57.66	A16S
ATOM	12665	C4*	A	A	611	132.307	94.353	7.472	1.00	57.66	A16S
ATOM	12666	O4*	A	A	611	131.489	93.836	6.393	1.00	57.66	A16S
ATOM	12667	C1*	A	A	611	130.685	94.872	5.867	1.00	57.66	A16S
ATOM	12668	N9	A	A	611	129.296	94.506	6.100	1.00	75.55	A16S
ATOM	12669	C4	A	A	611	128.212	95.046	5.471	1.00	75.55	A16S
ATOM	12670	N3	A	A	611	128.218	95.983	4.514	1.00	75.55	A16S
ATOM	12671	C2	A	A	611	126.981	96.288	4.157	1.00	75.55	A16S
ATOM	12672	N1	A	A	611	125.829	95.801	4.612	1.00	75.55	A16S
ATOM	12673	C6	A	A	611	125.863	94.855	5.575	1.00	75.55	A16S
ATOM	12674	N6	A	A	611	124.709	94.363	6.034	1.00	75.55	A16S
ATOM	12675	C5	A	A	611	127.112	94.446	6.037	1.00	75.55	A16S
ATOM	12676	N7	A	A	611	127.494	93.522	6.997	1.00	75.55	A16S
ATOM	12677	C8	A	A	611	128.798	93.591	6.992	1.00	75.55	A16S
ATOM	12678	C2*	A	A	611	131.050	96.165	6.601	1.00	57.66	A16S
ATOM	12679	O2*	A	A	611	132.000	96.887	5.853	1.00	57.66	A16S
ATOM	12680	C3*	A	A	611	131.621	95.631	7.905	1.00	57.66	A16S
ATOM	12681	O3*	A	A	611	132.543	96.517	8.507	1.00	57.66	A16S
ATOM	12682	P	C	A	612	132.109	97.321	9.825	1.00	61.36	A16S
ATOM	12683	O1P	C	A	612	133.256	98.165	10.270	1.00	86.00	A16S
ATOM	12684	O2P	C	A	612	131.512	96.339	10.769	1.00	86.00	A16S
ATOM	12685	O5*	C	A	612	130.949	98.271	9.293	1.00	61.36	A16S
ATOM	12686	C5*	C	A	612	131.249	99.309	8.350	1.00	61.36	A16S
ATOM	12687	C4*	C	A	612	130.029	100.154	8.084	1.00	61.36	A16S
ATOM	12688	O4*	C	A	612	129.089	99.437	7.252	1.00	61.36	A16S
ATOM	12689	C1*	C	A	612	127.773	99.796	7.618	1.00	61.36	A16S
ATOM	12690	N1	C	A	612	127.052	98.566	7.982	1.00	86.00	A16S
ATOM	12691	C6	C	A	612	127.726	97.483	8.471	1.00	86.00	A16S
ATOM	12692	C2	C	A	612	125.664	98.512	7.805	1.00	86.00	A16S
ATOM	12693	O2	C	A	612	125.065	99.513	7.385	1.00	86.00	A16S
ATOM	12694	N3	C	A	612	125.008	97.373	8.100	1.00	86.00	A16S
ATOM	12695	C4	C	A	612	125.679	96.319	8.561	1.00	86.00	A16S
ATOM	12696	N4	C	A	612	124.989	95.212	8.828	1.00	86.00	A16S
ATOM	12697	C5	C	A	612	127.087	96.351	8.768	1.00	86.00	A16S
ATOM	12698	C2*	C	A	612	127.860	100.845	8.733	1.00	61.36	A16S



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ATOM	12699	O2*	C	A	612	127.823	102.139	8.178	1.00	61.36	A16S
ATOM	12700	C3*	C	A	612	129.237	100.575	9.306	1.00	61.36	A16S
ATOM	12701	O3*	C	A	612	129.787	101.738	9.893	1.00	61.36	A16S
ATOM	12702	P	C	A	613	129.716	101.918	11.483	1.00	64.27	A16S
ATOM	12703	O1P	C	A	613	130.617	103.048	11.844	1.00	100.66	A16S
ATOM	12704	O2P	C	A	613	129.931	100.589	12.113	1.00	100.66	A16S
ATOM	12705	O5*	C	A	613	128.201	102.354	11.712	1.00	64.27	A16S
ATOM	12706	C5*	C	A	613	127.727	103.627	11.224	1.00	64.27	A16S
ATOM	12707	C4*	C	A	613	126.250	103.810	11.514	1.00	64.27	A16S
ATOM	12708	O4*	C	A	613	125.445	103.006	10.613	1.00	64.27	A16S
ATOM	12709	C1*	C	A	613	124.278	102.555	11.289	1.00	64.27	A16S
ATOM	12710	N1	C	A	613	124.309	101.074	11.343	1.00	100.66	A16S
ATOM	12711	C6	C	A	613	125.471	100.395	11.096	1.00	100.66	A16S
ATOM	12712	C2	C	A	613	123.132	100.367	11.667	1.00	100.66	A16S
ATOM	12713	O2	C	A	613	122.079	100.996	11.870	1.00	100.66	A16S
ATOM	12714	N3	C	A	613	123.182	99.015	11.749	1.00	100.66	A16S
ATOM	12715	C4	C	A	613	124.332	98.371	11.516	1.00	100.66	A16S
ATOM	12716	N4	C	A	613	124.346	97.043	11.613	1.00	100.66	A16S
ATOM	12717	C5	C	A	613	125.525	99.061	11.172	1.00	100.66	A16S
ATOM	12718	C2*	C	A	613	124.292	103.184	12.686	1.00	64.27	A16S
ATOM	12719	O2*	C	A	613	123.583	104.402	12.660	1.00	64.27	A16S
ATOM	12720	C3*	C	A	613	125.776	103.426	12.902	1.00	64.27	A16S
ATOM	12721	O3*	C	A	613	126.002	104.449	13.847	1.00	64.27	A16S
ATOM	12722	P	A	A	614	126.054	104.075	15.411	1.00	72.05	A16S
ATOM	12723	O1P	A	A	614	126.460	105.320	16.127	1.00	97.02	A16S
ATOM	12724	O2P	A	A	614	126.850	102.828	15.594	1.00	97.02	A16S
ATOM	12725	O5*	A	A	614	124.532	103.751	15.756	1.00	72.05	A16S
ATOM	12726	C5*	A	A	614	123.515	104.738	15.509	1.00	72.05	A16S
ATOM	12727	C4*	A	A	614	122.148	104.176	15.791	1.00	72.05	A16S
ATOM	12728	O4*	A	A	614	121.785	103.198	14.787	1.00	72.05	A16S
ATOM	12729	C1*	A	A	614	121.030	102.165	15.389	1.00	72.05	A16S
ATOM	12730	N9	A	A	614	121.777	100.915	15.239	1.00	97.02	A16S
ATOM	12731	C4	A	A	614	121.266	99.647	15.388	1.00	97.02	A16S
ATOM	12732	N3	A	A	614	119.998	99.305	15.677	1.00	97.02	A16S
ATOM	12733	C2	A	A	614	119.874	97.987	15.755	1.00	97.02	A16S
ATOM	12734	N1	A	A	614	120.797	97.045	15.598	1.00	97.02	A16S
ATOM	12735	C6	A	A	614	122.060	97.420	15.314	1.00	97.02	A16S
ATOM	12736	N6	A	A	614	122.983	96.477	15.174	1.00	97.02	A16S
ATOM	12737	C5	A	A	614	122.326	98.787	15.192	1.00	97.02	A16S
ATOM	12738	N7	A	A	614	123.490	99.493	14.911	1.00	97.02	A16S
ATOM	12739	C8	A	A	614	123.111	100.747	14.948	1.00	97.02	A16S
ATOM	12740	C2*	A	A	614	120.829	102.537	16.861	1.00	72.05	A16S
ATOM	12741	O2*	A	A	614	119.610	103.225	17.031	1.00	72.05	A16S
ATOM	12742	C3*	A	A	614	122.017	103.447	17.108	1.00	72.05	A16S
ATOM	12743	O3*	A	A	614	121.805	104.346	18.176	1.00	72.05	A16S
ATOM	12744	P	C	A	615	122.441	104.022	19.610	1.00	70.48	A16S
ATOM	12745	O1P	C	A	615	122.343	105.266	20.416	1.00	84.76	A16S
ATOM	12746	O2P	C	A	615	123.771	103.394	19.405	1.00	84.76	A16S
ATOM	12747	O5*	C	A	615	121.439	102.921	20.192	1.00	70.48	A16S
ATOM	12748	C5*	C	A	615	120.055	103.254	20.439	1.00	70.48	A16S
ATOM	12749	C4*	C	A	615	119.223	102.012	20.682	1.00	70.48	A16S
ATOM	12750	O4*	C	A	615	119.158	101.219	19.470	1.00	70.48	A16S
ATOM	12751	C1*	C	A	615	119.105	99.844	19.806	1.00	70.48	A16S
ATOM	12752	N1	C	A	615	120.320	99.189	19.285	1.00	84.76	A16S
ATOM	12753	C6	C	A	615	121.437	99.919	18.988	1.00	84.76	A16S
ATOM	12754	C2	C	A	615	120.321	97.798	19.102	1.00	84.76	A16S
ATOM	12755	O2	C	A	615	119.301	97.152	19.378	1.00	84.76	A16S
ATOM	12756	N3	C	A	615	121.431	97.195	18.634	1.00	84.76	A16S
ATOM	12757	C4	C	A	615	122.512	97.917	18.352	1.00	84.76	A16S
ATOM	12758	N4	C	A	615	123.586	97.276	17.900	1.00	84.76	A16S
ATOM	12759	C5	C	A	615	122.542	99.329	18.524	1.00	84.76	A16S
ATOM	12760	C2*	C	A	615	119.034	99.746	21.330	1.00	70.48	A16S
ATOM	12761	O2*	C	A	615	117.687	99.720	21.758	1.00	70.48	A16S
ATOM	12762	C3*	C	A	615	119.701	101.040	21.749	1.00	70.48	A16S
ATOM	12763	O3*	C	A	615	119.269	101.381	23.050	1.00	70.48	A16S
ATOM	12764	P	G	A	616	120.061	100.792	24.318	1.00	74.78	A16S
ATOM	12765	O1P	G	A	616	119.361	101.334	25.510	1.00	91.44	A16S
ATOM	12766	O2P	G	A	616	121.516	101.028	24.150	1.00	91.44	A16S
ATOM	12767	O5*	G	A	616	119.826	99.218	24.238	1.00	74.78	A16S
ATOM	12768	C5*	G	A	616	118.500	98.667	24.369	1.00	74.78	A16S
ATOM	12769	C4*	G	A	616	118.514	97.163	24.173	1.00	74.78	A16S
ATOM	12770	O4*	G	A	616	118.948	96.847	22.828	1.00	74.78	A16S
ATOM	12771	C1*	G	A	616	119.662	95.626	22.833	1.00	74.78	A16S
ATOM	12772	N9	G	A	616	121.017	95.884	22.354	1.00	91.44	A16S
ATOM	12773	C4	G	A	616	121.936	94.942	21.954	1.00	91.44	A16S
ATOM	12774	N3	G	A	616	121.743	93.605	21.931	1.00	91.44	A16S
ATOM	12775	C2	G	A	616	122.811	92.964	21.507	1.00	91.44	A16S



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ATOM	12776	N2	G	A	616	122.799	91.633	21.443	1.00	91.44	A16S
ATOM	12777	N1	G	A	616	123.975	93.583	21.119	1.00	91.44	A16S
ATOM	12778	C6	G	A	616	124.195	94.960	21.129	1.00	91.44	A16S
ATOM	12779	O6	G	A	616	125.286	95.424	20.751	1.00	91.44	A16S
ATOM	12780	C5	G	A	616	123.059	95.658	21.598	1.00	91.44	A16S
ATOM	12781	N7	G	A	616	122.853	97.017	21.773	1.00	91.44	A16S
ATOM	12782	C8	G	A	616	121.631	97.104	22.219	1.00	91.44	A16S
ATOM	12783	C2*	G	A	616	119.640	95.080	24.260	1.00	74.78	A16S
ATOM	12784	O2*	G	A	616	118.554	94.186	24.392	1.00	74.78	A16S
ATOM	12785	C3*	G	A	616	119.427	96.346	25.073	1.00	74.78	A16S
ATOM	12786	O3*	G	A	616	118.807	96.040	26.306	1.00	74.78	A16S
ATOM	12787	P	G	A	617	119.696	95.479	27.512	1.00	66.95	A16S
ATOM	12788	O1P	G	A	617	118.820	95.379	28.700	1.00	90.40	A16S
ATOM	12789	O2P	G	A	617	120.950	96.279	27.586	1.00	90.40	A16S
ATOM	12790	O5*	G	A	617	120.094	94.007	27.043	1.00	66.95	A16S
ATOM	12791	C5*	G	A	617	119.199	92.873	27.229	1.00	66.95	A16S
ATOM	12792	C4*	G	A	617	119.966	91.565	27.122	1.00	66.95	A16S
ATOM	12793	O4*	G	A	617	120.521	91.425	25.787	1.00	66.95	A16S
ATOM	12794	C1*	G	A	617	121.784	90.778	25.856	1.00	66.95	A16S
ATOM	12795	N9	G	A	617	122.798	91.650	25.270	1.00	90.40	A16S
ATOM	12796	C4	G	A	617	124.034	91.261	24.821	1.00	90.40	A16S
ATOM	12797	N3	G	A	617	124.525	90.004	24.845	1.00	90.40	A16S
ATOM	12798	C2	G	A	617	125.741	89.937	24.337	1.00	90.40	A16S
ATOM	12799	N2	G	A	617	126.374	88.758	24.279	1.00	90.40	A16S
ATOM	12800	N1	G	A	617	126.426	91.022	23.847	1.00	90.40	A16S
ATOM	12801	C6	G	A	617	125.944	92.329	23.821	1.00	90.40	A16S
ATOM	12802	O6	G	A	617	126.653	93.243	23.369	1.00	90.40	A16S
ATOM	12803	C5	G	A	617	124.634	92.410	24.357	1.00	90.40	A16S
ATOM	12804	N7	G	A	617	123.794	93.504	24.514	1.00	90.40	A16S
ATOM	12805	C8	G	A	617	122.719	93.006	25.059	1.00	90.40	A16S
ATOM	12806	C2*	G	A	617	122.072	90.454	27.320	1.00	66.95	A16S
ATOM	12807	O2*	G	A	617	121.739	89.109	27.587	1.00	66.95	A16S
ATOM	12808	C3*	G	A	617	121.170	91.446	28.037	1.00	66.95	A16S
ATOM	12809	O3*	G	A	617	120.816	90.977	29.312	1.00	66.95	A16S
ATOM	12810	P	C	A	618	121.687	91.435	30.573	1.00	67.50	A16S
ATOM	12811	O1P	C	A	618	121.033	90.849	31.780	1.00	86.17	A16S
ATOM	12812	O2P	C	A	618	121.860	92.907	30.474	1.00	86.17	A16S
ATOM	12813	O5*	C	A	618	123.114	90.749	30.352	1.00	67.50	A16S
ATOM	12814	C5*	C	A	618	123.307	89.397	30.768	1.00	67.50	A16S
ATOM	12815	C4*	C	A	618	124.678	88.866	30.400	1.00	67.50	A16S
ATOM	12816	O4*	C	A	618	124.969	89.033	28.994	1.00	67.50	A16S
ATOM	12817	C1*	C	A	618	126.322	88.690	28.799	1.00	67.50	A16S
ATOM	12818	N1	C	A	618	126.980	89.594	27.843	1.00	86.17	A16S
ATOM	12819	C6	C	A	618	126.659	90.918	27.749	1.00	86.17	A16S
ATOM	12820	C2	C	A	618	127.992	89.059	27.043	1.00	86.17	A16S
ATOM	12821	O2	C	A	618	128.233	87.846	27.116	1.00	86.17	A16S
ATOM	12822	N3	C	A	618	128.681	89.863	26.213	1.00	86.17	A16S
ATOM	12823	C4	C	A	618	128.389	91.152	26.146	1.00	86.17	A16S
ATOM	12824	N4	C	A	618	129.116	91.897	25.326	1.00	86.17	A16S
ATOM	12825	C5	C	A	618	127.337	91.729	26.922	1.00	86.17	A16S
ATOM	12826	C2*	C	A	618	127.006	88.710	30.165	1.00	67.50	A16S
ATOM	12827	O2*	C	A	618	127.236	87.362	30.529	1.00	67.50	A16S
ATOM	12828	C3*	C	A	618	125.954	89.363	31.060	1.00	67.50	A16S
ATOM	12829	O3*	C	A	618	126.097	88.830	32.378	1.00	67.50	A16S
ATOM	12830	P	U	A	619	127.465	89.065	33.218	1.00	70.38	A16S
ATOM	12831	O1P	U	A	619	128.640	88.516	32.480	1.00	60.35	A16S
ATOM	12832	O2P	U	A	619	127.228	88.645	34.624	1.00	60.35	A16S
ATOM	12833	O5*	U	A	619	127.649	90.639	33.245	1.00	70.38	A16S
ATOM	12834	C5*	U	A	619	126.623	91.483	33.750	1.00	70.38	A16S
ATOM	12835	C4*	U	A	619	127.192	92.836	34.030	1.00	70.38	A16S
ATOM	12836	O4*	U	A	619	128.059	92.780	35.187	1.00	70.38	A16S
ATOM	12837	C1*	U	A	619	129.128	93.680	35.010	1.00	70.38	A16S
ATOM	12838	N1	U	A	619	130.378	92.929	35.152	1.00	60.35	A16S
ATOM	12839	C6	U	A	619	130.473	91.620	34.742	1.00	60.35	A16S
ATOM	12840	C2	U	A	619	131.467	93.589	35.707	1.00	60.35	A16S
ATOM	12841	O2	U	A	619	131.427	94.753	36.089	1.00	60.35	A16S
ATOM	12842	N3	U	A	619	132.609	92.837	35.796	1.00	60.35	A16S
ATOM	12843	C4	U	A	619	132.773	91.532	35.403	1.00	60.35	A16S
ATOM	12844	O4	U	A	619	133.874	91.002	35.537	1.00	60.35	A16S
ATOM	12845	C5	U	A	619	131.602	90.918	34.845	1.00	60.35	A16S
ATOM	12846	C2*	U	A	619	128.976	94.341	33.634	1.00	70.38	A16S
ATOM	12847	O2*	U	A	619	128.364	95.609	33.751	1.00	70.38	A16S
ATOM	12848	C3*	U	A	619	128.072	93.358	32.916	1.00	70.38	A16S
ATOM	12849	O3*	U	A	619	127.282	93.963	31.912	1.00	70.38	A16S
ATOM	12850	P	C	A	620	127.573	93.620	30.370	1.00	62.73	A16S
ATOM	12851	O1P	C	A	620	126.507	94.300	29.537	1.00	67.62	A16S
ATOM	12852	O2P	C	A	620	127.772	92.145	30.243	1.00	67.62	A16S



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ATOM	12853	O5*	C	A	620	128.987	94.314	30.134	1.00	62.73	A16S
ATOM	12854	C5*	C	A	620	129.141	95.710	30.378	1.00	62.73	A16S
ATOM	12855	C4*	C	A	620	130.398	96.218	29.738	1.00	62.73	A16S
ATOM	12856	O4*	C	A	620	131.535	95.762	30.491	1.00	62.73	A16S
ATOM	12857	C1*	C	A	620	132.645	95.651	29.627	1.00	62.73	A16S
ATOM	12858	N1	C	A	620	133.315	94.357	29.852	1.00	67.62	A16S
ATOM	12859	C6	C	A	620	132.603	93.225	30.137	1.00	67.62	A16S
ATOM	12860	C2	C	A	620	134.709	94.314	29.786	1.00	67.62	A16S
ATOM	12861	O2	C	A	620	135.335	95.349	29.504	1.00	67.62	A16S
ATOM	12862	N3	C	A	620	135.345	93.152	30.031	1.00	67.62	A16S
ATOM	12863	C4	C	A	620	134.646	92.059	30.328	1.00	67.62	A16S
ATOM	12864	N4	C	A	620	135.326	90.941	30.578	1.00	67.62	A16S
ATOM	12865	C5	C	A	620	133.223	92.065	30.383	1.00	67.62	A16S
ATOM	12866	C2*	C	A	620	132.177	95.948	28.202	1.00	62.73	A16S
ATOM	12867	O2*	C	A	620	132.514	97.291	27.927	1.00	62.73	A16S
ATOM	12868	C3*	C	A	620	130.672	95.770	28.315	1.00	62.73	A16S
ATOM	12869	O3*	C	A	620	130.002	96.610	27.399	1.00	62.73	A16S
ATOM	12870	P	A	A	621	129.510	96.019	25.991	1.00	58.04	A16S
ATOM	12871	O1P	A	A	621	128.912	97.126	25.197	1.00	90.10	A16S
ATOM	12872	O2P	A	A	621	128.693	94.817	26.281	1.00	90.10	A16S
ATOM	12873	O5*	A	A	621	130.869	95.591	25.273	1.00	58.04	A16S
ATOM	12874	C5*	A	A	621	131.795	96.587	24.792	1.00	58.04	A16S
ATOM	12875	C4*	A	A	621	133.144	95.963	24.510	1.00	58.04	A16S
ATOM	12876	O4*	A	A	621	133.618	95.328	25.721	1.00	58.04	A16S
ATOM	12877	C1*	A	A	621	134.290	94.126	25.404	1.00	58.04	A16S
ATOM	12878	N9	A	A	621	133.584	93.030	26.076	1.00	90.10	A16S
ATOM	12879	C4	A	A	621	134.111	91.810	26.436	1.00	90.10	A16S
ATOM	12880	N3	A	A	621	135.365	91.369	26.238	1.00	90.10	A16S
ATOM	12881	C2	A	A	621	135.517	90.150	26.737	1.00	90.10	A16S
ATOM	12882	N1	A	A	621	134.629	89.379	27.370	1.00	90.10	A16S
ATOM	12883	C6	A	A	621	133.381	89.853	27.560	1.00	90.10	A16S
ATOM	12884	N6	A	A	621	132.501	89.093	28.212	1.00	90.10	A16S
ATOM	12885	C5	A	A	621	133.085	91.129	27.067	1.00	90.10	A16S
ATOM	12886	N7	A	A	621	131.926	91.893	27.091	1.00	90.10	A16S
ATOM	12887	C8	A	A	621	132.272	93.006	26.492	1.00	90.10	A16S
ATOM	12888	C2*	A	A	621	134.353	94.010	23.878	1.00	58.04	A16S
ATOM	12889	O2*	A	A	621	135.591	94.516	23.411	1.00	58.04	A16S
ATOM	12890	C3*	A	A	621	133.171	94.871	23.451	1.00	58.04	A16S
ATOM	12891	O3*	A	A	621	133.362	95.414	22.150	1.00	58.04	A16S
ATOM	12892	P	A	A	622	132.774	94.641	20.877	1.00	52.04	A16S
ATOM	12893	O1P	A	A	622	133.124	95.450	19.693	1.00	77.04	A16S
ATOM	12894	O2P	A	A	622	131.358	94.303	21.129	1.00	77.04	A16S
ATOM	12895	O5*	A	A	622	133.610	93.283	20.846	1.00	52.04	A16S
ATOM	12896	C5*	A	A	622	134.996	93.287	20.442	1.00	52.04	A16S
ATOM	12897	C4*	A	A	622	135.629	91.919	20.614	1.00	52.04	A16S
ATOM	12898	O4*	A	A	622	135.778	91.589	22.017	1.00	52.04	A16S
ATOM	12899	C1*	A	A	622	135.541	90.201	22.210	1.00	52.04	A16S
ATOM	12900	N9	A	A	622	134.284	90.058	22.943	1.00	77.04	A16S
ATOM	12901	C4	A	A	622	133.837	88.944	23.605	1.00	77.04	A16S
ATOM	12902	N3	A	A	622	134.476	87.775	23.760	1.00	77.04	A16S
ATOM	12903	C2	A	A	622	133.727	86.924	24.452	1.00	77.04	A16S
ATOM	12904	N1	A	A	622	132.501	87.097	24.959	1.00	77.04	A16S
ATOM	12905	C6	A	A	622	131.893	88.289	24.776	1.00	77.04	A16S
ATOM	12906	N6	A	A	622	130.670	88.472	25.266	1.00	77.04	A16S
ATOM	12907	C5	A	A	622	132.582	89.270	24.076	1.00	77.04	A16S
ATOM	12908	N7	A	A	622	132.252	90.570	23.744	1.00	77.04	A16S
ATOM	12909	C8	A	A	622	133.294	90.996	23.081	1.00	77.04	A16S
ATOM	12910	C2*	A	A	622	135.394	89.572	20.827	1.00	52.04	A16S
ATOM	12911	O2*	A	A	622	136.667	89.106	20.422	1.00	52.04	A16S
ATOM	12912	C3*	A	A	622	134.875	90.752	20.015	1.00	52.04	A16S
ATOM	12913	O3*	A	A	622	135.174	90.629	18.649	1.00	52.04	A16S
ATOM	12914	P	C	A	623	133.986	90.419	17.607	1.00	56.35	A16S
ATOM	12915	O1P	C	A	623	134.644	89.820	16.426	1.00	63.61	A16S
ATOM	12916	O2P	C	A	623	133.224	91.677	17.459	1.00	63.61	A16S
ATOM	12917	O5*	C	A	623	133.042	89.339	18.304	1.00	56.35	A16S
ATOM	12918	C5*	C	A	623	133.485	87.976	18.430	1.00	56.35	A16S
ATOM	12919	C4*	C	A	623	132.422	87.114	19.063	1.00	56.35	A16S
ATOM	12920	O4*	C	A	623	132.325	87.422	20.472	1.00	56.35	A16S
ATOM	12921	C1*	C	A	623	130.971	87.358	20.874	1.00	56.35	A16S
ATOM	12922	N1	C	A	623	130.550	88.720	21.230	1.00	63.61	A16S
ATOM	12923	C6	C	A	623	131.319	89.797	20.894	1.00	63.61	A16S
ATOM	12924	C2	C	A	623	129.347	88.898	21.903	1.00	63.61	A16S
ATOM	12925	O2	C	A	623	128.666	87.909	22.182	1.00	63.61	A16S
ATOM	12926	N3	C	A	623	128.951	90.142	22.222	1.00	63.61	A16S
ATOM	12927	C4	C	A	623	129.705	91.187	21.884	1.00	63.61	A16S
ATOM	12928	N4	C	A	623	129.274	92.402	22.216	1.00	63.61	A16S
ATOM	12929	C5	C	A	623	130.934	91.036	21.191	1.00	63.61	A16S



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ATOM	12930	C2* C	A 623	130.162	86.823	19.689	1.00	56.35	A16S
ATOM	12931	O2* C	A 623	130.067	85.418	19.774	1.00	56.35	A16S
ATOM	12932	C3* C	A 623	131.016	87.265	18.511	1.00	56.35	A16S
ATOM	12933	O3* C	A 623	130.803	86.436	17.378	1.00	56.35	A16S
ATOM	12934	P C	A 624	129.591	86.765	16.365	1.00	61.06	A16S
ATOM	12935	O1P C	A 624	129.485	85.663	15.359	1.00	86.58	A16S
ATOM	12936	O2P C	A 624	129.741	88.169	15.891	1.00	86.58	A16S
ATOM	12937	O5* C	A 624	128.299	86.714	17.298	1.00	61.06	A16S
ATOM	12938	C5* C	A 624	127.732	85.462	17.711	1.00	61.06	A16S
ATOM	12939	C4* C	A 624	126.465	85.703	18.485	1.00	61.06	A16S
ATOM	12940	O4* C	A 624	126.790	86.506	19.638	1.00	61.06	A16S
ATOM	12941	C1* C	A 624	125.711	87.367	19.929	1.00	61.06	A16S
ATOM	12942	N1 C	A 624	126.213	88.737	19.978	1.00	86.58	A16S
ATOM	12943	C6 C	A 624	127.253	89.127	19.187	1.00	86.58	A16S
ATOM	12944	C2 C	A 624	125.605	89.644	20.851	1.00	86.58	A16S
ATOM	12945	O2 C	A 624	124.657	89.263	21.563	1.00	86.58	A16S
ATOM	12946	N3 C	A 624	126.059	90.908	20.897	1.00	86.58	A16S
ATOM	12947	C4 C	A 624	127.067	91.281	20.111	1.00	86.58	A16S
ATOM	12948	N4 C	A 624	127.466	92.549	20.171	1.00	86.58	A16S
ATOM	12949	C5 C	A 624	127.706	90.375	19.221	1.00	86.58	A16S
ATOM	12950	C2* C	A 624	124.612	87.155	18.889	1.00	61.06	A16S
ATOM	12951	O2* C	A 624	123.601	86.362	19.470	1.00	61.06	A16S
ATOM	12952	C3* C	A 624	125.378	86.477	17.757	1.00	61.06	A16S
ATOM	12953	O3* C	A 624	124.556	85.585	17.015	1.00	61.06	A16S
ATOM	12954	P G	A 625	123.520	86.167	15.938	1.00	52.29	A16S
ATOM	12955	O1P G	A 625	122.833	85.028	15.266	1.00	79.48	A16S
ATOM	12956	O2P G	A 625	124.228	87.178	15.124	1.00	79.48	A16S
ATOM	12957	O5* G	A 625	122.434	86.923	16.817	1.00	52.29	A16S
ATOM	12958	C5* G	A 625	121.541	86.190	17.663	1.00	52.29	A16S
ATOM	12959	C4* G	A 625	120.507	87.113	18.240	1.00	52.29	A16S
ATOM	12960	O4* G	A 625	121.138	88.046	19.150	1.00	52.29	A16S
ATOM	12961	C1* G	A 625	120.470	89.292	19.078	1.00	52.29	A16S
ATOM	12962	N9 G	A 625	121.438	90.339	18.758	1.00	79.48	A16S
ATOM	12963	C4 G	A 625	121.203	91.692	18.783	1.00	79.48	A16S
ATOM	12964	N3 G	A 625	120.037	92.285	19.105	1.00	79.48	A16S
ATOM	12965	C2 G	A 625	120.121	93.601	19.043	1.00	79.48	A16S
ATOM	12966	N2 G	A 625	119.049	94.353	19.339	1.00	79.48	A16S
ATOM	12967	N1 G	A 625	121.260	94.277	18.691	1.00	79.48	A16S
ATOM	12968	C6 G	A 625	122.469	93.685	18.362	1.00	79.48	A16S
ATOM	12969	O6 G	A 625	123.435	94.389	18.071	1.00	79.48	A16S
ATOM	12970	C5 G	A 625	122.393	92.277	18.423	1.00	79.48	A16S
ATOM	12971	N7 G	A 625	123.359	91.316	18.178	1.00	79.48	A16S
ATOM	12972	C8 G	A 625	122.749	90.182	18.385	1.00	79.48	A16S
ATOM	12973	C2* G	A 625	119.340	89.172	18.053	1.00	52.29	A16S
ATOM	12974	O2* G	A 625	118.131	88.915	18.734	1.00	52.29	A16S
ATOM	12975	C3* G	A 625	119.791	87.983	17.222	1.00	52.29	A16S
ATOM	12976	O3* G	A 625	118.688	87.303	16.641	1.00	52.29	A16S
ATOM	12977	P U	A 626	118.193	87.724	15.178	1.00	64.95	A16S
ATOM	12978	O1P U	A 626	117.222	86.719	14.681	1.00	75.18	A16S
ATOM	12979	O2P U	A 626	119.421	88.003	14.390	1.00	75.18	A16S
ATOM	12980	O5* U	A 626	117.433	89.104	15.430	1.00	64.95	A16S
ATOM	12981	C5* U	A 626	116.232	89.159	16.230	1.00	64.95	A16S
ATOM	12982	C4* U	A 626	115.747	90.588	16.377	1.00	64.95	A16S
ATOM	12983	O4* U	A 626	116.662	91.350	17.203	1.00	64.95	A16S
ATOM	12984	C1* U	A 626	116.762	92.680	16.713	1.00	64.95	A16S
ATOM	12985	N1 U	A 626	118.160	92.925	16.312	1.00	75.18	A16S
ATOM	12986	C6 U	A 626	119.018	91.880	16.050	1.00	75.18	A16S
ATOM	12987	C2 U	A 626	118.594	94.237	16.209	1.00	75.18	A16S
ATOM	12988	O2 U	A 626	117.872	95.197	16.402	1.00	75.18	A16S
ATOM	12989	N3 U	A 626	119.909	94.383	15.855	1.00	75.18	A16S
ATOM	12990	C4 U	A 626	120.808	93.383	15.579	1.00	75.18	A16S
ATOM	12991	O4 U	A 626	121.941	93.679	15.215	1.00	75.18	A16S
ATOM	12992	C5 U	A 626	120.288	92.061	15.695	1.00	75.18	A16S
ATOM	12993	C2* U	A 626	115.774	92.822	15.555	1.00	64.95	A16S
ATOM	12994	O2* U	A 626	114.555	93.347	16.046	1.00	64.95	A16S
ATOM	12995	C3* U	A 626	115.648	91.379	15.088	1.00	64.95	A16S
ATOM	12996	O3* U	A 626	114.427	91.136	14.435	1.00	64.95	A16S
ATOM	12997	P G	A 627	114.349	91.308	12.851	1.00	65.14	A16S
ATOM	12998	O1P G	A 627	112.962	90.939	12.448	1.00	87.74	A16S
ATOM	12999	O2P G	A 627	115.502	90.607	12.246	1.00	87.74	A16S
ATOM	13000	O5* G	A 627	114.558	92.868	12.649	1.00	65.14	A16S
ATOM	13001	C5* G	A 627	113.568	93.780	13.117	1.00	65.14	A16S
ATOM	13002	C4* G	A 627	114.013	95.196	12.899	1.00	65.14	A16S
ATOM	13003	O4* G	A 627	115.164	95.486	13.724	1.00	65.14	A16S
ATOM	13004	C1* G	A 627	115.924	96.502	13.104	1.00	65.14	A16S
ATOM	13005	N9 G	A 627	117.309	96.071	13.001	1.00	87.74	A16S
ATOM	13006	C4 G	A 627	118.387	96.898	12.841	1.00	87.74	A16S



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ATOM	13007	N3	G	A	627	118.345	98.242	12.766	1.00	87.74	A16S
ATOM	13008	C2	G	A	627	119.543	98.760	12.596	1.00	87.74	A16S
ATOM	13009	N2	G	A	627	119.688	100.084	12.493	1.00	87.74	A16S
ATOM	13010	N1	G	A	627	120.687	98.022	12.512	1.00	87.74	A16S
ATOM	13011	C6	G	A	627	120.749	96.638	12.583	1.00	87.74	A16S
ATOM	13012	O6	G	A	627	121.832	96.070	12.489	1.00	87.74	A16S
ATOM	13013	C5	G	A	627	119.475	96.069	12.762	1.00	87.74	A16S
ATOM	13014	N7	G	A	627	119.092	94.740	12.881	1.00	87.74	A16S
ATOM	13015	C8	G	A	627	117.797	94.791	13.024	1.00	87.74	A16S
ATOM	13016	C2*	G	A	627	115.317	96.789	11.730	1.00	65.14	A16S
ATOM	13017	O2*	G	A	627	114.541	97.969	11.784	1.00	65.14	A16S
ATOM	13018	C3*	G	A	627	114.467	95.551	11.498	1.00	65.14	A16S
ATOM	13019	O3*	G	A	627	113.375	95.856	10.660	1.00	65.14	A16S
ATOM	13020	P	G	A	628	113.604	95.945	9.078	1.00	78.68	A16S
ATOM	13021	O1P	G	A	628	112.285	96.136	8.425	1.00	90.75	A16S
ATOM	13022	O2P	G	A	628	114.454	94.793	8.694	1.00	90.75	A16S
ATOM	13023	O5*	G	A	628	114.466	97.270	8.893	1.00	78.68	A16S
ATOM	13024	C5*	G	A	628	113.924	98.550	9.230	1.00	78.68	A16S
ATOM	13025	C4*	G	A	628	114.978	99.617	9.074	1.00	78.68	A16S
ATOM	13026	O4*	G	A	628	116.056	99.401	10.025	1.00	78.68	A16S
ATOM	13027	C1*	G	A	628	117.287	99.819	9.453	1.00	78.68	A16S
ATOM	13028	N9	G	A	628	118.195	98.673	9.399	1.00	90.75	A16S
ATOM	13029	C4	G	A	628	119.558	98.714	9.189	1.00	90.75	A16S
ATOM	13030	N3	G	A	628	120.308	99.828	9.045	1.00	90.75	A16S
ATOM	13031	C2	G	A	628	121.579	99.542	8.818	1.00	90.75	A16S
ATOM	13032	N2	G	A	628	122.469	100.535	8.663	1.00	90.75	A16S
ATOM	13033	N1	G	A	628	122.073	98.266	8.729	1.00	90.75	A16S
ATOM	13034	C6	G	A	628	121.321	97.106	8.869	1.00	90.75	A16S
ATOM	13035	O6	G	A	628	121.862	96.006	8.748	1.00	90.75	A16S
ATOM	13036	C5	G	A	628	119.959	97.397	9.132	1.00	90.75	A16S
ATOM	13037	N7	G	A	628	118.884	96.545	9.344	1.00	90.75	A16S
ATOM	13038	C8	G	A	628	117.863	97.343	9.504	1.00	90.75	A16S
ATOM	13039	C2*	G	A	628	116.985	100.364	8.053	1.00	78.68	A16S
ATOM	13040	O2*	G	A	628	116.861	101.768	8.112	1.00	78.68	A16S
ATOM	13041	C3*	G	A	628	115.670	99.670	7.723	1.00	78.68	A16S
ATOM	13042	O3*	G	A	628	114.897	100.368	6.754	1.00	78.68	A16S
ATOM	13043	P	G	A	629	115.054	99.993	5.200	1.00	86.76	A16S
ATOM	13044	O1P	G	A	629	113.924	100.631	4.483	1.00	102.85	A16S
ATOM	13045	O2P	G	A	629	115.264	98.533	5.068	1.00	102.85	A16S
ATOM	13046	O5*	G	A	629	116.410	100.715	4.786	1.00	86.76	A16S
ATOM	13047	C5*	G	A	629	116.562	102.137	4.965	1.00	86.76	A16S
ATOM	13048	C4*	G	A	629	117.987	102.558	4.699	1.00	86.76	A16S
ATOM	13049	O4*	G	A	629	118.850	102.040	5.745	1.00	86.76	A16S
ATOM	13050	C1*	G	A	629	120.101	101.655	5.191	1.00	86.76	A16S
ATOM	13051	N9	G	A	629	120.250	100.207	5.347	1.00	102.85	A16S
ATOM	13052	C4	G	A	629	121.380	99.462	5.086	1.00	102.85	A16S
ATOM	13053	N3	G	A	629	122.561	99.942	4.653	1.00	102.85	A16S
ATOM	13054	C2	G	A	629	123.444	98.979	4.463	1.00	102.85	A16S
ATOM	13055	N2	G	A	629	124.669	99.283	4.015	1.00	102.85	A16S
ATOM	13056	N1	G	A	629	123.191	97.647	4.693	1.00	102.85	A16S
ATOM	13057	C6	G	A	629	121.985	97.129	5.146	1.00	102.85	A16S
ATOM	13058	O6	G	A	629	121.864	95.912	5.325	1.00	102.85	A16S
ATOM	13059	C5	G	A	629	121.024	98.153	5.343	1.00	102.85	A16S
ATOM	13060	N7	G	A	629	119.705	98.075	5.767	1.00	102.85	A16S
ATOM	13061	C8	G	A	629	119.288	99.313	5.759	1.00	102.85	A16S
ATOM	13062	C2*	G	A	629	120.085	102.057	3.715	1.00	86.76	A16S
ATOM	13063	O2*	G	A	629	120.631	103.352	3.557	1.00	86.76	A16S
ATOM	13064	C3*	G	A	629	118.597	102.026	3.413	1.00	86.76	A16S
ATOM	13065	O3*	G	A	629	118.268	102.794	2.274	1.00	86.76	A16S
ATOM	13066	P	G	A	630	118.330	102.103	0.826	1.00	128.72	A16S
ATOM	13067	O1P	G	A	630	117.714	103.050	-0.129	1.00	107.66	A16S
ATOM	13068	O2P	G	A	630	117.807	100.712	0.926	1.00	107.66	A16S
ATOM	13069	O5*	G	A	630	119.889	102.021	0.516	1.00	128.72	A16S
ATOM	13070	C5*	G	A	630	120.700	103.214	0.490	1.00	128.72	A16S
ATOM	13071	C4*	G	A	630	122.136	102.865	0.174	1.00	128.72	A16S
ATOM	13072	O4*	G	A	630	122.673	102.048	1.248	1.00	128.72	A16S
ATOM	13073	C1*	G	A	630	123.486	101.018	0.712	1.00	128.72	A16S
ATOM	13074	N9	G	A	630	122.830	99.747	1.012	1.00	107.66	A16S
ATOM	13075	C4	G	A	630	123.423	98.510	1.142	1.00	107.66	A16S
ATOM	13076	N3	G	A	630	124.743	98.239	1.033	1.00	107.66	A16S
ATOM	13077	C2	G	A	630	124.994	96.950	1.197	1.00	107.66	A16S
ATOM	13078	N2	G	A	630	126.251	96.496	1.120	1.00	107.66	A16S
ATOM	13079	N1	G	A	630	124.031	96.009	1.447	1.00	107.66	A16S
ATOM	13080	C6	G	A	630	122.671	96.268	1.563	1.00	107.66	A16S
ATOM	13081	O6	G	A	630	121.886	95.347	1.786	1.00	107.66	A16S
ATOM	13082	C5	G	A	630	122.386	97.636	1.393	1.00	107.66	A16S
ATOM	13083	N7	G	A	630	121.171	98.306	1.429	1.00	107.66	A16S



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ATOM	13084	C8	G	A	630	121.482	99.551	1.202	1.00107.66	A16S
ATOM	13085	C2*	G	A	630	123.609	101.270	-0.795	1.00128.72	A16S
ATOM	13086	O2*	G	A	630	124.764	102.036	-1.080	1.00128.72	A16S
ATOM	13087	C3*	G	A	630	122.324	102.033	-1.084	1.00128.72	A16S
ATOM	13088	O3*	G	A	630	122.405	102.838	-2.254	1.00128.72	A16S
ATOM	13089	P	G	A	631	121.789	102.291	-3.634	1.00116.87	A16S
ATOM	13090	O1P	G	A	631	120.474	101.659	-3.325	1.00151.27	A16S
ATOM	13091	O2P	G	A	631	121.860	103.377	-4.645	1.00151.27	A16S
ATOM	13092	O5*	G	A	631	122.791	101.127	-4.062	1.00116.87	A16S
ATOM	13093	C5*	G	A	631	124.220	101.351	-4.116	1.00116.87	A16S
ATOM	13094	C4*	G	A	631	124.954	100.036	-4.260	1.00116.87	A16S
ATOM	13095	O4*	G	A	631	124.806	99.258	-3.045	1.00116.87	A16S
ATOM	13096	C1*	G	A	631	124.619	97.888	-3.366	1.00116.87	A16S
ATOM	13097	N9	G	A	631	123.297	97.491	-2.873	1.00151.27	A16S
ATOM	13098	C4	G	A	631	122.883	96.221	-2.525	1.00151.27	A16S
ATOM	13099	N3	G	A	631	123.625	95.095	-2.590	1.00151.27	A16S
ATOM	13100	C2	G	A	631	122.946	94.031	-2.189	1.00151.27	A16S
ATOM	13101	N2	G	A	631	123.531	92.826	-2.198	1.00151.27	A16S
ATOM	13102	N1	G	A	631	121.642	94.069	-1.751	1.00151.27	A16S
ATOM	13103	C6	G	A	631	120.858	95.215	-1.671	1.00151.27	A16S
ATOM	13104	O6	G	A	631	119.691	95.139	-1.256	1.00151.27	A16S
ATOM	13105	C5	G	A	631	121.572	96.365	-2.106	1.00151.27	A16S
ATOM	13106	N7	G	A	631	121.168	97.691	-2.195	1.00151.27	A16S
ATOM	13107	C8	G	A	631	122.217	98.319	-2.654	1.00151.27	A16S
ATOM	13108	C2*	G	A	631	124.798	97.745	-4.882	1.00116.87	A16S
ATOM	13109	O2*	G	A	631	126.142	97.395	-5.165	1.00116.87	A16S
ATOM	13110	C3*	G	A	631	124.431	99.143	-5.369	1.00116.87	A16S
ATOM	13111	O3*	G	A	631	125.032	99.486	-6.609	1.00116.87	A16S
ATOM	13112	P	A	A	632	124.113	100.017	-7.822	1.00 75.78	A16S
ATOM	13113	O1P	A	A	632	123.951	101.496	-7.692	1.00113.82	A16S
ATOM	13114	O2P	A	A	632	122.901	99.152	-7.901	1.00113.82	A16S
ATOM	13115	O5*	A	A	632	125.005	99.738	-9.112	1.00 75.78	A16S
ATOM	13116	C5*	A	A	632	126.339	100.269	-9.216	1.00 75.78	A16S
ATOM	13117	C4*	A	A	632	127.310	99.170	-9.557	1.00 75.78	A16S
ATOM	13118	O4*	A	A	632	127.440	98.272	-8.427	1.00 75.78	A16S
ATOM	13119	C1*	A	A	632	127.588	96.941	-8.890	1.00 75.78	A16S
ATOM	13120	N9	A	A	632	126.478	96.135	-8.372	1.00113.82	A16S
ATOM	13121	C4	A	A	632	126.421	94.761	-8.357	1.00113.82	A16S
ATOM	13122	N3	A	A	632	127.364	93.900	-8.780	1.00113.82	A16S
ATOM	13123	C2	A	A	632	126.952	92.643	-8.632	1.00113.82	A16S
ATOM	13124	N1	A	A	632	125.792	92.182	-8.153	1.00113.82	A16S
ATOM	13125	C6	A	A	632	124.865	93.072	-7.741	1.00113.82	A16S
ATOM	13126	N6	A	A	632	123.704	92.609	-7.282	1.00113.82	A16S
ATOM	13127	C5	A	A	632	125.183	94.439	-7.833	1.00113.82	A16S
ATOM	13128	N7	A	A	632	124.479	95.586	-7.498	1.00113.82	A16S
ATOM	13129	C8	A	A	632	125.288	96.560	-7.834	1.00113.82	A16S
ATOM	13130	C2*	A	A	632	127.608	96.985	-10.419	1.00 75.78	A16S
ATOM	13131	O2*	A	A	632	128.938	97.012	-10.874	1.00 75.78	A16S
ATOM	13132	C3*	A	A	632	126.876	98.285	-10.705	1.00 75.78	A16S
ATOM	13133	O3*	A	A	632	127.220	98.841	-11.960	1.00 75.78	A16S
ATOM	13134	P	G	A	633	126.199	98.690	-13.196	1.00 64.75	A16S
ATOM	13135	O1P	G	A	633	126.866	99.197	-14.433	1.00 82.21	A16S
ATOM	13136	O2P	G	A	633	124.881	99.241	-12.797	1.00 82.21	A16S
ATOM	13137	O5*	G	A	633	126.035	97.120	-13.372	1.00 64.75	A16S
ATOM	13138	C5*	G	A	633	127.177	96.281	-13.561	1.00 64.75	A16S
ATOM	13139	C4*	G	A	633	126.759	94.838	-13.506	1.00 64.75	A16S
ATOM	13140	O4*	G	A	633	126.451	94.445	-12.150	1.00 64.75	A16S
ATOM	13141	C1*	G	A	633	125.394	93.505	-12.156	1.00 64.75	A16S
ATOM	13142	N9	G	A	633	124.289	94.066	-11.392	1.00 82.21	A16S
ATOM	13143	C4	G	A	633	123.243	93.369	-10.857	1.00 82.21	A16S
ATOM	13144	N3	G	A	633	123.062	92.035	-10.935	1.00 82.21	A16S
ATOM	13145	C2	G	A	633	121.968	91.656	-10.313	1.00 82.21	A16S
ATOM	13146	N2	G	A	633	121.641	90.359	-10.269	1.00 82.21	A16S
ATOM	13147	N1	G	A	633	121.118	92.523	-9.681	1.00 82.21	A16S
ATOM	13148	C6	G	A	633	121.291	93.902	-9.596	1.00 82.21	A16S
ATOM	13149	O6	G	A	633	120.462	94.600	-8.997	1.00 82.21	A16S
ATOM	13150	C5	G	A	633	122.453	94.313	-10.243	1.00 82.21	A16S
ATOM	13151	N7	G	A	633	122.993	95.578	-10.384	1.00 82.21	A16S
ATOM	13152	C8	G	A	633	124.081	95.385	-11.072	1.00 82.21	A16S
ATOM	13153	C2*	G	A	633	125.004	93.251	-13.612	1.00 64.75	A16S
ATOM	13154	O2*	G	A	633	125.666	92.097	-14.098	1.00 64.75	A16S
ATOM	13155	C3*	G	A	633	125.500	94.517	-14.279	1.00 64.75	A16S
ATOM	13156	O3*	G	A	633	125.795	94.320	-15.630	1.00 64.75	A16S
ATOM	13157	P	C	A	634	124.855	94.987	-16.721	1.00 43.78	A16S
ATOM	13158	O1P	C	A	634	125.584	94.975	-18.018	1.00 73.46	A16S
ATOM	13159	O2P	C	A	634	124.378	96.281	-16.144	1.00 73.46	A16S
ATOM	13160	O5*	C	A	634	123.636	93.968	-16.810	1.00 43.78	A16S



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ATOM	13161	C5*	C	A	634	123.859	92.657	-17.327	1.00	43.78	A16S
ATOM	13162	C4*	C	A	634	122.843	91.684	-16.798	1.00	43.78	A16S
ATOM	13163	O4*	C	A	634	122.851	91.695	-15.353	1.00	43.78	A16S
ATOM	13164	C1*	C	A	634	121.564	91.361	-14.871	1.00	43.78	A16S
ATOM	13165	N1	C	A	634	121.044	92.484	-14.071	1.00	73.46	A16S
ATOM	13166	C6	C	A	634	121.647	93.710	-14.095	1.00	73.46	A16S
ATOM	13167	C2	C	A	634	119.892	92.281	-13.302	1.00	73.46	A16S
ATOM	13168	O2	C	A	634	119.387	91.146	-13.259	1.00	73.46	A16S
ATOM	13169	N3	C	A	634	119.359	93.320	-12.627	1.00	73.46	A16S
ATOM	13170	C4	C	A	634	119.936	94.518	-12.684	1.00	73.46	A16S
ATOM	13171	N4	C	A	634	119.351	95.521	-12.029	1.00	73.46	A16S
ATOM	13172	C5	C	A	634	121.131	94.744	-13.422	1.00	73.46	A16S
ATOM	13173	C2*	C	A	634	120.679	91.107	-16.089	1.00	43.78	A16S
ATOM	13174	O2*	C	A	634	120.681	89.721	-16.374	1.00	43.78	A16S
ATOM	13175	C3*	C	A	634	121.394	91.915	-17.158	1.00	43.78	A16S
ATOM	13176	O3*	C	A	634	121.095	91.431	-18.447	1.00	43.78	A16S
ATOM	13177	P	G	A	635	119.863	92.067	-19.250	1.00	50.73	A16S
ATOM	13178	O1P	G	A	635	119.848	91.539	-20.648	1.00	57.62	A16S
ATOM	13179	O2P	G	A	635	119.891	93.527	-19.017	1.00	57.62	A16S
ATOM	13180	O5*	G	A	635	118.586	91.481	-18.510	1.00	50.73	A16S
ATOM	13181	C5*	G	A	635	118.250	90.098	-18.641	1.00	50.73	A16S
ATOM	13182	C4*	G	A	635	116.871	89.843	-18.102	1.00	50.73	A16S
ATOM	13183	O4*	G	A	635	116.854	90.099	-16.675	1.00	50.73	A16S
ATOM	13184	C1*	G	A	635	115.579	90.580	-16.300	1.00	50.73	A16S
ATOM	13185	N9	G	A	635	115.738	91.889	-15.687	1.00	57.62	A16S
ATOM	13186	C4	G	A	635	114.787	92.563	-14.980	1.00	57.62	A16S
ATOM	13187	N3	G	A	635	113.560	92.108	-14.695	1.00	57.62	A16S
ATOM	13188	C2	G	A	635	112.860	92.988	-14.033	1.00	57.62	A16S
ATOM	13189	N2	G	A	635	111.606	92.689	-13.680	1.00	57.62	A16S
ATOM	13190	N1	G	A	635	113.335	94.226	-13.673	1.00	57.62	A16S
ATOM	13191	C6	G	A	635	114.602	94.712	-13.964	1.00	57.62	A16S
ATOM	13192	O6	G	A	635	114.935	95.856	-13.614	1.00	57.62	A16S
ATOM	13193	C5	G	A	635	115.354	93.773	-14.666	1.00	57.62	A16S
ATOM	13194	N7	G	A	635	116.652	93.845	-15.135	1.00	57.62	A16S
ATOM	13195	C8	G	A	635	116.839	92.700	-15.730	1.00	57.62	A16S
ATOM	13196	C2*	G	A	635	114.715	90.657	-17.559	1.00	50.73	A16S
ATOM	13197	O2*	G	A	635	113.943	89.482	-17.622	1.00	50.73	A16S
ATOM	13198	C3*	G	A	635	115.764	90.720	-18.660	1.00	50.73	A16S
ATOM	13199	O3*	G	A	635	115.276	90.212	-19.894	1.00	50.73	A16S
ATOM	13200	P	U	A	636	114.638	91.224	-20.963	1.00	60.54	A16S
ATOM	13201	O1P	U	A	636	114.152	90.443	-22.131	1.00	63.31	A16S
ATOM	13202	O2P	U	A	636	115.613	92.307	-21.162	1.00	63.31	A16S
ATOM	13203	O5*	U	A	636	113.383	91.835	-20.197	1.00	60.54	A16S
ATOM	13204	C5*	U	A	636	112.307	90.973	-19.774	1.00	60.54	A16S
ATOM	13205	C4*	U	A	636	111.195	91.766	-19.127	1.00	60.54	A16S
ATOM	13206	O4*	U	A	636	111.532	92.123	-17.762	1.00	60.54	A16S
ATOM	13207	C1*	U	A	636	110.957	93.381	-17.451	1.00	60.54	A16S
ATOM	13208	N1	U	A	636	112.031	94.349	-17.164	1.00	63.31	A16S
ATOM	13209	C6	U	A	636	113.287	94.228	-17.706	1.00	63.31	A16S
ATOM	13210	C2	U	A	636	111.721	95.420	-16.351	1.00	63.31	A16S
ATOM	13211	O2	U	A	636	110.639	95.542	-15.812	1.00	63.31	A16S
ATOM	13212	N3	U	A	636	112.723	96.347	-16.192	1.00	63.31	A16S
ATOM	13213	C4	U	A	636	113.978	96.314	-16.744	1.00	63.31	A16S
ATOM	13214	O4	U	A	636	114.706	97.312	-16.659	1.00	63.31	A16S
ATOM	13215	C5	U	A	636	114.242	95.146	-17.529	1.00	63.31	A16S
ATOM	13216	C2*	U	A	636	110.139	93.819	-18.668	1.00	60.54	A16S
ATOM	13217	O2*	U	A	636	108.814	93.348	-18.533	1.00	60.54	A16S
ATOM	13218	C3*	U	A	636	110.847	93.082	-19.788	1.00	60.54	A16S
ATOM	13219	O3*	U	A	636	110.022	92.916	-20.919	1.00	60.54	A16S
ATOM	13220	P	G	A	637	109.958	94.087	-22.007	1.00	61.17	A16S
ATOM	13221	O1P	G	A	637	109.178	93.596	-23.171	1.00	65.21	A16S
ATOM	13222	O2P	G	A	637	111.333	94.596	-22.212	1.00	65.21	A16S
ATOM	13223	O5*	G	A	637	109.137	95.221	-21.257	1.00	61.17	A16S
ATOM	13224	C5*	G	A	637	107.758	95.022	-20.943	1.00	61.17	A16S
ATOM	13225	C4*	G	A	637	107.201	96.236	-20.261	1.00	61.17	A16S
ATOM	13226	O4*	G	A	637	107.815	96.370	-18.957	1.00	61.17	A16S
ATOM	13227	C1*	G	A	637	107.939	97.744	-18.629	1.00	61.17	A16S
ATOM	13228	N9	G	A	637	109.351	98.036	-18.426	1.00	65.21	A16S
ATOM	13229	C4	G	A	637	109.870	99.132	-17.795	1.00	65.21	A16S
ATOM	13230	N3	G	A	637	109.161	100.117	-17.209	1.00	65.21	A16S
ATOM	13231	C2	G	A	637	109.948	101.051	-16.699	1.00	65.21	A16S
ATOM	13232	N2	G	A	637	109.413	102.107	-16.073	1.00	65.21	A16S
ATOM	13233	N1	G	A	637	111.322	101.019	-16.767	1.00	65.21	A16S
ATOM	13234	C6	G	A	637	112.067	100.011	-17.375	1.00	65.21	A16S
ATOM	13235	O6	G	A	637	113.304	100.078	-17.398	1.00	65.21	A16S
ATOM	13236	C5	G	A	637	111.237	99.004	-17.910	1.00	65.21	A16S
ATOM	13237	N7	G	A	637	111.568	97.836	-18.575	1.00	65.21	A16S



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ATOM	13238	C8	G	A	637	110.418	97.291	-18.856	1.00	65.21	A16S
ATOM	13239	C2*	G	A	637	107.359	98.552	-19.791	1.00	61.17	A16S
ATOM	13240	O2*	G	A	637	106.017	98.884	-19.506	1.00	61.17	A16S
ATOM	13241	C3*	G	A	637	107.476	97.563	-20.941	1.00	61.17	A16S
ATOM	13242	O3*	G	A	637	106.565	97.838	-21.990	1.00	61.17	A16S
ATOM	13243	P	G	A	638	106.989	98.873	-23.145	1.00	60.17	A16S
ATOM	13244	O1P	G	A	638	108.361	98.514	-23.577	1.00	69.48	A16S
ATOM	13245	O2P	G	A	638	105.898	98.908	-24.164	1.00	69.48	A16S
ATOM	13246	O5*	G	A	638	107.063	100.275	-22.373	1.00	60.17	A16S
ATOM	13247	C5*	G	A	638	105.886	100.837	-21.742	1.00	60.17	A16S
ATOM	13248	C4*	G	A	638	106.203	102.157	-21.069	1.00	60.17	A16S
ATOM	13249	O4*	G	A	638	107.000	101.954	-19.874	1.00	60.17	A16S
ATOM	13250	C1*	G	A	638	107.887	103.058	-19.691	1.00	60.17	A16S
ATOM	13251	N9	G	A	638	109.263	102.574	-19.786	1.00	69.48	A16S
ATOM	13252	C4	G	A	638	110.407	103.237	-19.388	1.00	69.48	A16S
ATOM	13253	N3	G	A	638	110.462	104.431	-18.763	1.00	69.48	A16S
ATOM	13254	C2	G	A	638	111.710	104.827	-18.567	1.00	69.48	A16S
ATOM	13255	N2	G	A	638	111.958	105.985	-17.962	1.00	69.48	A16S
ATOM	13256	N1	G	A	638	112.810	104.117	-18.952	1.00	69.48	A16S
ATOM	13257	C6	G	A	638	112.780	102.888	-19.596	1.00	69.48	A16S
ATOM	13258	O6	G	A	638	113.839	102.335	-19.922	1.00	69.48	A16S
ATOM	13259	C5	G	A	638	111.450	102.441	-19.804	1.00	69.48	A16S
ATOM	13260	N7	G	A	638	110.978	101.279	-20.399	1.00	69.48	A16S
ATOM	13261	C8	G	A	638	109.681	101.395	-20.354	1.00	69.48	A16S
ATOM	13262	C2*	G	A	638	107.626	104.047	-20.828	1.00	60.17	A16S
ATOM	13263	O2*	G	A	638	106.785	105.110	-20.429	1.00	60.17	A16S
ATOM	13264	C3*	G	A	638	107.012	103.142	-21.882	1.00	60.17	A16S
ATOM	13265	O3*	G	A	638	106.245	103.866	-22.804	1.00	60.17	A16S
ATOM	13266	P	G	A	639	106.958	104.433	-24.119	1.00	60.56	A16S
ATOM	13267	O1P	G	A	639	107.761	103.334	-24.737	1.00	56.65	A16S
ATOM	13268	O2P	G	A	639	105.890	105.080	-24.917	1.00	56.65	A16S
ATOM	13269	O5*	G	A	639	107.936	105.556	-23.531	1.00	60.56	A16S
ATOM	13270	C5*	G	A	639	107.391	106.725	-22.893	1.00	60.56	A16S
ATOM	13271	C4*	G	A	639	108.478	107.606	-22.312	1.00	60.56	A16S
ATOM	13272	O4*	G	A	639	109.284	106.855	-21.369	1.00	60.56	A16S
ATOM	13273	C1*	G	A	639	110.588	107.428	-21.291	1.00	60.56	A16S
ATOM	13274	N9	G	A	639	111.583	106.411	-21.636	1.00	56.65	A16S
ATOM	13275	C4	G	A	639	112.955	106.523	-21.511	1.00	56.65	A16S
ATOM	13276	N3	G	A	639	113.627	107.586	-21.033	1.00	56.65	A16S
ATOM	13277	C2	G	A	639	114.929	107.393	-21.060	1.00	56.65	A16S
ATOM	13278	N2	G	A	639	115.748	108.343	-20.634	1.00	56.65	A16S
ATOM	13279	N1	G	A	639	115.525	106.252	-21.509	1.00	56.65	A16S
ATOM	13280	C6	G	A	639	114.856	105.145	-21.999	1.00	56.65	A16S
ATOM	13281	O6	G	A	639	115.489	104.160	-22.370	1.00	56.65	A16S
ATOM	13282	C5	G	A	639	113.462	105.336	-21.989	1.00	56.65	A16S
ATOM	13283	N7	G	A	639	112.439	104.491	-22.398	1.00	56.65	A16S
ATOM	13284	C8	G	A	639	111.346	105.165	-22.167	1.00	56.65	A16S
ATOM	13285	C2*	G	A	639	110.624	108.603	-22.265	1.00	60.56	A16S
ATOM	13286	O2*	G	A	639	110.368	109.794	-21.548	1.00	60.56	A16S
ATOM	13287	C3*	G	A	639	109.505	108.238	-23.233	1.00	60.56	A16S
ATOM	13288	O3*	G	A	639	109.024	109.394	-23.885	1.00	60.56	A16S
ATOM	13289	P	A	A	640	109.717	109.867	-25.259	1.00	54.25	A16S
ATOM	13290	O1P	A	A	640	108.915	111.010	-25.802	1.00	50.85	A16S
ATOM	13291	O2P	A	A	640	109.923	108.644	-26.090	1.00	50.85	A16S
ATOM	13292	O5*	A	A	640	111.136	110.428	-24.798	1.00	54.25	A16S
ATOM	13293	C5*	A	A	640	111.220	111.541	-23.890	1.00	54.25	A16S
ATOM	13294	C4*	A	A	640	112.654	111.977	-23.714	1.00	54.25	A16S
ATOM	13295	O4*	A	A	640	113.393	110.991	-22.957	1.00	54.25	A16S
ATOM	13296	C1*	A	A	640	114.726	110.925	-23.431	1.00	54.25	A16S
ATOM	13297	N9	A	A	640	114.977	109.558	-23.903	1.00	50.85	A16S
ATOM	13298	C4	A	A	640	116.195	108.943	-24.061	1.00	50.85	A16S
ATOM	13299	N3	A	A	640	117.408	109.464	-23.831	1.00	50.85	A16S
ATOM	13300	C2	A	A	640	118.345	108.565	-24.055	1.00	50.85	A16S
ATOM	13301	N1	A	A	640	118.224	107.298	-24.450	1.00	50.85	A16S
ATOM	13302	C6	A	A	640	116.990	106.806	-24.671	1.00	50.85	A16S
ATOM	13303	N6	A	A	640	116.856	105.530	-25.056	1.00	50.85	A16S
ATOM	13304	C5	A	A	640	115.915	107.656	-24.477	1.00	50.85	A16S
ATOM	13305	N7	A	A	640	114.552	107.461	-24.603	1.00	50.85	A16S
ATOM	13306	C8	A	A	640	114.040	108.617	-24.258	1.00	50.85	A16S
ATOM	13307	C2*	A	A	640	114.885	112.001	-24.505	1.00	54.25	A16S
ATOM	13308	O2*	A	A	640	115.355	113.175	-23.873	1.00	54.25	A16S
ATOM	13309	C3*	A	A	640	113.453	112.173	-24.988	1.00	54.25	A16S
ATOM	13310	O3*	A	A	640	113.231	113.474	-25.503	1.00	54.25	A16S
ATOM	13311	P	U	A	641	113.275	113.719	-27.089	1.00	60.70	A16S
ATOM	13312	O1P	U	A	641	113.040	115.175	-27.290	1.00	66.05	A16S
ATOM	13313	O2P	U	A	641	112.400	112.724	-27.770	1.00	66.05	A16S
ATOM	13314	O5*	U	A	641	114.782	113.391	-27.469	1.00	60.70	A16S



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ATOM	13315	C5*	U	A	641	115.858	114.080	-26.817	1.00	60.70	A16S
ATOM	13316	C4*	U	A	641	117.169	113.710	-27.453	1.00	60.70	A16S
ATOM	13317	O4*	U	A	641	117.514	112.338	-27.119	1.00	60.70	A16S
ATOM	13318	C1*	U	A	641	117.763	111.611	-28.299	1.00	60.70	A16S
ATOM	13319	N1	U	A	641	117.242	110.251	-28.106	1.00	66.05	A16S
ATOM	13320	C6	U	A	641	115.901	110.006	-28.173	1.00	66.05	A16S
ATOM	13321	C2	U	A	641	118.139	109.224	-27.873	1.00	66.05	A16S
ATOM	13322	O2	U	A	641	119.340	109.396	-27.747	1.00	66.05	A16S
ATOM	13323	N3	U	A	641	117.570	107.980	-27.779	1.00	66.05	A16S
ATOM	13324	C4	U	A	641	116.230	107.676	-27.874	1.00	66.05	A16S
ATOM	13325	O4	U	A	641	115.869	106.506	-27.862	1.00	66.05	A16S
ATOM	13326	C5	U	A	641	115.385	108.790	-28.066	1.00	66.05	A16S
ATOM	13327	C2*	U	A	641	117.068	112.377	-29.429	1.00	60.70	A16S
ATOM	13328	O2*	U	A	641	117.719	112.167	-30.660	1.00	60.70	A16S
ATOM	13329	C3*	U	A	641	117.200	113.822	-28.969	1.00	60.70	A16S
ATOM	13330	O3*	U	A	641	118.453	114.339	-29.367	1.00	60.70	A16S
ATOM	13331	P	A	A	642	118.558	115.853	-29.882	1.00	55.07	A16S
ATOM	13332	O1P	A	A	642	117.840	116.749	-28.942	1.00	50.45	A16S
ATOM	13333	O2P	A	A	642	118.180	115.853	-31.312	1.00	50.45	A16S
ATOM	13334	O5*	A	A	642	120.115	116.149	-29.768	1.00	55.07	A16S
ATOM	13335	C5*	A	A	642	120.601	117.444	-29.412	1.00	55.07	A16S
ATOM	13336	C4*	A	A	642	121.866	117.306	-28.602	1.00	55.07	A16S
ATOM	13337	O4*	A	A	642	121.551	116.767	-27.293	1.00	55.07	A16S
ATOM	13338	C1*	A	A	642	122.597	115.909	-26.863	1.00	55.07	A16S
ATOM	13339	N9	A	A	642	122.035	114.567	-26.704	1.00	50.45	A16S
ATOM	13340	C4	A	A	642	122.630	113.502	-26.081	1.00	50.45	A16S
ATOM	13341	N3	A	A	642	123.821	113.484	-25.470	1.00	50.45	A16S
ATOM	13342	C2	A	A	642	124.073	112.273	-24.997	1.00	50.45	A16S
ATOM	13343	N1	A	A	642	123.328	111.158	-25.061	1.00	50.45	A16S
ATOM	13344	C6	A	A	642	122.139	111.218	-25.688	1.00	50.45	A16S
ATOM	13345	N6	A	A	642	121.398	110.115	-25.771	1.00	50.45	A16S
ATOM	13346	C5	A	A	642	121.753	112.443	-26.226	1.00	50.45	A16S
ATOM	13347	N7	A	A	642	120.617	112.833	-26.914	1.00	50.45	A16S
ATOM	13348	C8	A	A	642	120.827	114.099	-27.168	1.00	50.45	A16S
ATOM	13349	C2*	A	A	642	123.692	115.951	-27.933	1.00	55.07	A16S
ATOM	13350	O2*	A	A	642	124.642	116.946	-27.619	1.00	55.07	A16S
ATOM	13351	C3*	A	A	642	122.894	116.340	-29.161	1.00	55.07	A16S
ATOM	13352	O3*	A	A	642	123.696	116.935	-30.145	1.00	55.07	A16S
ATOM	13353	P	C	A	643	124.175	116.052	-31.389	1.00	49.79	A16S
ATOM	13354	O1P	C	A	643	123.034	115.215	-31.849	1.00	52.92	A16S
ATOM	13355	O2P	C	A	643	124.835	116.965	-32.342	1.00	52.92	A16S
ATOM	13356	O5*	C	A	643	125.269	115.082	-30.755	1.00	49.79	A16S
ATOM	13357	C5*	C	A	643	126.444	115.607	-30.123	1.00	49.79	A16S
ATOM	13358	C4*	C	A	643	127.212	114.500	-29.445	1.00	49.79	A16S
ATOM	13359	O4*	C	A	643	126.447	113.998	-28.322	1.00	49.79	A16S
ATOM	13360	C1*	C	A	643	126.669	112.598	-28.174	1.00	49.79	A16S
ATOM	13361	N1	C	A	643	125.376	111.902	-28.349	1.00	52.92	A16S
ATOM	13362	C6	C	A	643	124.427	112.414	-29.188	1.00	52.92	A16S
ATOM	13363	C2	C	A	643	125.128	110.707	-27.649	1.00	52.92	A16S
ATOM	13364	O2	C	A	643	126.003	110.244	-26.897	1.00	52.92	A16S
ATOM	13365	N3	C	A	643	123.940	110.087	-27.813	1.00	52.92	A16S
ATOM	13366	C4	C	A	643	123.022	110.605	-28.636	1.00	52.92	A16S
ATOM	13367	N4	C	A	643	121.857	109.965	-28.767	1.00	52.92	A16S
ATOM	13368	C5	C	A	643	123.252	111.804	-29.360	1.00	52.92	A16S
ATOM	13369	C2*	C	A	643	127.691	112.185	-29.233	1.00	49.79	A16S
ATOM	13370	O2*	C	A	643	129.009	112.221	-28.721	1.00	49.79	A16S
ATOM	13371	C3*	C	A	643	127.479	113.261	-30.280	1.00	49.79	A16S
ATOM	13372	O3*	C	A	643	128.589	113.354	-31.131	1.00	49.79	A16S
ATOM	13373	P	G	A	644	128.541	112.581	-32.526	1.00	51.12	A16S
ATOM	13374	O1P	G	A	644	129.697	113.057	-33.327	1.00	73.55	A16S
ATOM	13375	O2P	G	A	644	127.168	112.709	-33.072	1.00	73.55	A16S
ATOM	13376	O5*	G	A	644	128.743	111.051	-32.135	1.00	51.12	A16S
ATOM	13377	C5*	G	A	644	130.044	110.542	-31.789	1.00	51.12	A16S
ATOM	13378	C4*	G	A	644	129.973	109.061	-31.519	1.00	51.12	A16S
ATOM	13379	O4*	G	A	644	129.196	108.834	-30.315	1.00	51.12	A16S
ATOM	13380	C1*	G	A	644	128.469	107.623	-30.445	1.00	51.12	A16S
ATOM	13381	N9	G	A	644	127.037	107.892	-30.378	1.00	73.55	A16S
ATOM	13382	C4	G	A	644	126.071	106.931	-30.387	1.00	73.55	A16S
ATOM	13383	N3	G	A	644	126.291	105.605	-30.402	1.00	73.55	A16S
ATOM	13384	C2	G	A	644	125.171	104.923	-30.458	1.00	73.55	A16S
ATOM	13385	N2	G	A	644	125.210	103.598	-30.473	1.00	73.55	A16S
ATOM	13386	N1	G	A	644	123.932	105.493	-30.501	1.00	73.55	A16S
ATOM	13387	C6	G	A	644	123.682	106.859	-30.491	1.00	73.55	A16S
ATOM	13388	O6	G	A	644	122.525	107.267	-30.554	1.00	73.55	A16S
ATOM	13389	C5	G	A	644	124.878	107.606	-30.418	1.00	73.55	A16S
ATOM	13390	N7	G	A	644	125.086	108.977	-30.388	1.00	73.55	A16S
ATOM	13391	C8	G	A	644	126.384	109.101	-30.352	1.00	73.55	A16S



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ATOM	13392	C2*	G	A	644	128.789	107.022	-31.812	1.00	51.12	A16S
ATOM	13393	O2*	G	A	644	129.756	106.014	-31.656	1.00	51.12	A16S
ATOM	13394	C3*	G	A	644	129.274	108.236	-32.588	1.00	51.12	A16S
ATOM	13395	O3*	G	A	644	130.135	107.863	-33.650	1.00	51.12	A16S
ATOM	13396	P	C	A	645	129.521	107.590	-35.113	1.00	48.16	A16S
ATOM	13397	O1P	C	A	645	130.651	107.165	-35.977	1.00	60.69	A16S
ATOM	13398	O2P	C	A	645	128.687	108.753	-35.511	1.00	60.69	A16S
ATOM	13399	O5*	C	A	645	128.563	106.336	-34.908	1.00	48.16	A16S
ATOM	13400	C5*	C	A	645	129.107	105.082	-34.463	1.00	48.16	A16S
ATOM	13401	C4*	C	A	645	128.070	103.990	-34.533	1.00	48.16	A16S
ATOM	13402	O4*	C	A	645	127.088	104.186	-33.495	1.00	48.16	A16S
ATOM	13403	C1*	C	A	645	125.815	103.809	-33.976	1.00	48.16	A16S
ATOM	13404	N1	C	A	645	124.946	104.997	-33.933	1.00	60.69	A16S
ATOM	13405	C6	C	A	645	125.393	106.183	-33.420	1.00	60.69	A16S
ATOM	13406	C2	C	A	645	123.652	104.894	-34.432	1.00	60.69	A16S
ATOM	13407	O2	C	A	645	123.274	103.802	-34.895	1.00	60.69	A16S
ATOM	13408	N3	C	A	645	122.845	105.980	-34.402	1.00	60.69	A16S
ATOM	13409	C4	C	A	645	123.290	107.128	-33.897	1.00	60.69	A16S
ATOM	13410	N4	C	A	645	122.457	108.166	-33.879	1.00	60.69	A16S
ATOM	13411	C5	C	A	645	124.606	107.262	-33.387	1.00	60.69	A16S
ATOM	13412	C2*	C	A	645	125.995	103.246	-35.391	1.00	48.16	A16S
ATOM	13413	O2*	C	A	645	126.137	101.848	-35.314	1.00	48.16	A16S
ATOM	13414	C3*	C	A	645	127.289	103.910	-35.831	1.00	48.16	A16S
ATOM	13415	O3*	C	A	645	127.990	103.114	-36.777	1.00	48.16	A16S
ATOM	13416	P	U	A	646	127.828	103.411	-38.350	1.00	60.45	A16S
ATOM	13417	O1P	U	A	646	128.732	102.479	-39.067	1.00	66.67	A16S
ATOM	13418	O2P	U	A	646	127.919	104.872	-38.623	1.00	66.67	A16S
ATOM	13419	O5*	U	A	646	126.336	102.957	-38.646	1.00	60.45	A16S
ATOM	13420	C5*	U	A	646	125.906	101.630	-38.334	1.00	60.45	A16S
ATOM	13421	C4*	U	A	646	124.422	101.530	-38.500	1.00	60.45	A16S
ATOM	13422	O4*	U	A	646	123.768	102.305	-37.469	1.00	60.45	A16S
ATOM	13423	C1*	U	A	646	122.611	102.920	-38.003	1.00	60.45	A16S
ATOM	13424	N1	U	A	646	122.724	104.380	-37.853	1.00	66.67	A16S
ATOM	13425	C6	U	A	646	123.939	105.012	-37.680	1.00	66.67	A16S
ATOM	13426	C2	U	A	646	121.554	105.100	-37.882	1.00	66.67	A16S
ATOM	13427	O2	U	A	646	120.470	104.584	-38.055	1.00	66.67	A16S
ATOM	13428	N3	U	A	646	121.698	106.450	-37.704	1.00	66.67	A16S
ATOM	13429	C4	U	A	646	122.869	107.142	-37.499	1.00	66.67	A16S
ATOM	13430	O4	U	A	646	122.816	108.347	-37.248	1.00	66.67	A16S
ATOM	13431	C5	U	A	646	124.046	106.333	-37.505	1.00	66.67	A16S
ATOM	13432	C2*	U	A	646	122.480	102.485	-39.458	1.00	60.45	A16S
ATOM	13433	O2*	U	A	646	121.616	101.374	-39.507	1.00	60.45	A16S
ATOM	13434	C3*	U	A	646	123.917	102.127	-39.795	1.00	60.45	A16S
ATOM	13435	O3*	U	A	646	124.044	101.221	-40.867	1.00	60.45	A16S
ATOM	13436	P	C	A	647	124.469	101.773	-42.309	1.00	61.11	A16S
ATOM	13437	O1P	C	A	647	124.893	100.609	-43.131	1.00	62.45	A16S
ATOM	13438	O2P	C	A	647	125.392	102.915	-42.123	1.00	62.45	A16S
ATOM	13439	O5*	C	A	647	123.096	102.299	-42.908	1.00	61.11	A16S
ATOM	13440	C5*	C	A	647	122.010	101.386	-43.086	1.00	61.11	A16S
ATOM	13441	C4*	C	A	647	120.717	102.131	-43.270	1.00	61.11	A16S
ATOM	13442	O4*	C	A	647	120.306	102.772	-42.037	1.00	61.11	A16S
ATOM	13443	C1*	C	A	647	119.611	103.968	-42.336	1.00	61.11	A16S
ATOM	13444	N1	C	A	647	120.344	105.098	-41.754	1.00	62.45	A16S
ATOM	13445	C6	C	A	647	121.634	104.965	-41.322	1.00	62.45	A16S
ATOM	13446	C2	C	A	647	119.698	106.333	-41.678	1.00	62.45	A16S
ATOM	13447	O2	C	A	647	118.512	106.410	-42.041	1.00	62.45	A16S
ATOM	13448	N3	C	A	647	120.376	107.406	-41.214	1.00	62.45	A16S
ATOM	13449	C4	C	A	647	121.646	107.275	-40.828	1.00	62.45	A16S
ATOM	13450	N4	C	A	647	122.292	108.370	-40.420	1.00	62.45	A16S
ATOM	13451	C5	C	A	647	122.316	106.016	-40.856	1.00	62.45	A16S
ATOM	13452	C2*	C	A	647	119.569	104.107	-43.856	1.00	61.11	A16S
ATOM	13453	O2*	C	A	647	118.355	103.592	-44.361	1.00	61.11	A16S
ATOM	13454	C3*	C	A	647	120.758	103.262	-44.265	1.00	61.11	A16S
ATOM	13455	O3*	C	A	647	120.638	102.802	-45.578	1.00	61.11	A16S
ATOM	13456	P	A	A	648	121.332	103.638	-46.747	1.00	75.32	A16S
ATOM	13457	O1P	A	A	648	121.254	102.776	-47.969	1.00	65.11	A16S
ATOM	13458	O2P	A	A	648	122.659	104.094	-46.240	1.00	65.11	A16S
ATOM	13459	O5*	A	A	648	120.389	104.915	-46.907	1.00	75.32	A16S
ATOM	13460	C5*	A	A	648	119.019	104.748	-47.278	1.00	75.32	A16S
ATOM	13461	C4*	A	A	648	118.266	106.042	-47.140	1.00	75.32	A16S
ATOM	13462	O4*	A	A	648	118.185	106.435	-45.746	1.00	75.32	A16S
ATOM	13463	C1*	A	A	648	118.141	107.850	-45.658	1.00	75.32	A16S
ATOM	13464	N9	A	A	648	119.278	108.303	-44.857	1.00	65.11	A16S
ATOM	13465	C4	A	A	648	119.444	109.570	-44.345	1.00	65.11	A16S
ATOM	13466	N3	A	A	648	118.596	110.608	-44.442	1.00	65.11	A16S
ATOM	13467	C2	A	A	648	119.106	111.688	-43.854	1.00	65.11	A16S
ATOM	13468	N1	A	A	648	120.275	111.839	-43.229	1.00	65.11	A16S



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ATOM	13469	C6	A	A	648	121.100	110.775	-43.144	1.00	65.11	A16S
ATOM	13470	N6	A	A	648	122.264	110.923	-42.521	1.00	65.11	A16S
ATOM	13471	C5	A	A	648	120.678	109.567	-43.724	1.00	65.11	A16S
ATOM	13472	N7	A	A	648	121.269	108.312	-43.811	1.00	65.11	A16S
ATOM	13473	C8	A	A	648	120.400	107.599	-44.487	1.00	65.11	A16S
ATOM	13474	C2*	A	A	648	118.214	108.409	-47.082	1.00	75.32	A16S
ATOM	13475	O2*	A	A	648	116.917	108.730	-47.549	1.00	75.32	A16S
ATOM	13476	C3*	A	A	648	118.857	107.251	-47.835	1.00	75.32	A16S
ATOM	13477	O3*	A	A	648	118.552	107.272	-49.216	1.00	75.32	A16S
ATOM	13478	P	G	A	649	119.558	108.011	-50.234	1.00	66.65	A16S
ATOM	13479	O1P	G	A	649	119.055	107.718	-51.602	1.00	70.49	A16S
ATOM	13480	O2P	G	A	649	120.966	107.684	-49.883	1.00	70.49	A16S
ATOM	13481	O5*	G	A	649	119.351	109.560	-49.933	1.00	66.65	A16S
ATOM	13482	C5*	G	A	649	118.077	110.166	-50.135	1.00	66.65	A16S
ATOM	13483	C4*	G	A	649	118.100	111.591	-49.669	1.00	66.65	A16S
ATOM	13484	O4*	G	A	649	118.298	111.636	-48.237	1.00	66.65	A16S
ATOM	13485	C1*	G	A	649	118.892	112.874	-47.894	1.00	66.65	A16S
ATOM	13486	N9	G	A	649	120.069	112.656	-47.065	1.00	70.49	A16S
ATOM	13487	C4	G	A	649	120.648	113.609	-46.284	1.00	70.49	A16S
ATOM	13488	N3	G	A	649	120.215	114.876	-46.146	1.00	70.49	A16S
ATOM	13489	C2	G	A	649	120.962	115.564	-45.312	1.00	70.49	A16S
ATOM	13490	N2	G	A	649	120.649	116.835	-45.040	1.00	70.49	A16S
ATOM	13491	N1	G	A	649	122.062	115.053	-44.674	1.00	70.49	A16S
ATOM	13492	C6	G	A	649	122.532	113.750	-44.809	1.00	70.49	A16S
ATOM	13493	O6	G	A	649	123.537	113.393	-44.192	1.00	70.49	A16S
ATOM	13494	C5	G	A	649	121.727	112.998	-45.694	1.00	70.49	A16S
ATOM	13495	N7	G	A	649	121.826	111.676	-46.100	1.00	70.49	A16S
ATOM	13496	C8	G	A	649	120.817	111.517	-46.913	1.00	70.49	A16S
ATOM	13497	C2*	G	A	649	119.274	113.587	-49.186	1.00	66.65	A16S
ATOM	13498	O2*	G	A	649	118.322	114.591	-49.468	1.00	66.65	A16S
ATOM	13499	C3*	G	A	649	119.236	112.447	-50.186	1.00	66.65	A16S
ATOM	13500	O3*	G	A	649	119.019	112.938	-51.480	1.00	66.65	A16S
ATOM	13501	P	G	A	650	120.285	113.263	-52.407	1.00	68.65	A16S
ATOM	13502	O1P	G	A	650	119.718	113.635	-53.732	1.00	68.30	A16S
ATOM	13503	O2P	G	A	650	121.274	112.153	-52.308	1.00	68.30	A16S
ATOM	13504	O5*	G	A	650	120.948	114.541	-51.734	1.00	68.65	A16S
ATOM	13505	C5*	G	A	650	120.248	115.767	-51.748	1.00	68.65	A16S
ATOM	13506	C4*	G	A	650	120.886	116.760	-50.825	1.00	68.65	A16S
ATOM	13507	O4*	G	A	650	120.969	116.243	-49.473	1.00	68.65	A16S
ATOM	13508	C1*	G	A	650	121.911	117.012	-48.754	1.00	68.65	A16S
ATOM	13509	N9	G	A	650	122.884	116.142	-48.108	1.00	68.30	A16S
ATOM	13510	C4	G	A	650	123.891	116.574	-47.286	1.00	68.30	A16S
ATOM	13511	N3	G	A	650	124.085	117.842	-46.885	1.00	68.30	A16S
ATOM	13512	C2	G	A	650	125.151	117.963	-46.128	1.00	68.30	A16S
ATOM	13513	N2	G	A	650	125.464	119.151	-45.614	1.00	68.30	A16S
ATOM	13514	N1	G	A	650	125.981	116.929	-45.807	1.00	68.30	A16S
ATOM	13515	C6	G	A	650	125.804	115.612	-46.204	1.00	68.30	A16S
ATOM	13516	O6	G	A	650	126.620	114.751	-45.852	1.00	68.30	A16S
ATOM	13517	C5	G	A	650	124.639	115.461	-47.004	1.00	68.30	A16S
ATOM	13518	N7	G	A	650	124.081	114.333	-47.590	1.00	68.30	A16S
ATOM	13519	C8	G	A	650	123.034	114.785	-48.226	1.00	68.30	A16S
ATOM	13520	C2*	G	A	650	122.630	117.895	-49.772	1.00	68.65	A16S
ATOM	13521	O2*	G	A	650	122.048	119.179	-49.705	1.00	68.65	A16S
ATOM	13522	C3*	G	A	650	122.306	117.198	-51.087	1.00	68.65	A16S
ATOM	13523	O3*	G	A	650	122.397	118.108	-52.169	1.00	68.65	A16S
ATOM	13524	P	C	A	651	123.803	118.287	-52.932	1.00	52.44	A16S
ATOM	13525	O1P	C	A	651	123.612	119.246	-54.048	1.00	78.82	A16S
ATOM	13526	O2P	C	A	651	124.364	116.934	-53.205	1.00	78.82	A16S
ATOM	13527	O5*	C	A	651	124.733	119.009	-51.868	1.00	52.44	A16S
ATOM	13528	C5*	C	A	651	124.268	120.166	-51.195	1.00	52.44	A16S
ATOM	13529	C4*	C	A	651	125.317	120.673	-50.263	1.00	52.44	A16S
ATOM	13530	O4*	C	A	651	125.543	119.733	-49.195	1.00	52.44	A16S
ATOM	13531	C1*	C	A	651	126.870	119.874	-48.728	1.00	52.44	A16S
ATOM	13532	N1	C	A	651	127.489	118.543	-48.608	1.00	78.82	A16S
ATOM	13533	C6	C	A	651	127.119	117.512	-49.427	1.00	78.82	A16S
ATOM	13534	C2	C	A	651	128.477	118.352	-47.638	1.00	78.82	A16S
ATOM	13535	O2	C	A	651	128.795	119.307	-46.906	1.00	78.82	A16S
ATOM	13536	N3	C	A	651	129.061	117.137	-47.524	1.00	78.82	A16S
ATOM	13537	C4	C	A	651	128.700	116.142	-48.337	1.00	78.82	A16S
ATOM	13538	N4	C	A	651	129.315	114.970	-48.205	1.00	78.82	A16S
ATOM	13539	C5	C	A	651	127.696	116.308	-49.328	1.00	78.82	A16S
ATOM	13540	C2*	C	A	651	127.600	120.839	-49.663	1.00	52.44	A16S
ATOM	13541	O2*	C	A	651	127.653	122.082	-49.007	1.00	52.44	A16S
ATOM	13542	C3*	C	A	651	126.681	120.851	-50.882	1.00	52.44	A16S
ATOM	13543	O3*	C	A	651	126.681	122.071	-51.592	1.00	52.44	A16S
ATOM	13544	P	U	A	652	127.860	122.394	-52.617	1.00	64.85	A16S
ATOM	13545	O1P	U	A	652	127.492	123.595	-53.399	1.00	64.32	A16S



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ATOM	13546	O2P	U	A	652	128.232	121.145	-53.330	1.00	64.32	A16S
ATOM	13547	O5*	U	A	652	129.017	122.820	-51.631	1.00	64.85	A16S
ATOM	13548	C5*	U	A	652	130.286	123.154	-52.129	1.00	64.85	A16S
ATOM	13549	C4*	U	A	652	131.281	123.142	-51.010	1.00	64.85	A16S
ATOM	13550	O4*	U	A	652	131.116	121.948	-50.210	1.00	64.85	A16S
ATOM	13551	C1*	U	A	652	132.312	121.202	-50.228	1.00	64.85	A16S
ATOM	13552	N1	U	A	652	131.961	119.777	-50.243	1.00	64.32	A16S
ATOM	13553	C6	U	A	652	130.927	119.298	-51.013	1.00	64.32	A16S
ATOM	13554	C2	U	A	652	132.699	118.933	-49.433	1.00	64.32	A16S
ATOM	13555	O2	U	A	652	133.650	119.320	-48.750	1.00	64.32	A16S
ATOM	13556	N3	U	A	652	132.288	117.621	-49.448	1.00	64.32	A16S
ATOM	13557	C4	U	A	652	131.248	117.081	-50.175	1.00	64.32	A16S
ATOM	13558	O4	U	A	652	130.984	115.887	-50.055	1.00	64.32	A16S
ATOM	13559	C5	U	A	652	130.553	118.014	-51.002	1.00	64.32	A16S
ATOM	13560	C2*	U	A	652	133.114	121.680	-51.436	1.00	64.85	A16S
ATOM	13561	O2*	U	A	652	134.505	121.516	-51.225	1.00	64.85	A16S
ATOM	13562	C3*	U	A	652	132.716	123.147	-51.489	1.00	64.85	A16S
ATOM	13563	O3*	U	A	652	133.444	123.862	-50.527	1.00	64.85	A16S
ATOM	13564	P	A	A	653	134.643	124.791	-50.992	1.00	68.17	A16S
ATOM	13565	O1P	A	A	653	134.109	126.175	-51.011	1.00	69.78	A16S
ATOM	13566	O2P	A	A	653	135.188	124.182	-52.240	1.00	69.78	A16S
ATOM	13567	O5*	A	A	653	135.693	124.643	-49.809	1.00	68.17	A16S
ATOM	13568	C5*	A	A	653	136.025	123.349	-49.294	1.00	68.17	A16S
ATOM	13569	C4*	A	A	653	136.812	123.497	-48.025	1.00	68.17	A16S
ATOM	13570	O4*	A	A	653	136.021	124.219	-47.042	1.00	68.17	A16S
ATOM	13571	C1*	A	A	653	135.972	123.477	-45.842	1.00	68.17	A16S
ATOM	13572	N9	A	A	653	134.674	123.689	-45.204	1.00	69.78	A16S
ATOM	13573	C4	A	A	653	133.483	123.127	-45.581	1.00	69.78	A16S
ATOM	13574	N3	A	A	653	133.273	122.296	-46.616	1.00	69.78	A16S
ATOM	13575	C2	A	A	653	131.995	121.936	-46.672	1.00	69.78	A16S
ATOM	13576	N1	A	A	653	130.979	122.281	-45.866	1.00	69.78	A16S
ATOM	13577	C6	A	A	653	131.231	123.116	-44.832	1.00	69.78	A16S
ATOM	13578	N6	A	A	653	130.225	123.448	-44.021	1.00	69.78	A16S
ATOM	13579	C5	A	A	653	132.547	123.579	-44.671	1.00	69.78	A16S
ATOM	13580	N7	A	A	653	133.133	124.431	-43.746	1.00	69.78	A16S
ATOM	13581	C8	A	A	653	134.392	124.464	-44.107	1.00	69.78	A16S
ATOM	13582	C2*	A	A	653	136.243	122.024	-46.234	1.00	68.17	A16S
ATOM	13583	O2*	A	A	653	136.709	121.282	-45.124	1.00	68.17	A16S
ATOM	13584	C3*	A	A	653	137.249	122.194	-47.371	1.00	68.17	A16S
ATOM	13585	O3*	A	A	653	138.569	122.381	-46.877	1.00	68.17	A16S
ATOM	13586	P	G	A	654	139.823	121.886	-47.751	1.00	57.98	A16S
ATOM	13587	O1P	G	A	654	140.983	122.675	-47.294	1.00	58.87	A16S
ATOM	13588	O2P	G	A	654	139.479	121.865	-49.202	1.00	58.87	A16S
ATOM	13589	O5*	G	A	654	140.033	120.386	-47.278	1.00	57.98	A16S
ATOM	13590	C5*	G	A	654	140.533	120.098	-45.970	1.00	57.98	A16S
ATOM	13591	C4*	G	A	654	140.526	118.617	-45.742	1.00	57.98	A16S
ATOM	13592	O4*	G	A	654	139.152	118.155	-45.706	1.00	57.98	A16S
ATOM	13593	C1*	G	A	654	139.074	116.857	-46.272	1.00	57.98	A16S
ATOM	13594	N9	G	A	654	138.151	116.879	-47.402	1.00	58.87	A16S
ATOM	13595	C4	G	A	654	137.576	115.780	-47.980	1.00	58.87	A16S
ATOM	13596	N3	G	A	654	137.760	114.501	-47.597	1.00	58.87	A16S
ATOM	13597	C2	G	A	654	137.084	113.656	-48.353	1.00	58.87	A16S
ATOM	13598	N2	G	A	654	137.165	112.340	-48.113	1.00	58.87	A16S
ATOM	13599	N1	G	A	654	136.289	114.040	-49.397	1.00	58.87	A16S
ATOM	13600	C6	G	A	654	136.093	115.352	-49.803	1.00	58.87	A16S
ATOM	13601	O6	G	A	654	135.370	115.587	-50.756	1.00	58.87	A16S
ATOM	13602	C5	G	A	654	136.810	116.263	-49.005	1.00	58.87	A16S
ATOM	13603	N7	G	A	654	136.893	117.644	-49.074	1.00	58.87	A16S
ATOM	13604	C8	G	A	654	137.699	117.966	-48.102	1.00	58.87	A16S
ATOM	13605	C2*	G	A	654	140.482	116.443	-46.697	1.00	57.98	A16S
ATOM	13606	O2*	G	A	654	141.085	115.649	-45.691	1.00	57.98	A16S
ATOM	13607	C3*	G	A	654	141.156	117.795	-46.853	1.00	57.98	A16S
ATOM	13608	O3*	G	A	654	142.562	117.701	-46.752	1.00	57.98	A16S
ATOM	13609	P	A	A	655	143.447	117.742	-48.092	1.00	53.53	A16S
ATOM	13610	O1P	A	A	655	144.863	117.666	-47.660	1.00	55.55	A16S
ATOM	13611	O2P	A	A	655	142.992	118.891	-48.942	1.00	55.55	A16S
ATOM	13612	O5*	A	A	655	143.074	116.387	-48.847	1.00	53.53	A16S
ATOM	13613	C5*	A	A	655	143.457	115.112	-48.312	1.00	53.53	A16S
ATOM	13614	C4*	A	A	655	142.766	113.999	-49.069	1.00	53.53	A16S
ATOM	13615	O4*	A	A	655	141.334	114.132	-48.908	1.00	53.53	A16S
ATOM	13616	C1*	A	A	655	140.684	113.777	-50.107	1.00	53.53	A16S
ATOM	13617	N9	A	A	655	140.020	114.969	-50.621	1.00	55.55	A16S
ATOM	13618	C4	A	A	655	139.009	114.968	-51.546	1.00	55.55	A16S
ATOM	13619	N3	A	A	655	138.426	113.893	-52.115	1.00	55.55	A16S
ATOM	13620	C2	A	A	655	137.493	114.269	-52.977	1.00	55.55	A16S
ATOM	13621	N1	A	A	655	137.106	115.504	-53.313	1.00	55.55	A16S
ATOM	13622	C6	A	A	655	137.714	116.561	-52.721	1.00	55.55	A16S



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ATOM	13623	N6	A	A	655	137.334	117.793	-53.058	1.00	55.55	A16S
ATOM	13624	C5	A	A	655	138.717	116.295	-51.783	1.00	55.55	A16S
ATOM	13625	N7	A	A	655	139.515	117.124	-51.004	1.00	55.55	A16S
ATOM	13626	C8	A	A	655	140.266	116.290	-50.331	1.00	55.55	A16S
ATOM	13627	C2*	A	A	655	141.742	113.290	-51.093	1.00	53.53	A16S
ATOM	13628	O2*	A	A	655	141.851	111.883	-51.058	1.00	53.53	A16S
ATOM	13629	C3*	A	A	655	142.977	114.001	-50.572	1.00	53.53	A16S
ATOM	13630	O3*	A	A	655	144.167	113.343	-50.949	1.00	53.53	A16S
ATOM	13631	P	C	A	656	144.986	113.884	-52.213	1.00	73.66	A16S
ATOM	13632	O1P	C	A	656	146.297	113.185	-52.203	1.00	69.37	A16S
ATOM	13633	O2P	C	A	656	144.943	115.371	-52.218	1.00	69.37	A16S
ATOM	13634	O5*	C	A	656	144.126	113.365	-53.442	1.00	73.66	A16S
ATOM	13635	C5*	C	A	656	143.828	111.981	-53.560	1.00	73.66	A16S
ATOM	13636	C4*	C	A	656	142.725	111.772	-54.551	1.00	73.66	A16S
ATOM	13637	O4*	C	A	656	141.489	112.339	-54.043	1.00	73.66	A16S
ATOM	13638	C1*	C	A	656	140.694	112.773	-55.136	1.00	73.66	A16S
ATOM	13639	N1	C	A	656	140.513	114.232	-55.063	1.00	69.37	A16S
ATOM	13640	C6	C	A	656	141.439	115.031	-54.461	1.00	69.37	A16S
ATOM	13641	C2	C	A	656	139.386	114.797	-55.675	1.00	69.37	A16S
ATOM	13642	O2	C	A	656	138.520	114.046	-56.154	1.00	69.37	A16S
ATOM	13643	N3	C	A	656	139.263	116.138	-55.725	1.00	69.37	A16S
ATOM	13644	C4	C	A	656	140.199	116.906	-55.179	1.00	69.37	A16S
ATOM	13645	N4	C	A	656	140.062	118.220	-55.295	1.00	69.37	A16S
ATOM	13646	C5	C	A	656	141.325	116.360	-54.501	1.00	69.37	A16S
ATOM	13647	C2*	C	A	656	141.461	112.448	-56.417	1.00	73.66	A16S
ATOM	13648	O2*	C	A	656	141.077	111.174	-56.900	1.00	73.66	A16S
ATOM	13649	C3*	C	A	656	142.892	112.435	-55.908	1.00	73.66	A16S
ATOM	13650	O3*	C	A	656	143.756	111.739	-56.789	1.00	73.66	A16S
ATOM	13651	P	G	A	657	144.586	112.566	-57.892	1.00	73.24	A16S
ATOM	13652	O1P	G	A	657	145.538	111.583	-58.485	1.00	85.04	A16S
ATOM	13653	O2P	G	A	657	145.088	113.837	-57.309	1.00	85.04	A16S
ATOM	13654	O5*	G	A	657	143.511	112.971	-58.989	1.00	73.24	A16S
ATOM	13655	C5*	G	A	657	142.895	111.970	-59.808	1.00	73.24	A16S
ATOM	13656	C4*	G	A	657	141.830	112.592	-60.665	1.00	73.24	A16S
ATOM	13657	O4*	G	A	657	140.843	113.215	-59.802	1.00	73.24	A16S
ATOM	13658	C1*	G	A	657	140.336	114.381	-60.422	1.00	73.24	A16S
ATOM	13659	N9	G	A	657	140.716	115.542	-59.629	1.00	85.04	A16S
ATOM	13660	C4	G	A	657	140.415	116.843	-59.943	1.00	85.04	A16S
ATOM	13661	N3	G	A	657	139.650	117.244	-60.978	1.00	85.04	A16S
ATOM	13662	C2	G	A	657	139.587	118.557	-61.063	1.00	85.04	A16S
ATOM	13663	N2	G	A	657	138.855	119.116	-62.025	1.00	85.04	A16S
ATOM	13664	N1	G	A	657	140.238	119.417	-60.207	1.00	85.04	A16S
ATOM	13665	C6	G	A	657	141.043	119.025	-59.138	1.00	85.04	A16S
ATOM	13666	O6	G	A	657	141.619	119.879	-58.447	1.00	85.04	A16S
ATOM	13667	C5	G	A	657	141.095	117.609	-59.020	1.00	85.04	A16S
ATOM	13668	N7	G	A	657	141.757	116.803	-58.101	1.00	85.04	A16S
ATOM	13669	C8	G	A	657	141.492	115.583	-58.493	1.00	85.04	A16S
ATOM	13670	C2*	G	A	657	141.001	114.495	-61.793	1.00	73.24	A16S
ATOM	13671	O2*	G	A	657	140.157	113.913	-62.759	1.00	73.24	A16S
ATOM	13672	C3*	G	A	657	142.290	113.716	-61.577	1.00	73.24	A16S
ATOM	13673	O3*	G	A	657	142.856	113.234	-62.795	1.00	73.24	A16S
ATOM	13674	P	G	A	658	143.749	114.219	-63.712	1.00	56.19	A16S
ATOM	13675	O1P	G	A	658	144.236	113.390	-64.842	1.00	76.75	A16S
ATOM	13676	O2P	G	A	658	144.727	114.949	-62.863	1.00	76.75	A16S
ATOM	13677	O5*	G	A	658	142.700	115.286	-64.268	1.00	56.19	A16S
ATOM	13678	C5*	G	A	658	141.602	114.881	-65.114	1.00	56.19	A16S
ATOM	13679	C4*	G	A	658	141.017	116.083	-65.807	1.00	56.19	A16S
ATOM	13680	O4*	G	A	658	140.400	116.953	-64.830	1.00	56.19	A16S
ATOM	13681	C1*	G	A	658	140.722	118.301	-65.111	1.00	56.19	A16S
ATOM	13682	N9	G	A	658	141.507	118.791	-63.986	1.00	76.75	A16S
ATOM	13683	C4	G	A	658	141.669	120.095	-63.571	1.00	76.75	A16S
ATOM	13684	N3	G	A	658	141.137	121.190	-64.151	1.00	76.75	A16S
ATOM	13685	C2	G	A	658	141.473	122.299	-63.509	1.00	76.75	A16S
ATOM	13686	N2	G	A	658	141.031	123.490	-63.939	1.00	76.75	A16S
ATOM	13687	N1	G	A	658	142.266	122.326	-62.390	1.00	76.75	A16S
ATOM	13688	C6	G	A	658	142.817	121.208	-61.776	1.00	76.75	A16S
ATOM	13689	O6	G	A	658	143.512	121.336	-60.760	1.00	76.75	A16S
ATOM	13690	C5	G	A	658	142.470	120.022	-62.452	1.00	76.75	A16S
ATOM	13691	N7	G	A	658	142.813	118.707	-62.175	1.00	76.75	A16S
ATOM	13692	C8	G	A	658	142.226	118.016	-63.110	1.00	76.75	A16S
ATOM	13693	C2*	G	A	658	141.481	118.334	-66.438	1.00	56.19	A16S
ATOM	13694	O2*	G	A	658	140.577	118.591	-67.492	1.00	56.19	A16S
ATOM	13695	C3*	G	A	658	142.071	116.932	-66.483	1.00	56.19	A16S
ATOM	13696	O3*	G	A	658	142.317	116.461	-67.794	1.00	56.19	A16S
ATOM	13697	P	U	A	659	143.702	116.819	-68.500	1.00	68.06	A16S
ATOM	13698	O1P	U	A	659	143.646	116.279	-69.885	1.00	83.17	A16S
ATOM	13699	O2P	U	A	659	144.824	116.445	-67.611	1.00	83.17	A16S



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ATOM	13700	O5*	U	A	659	143.645	118.399	-68.586	1.00	68.06	A16S
ATOM	13701	C5*	U	A	659	142.756	119.014	-69.506	1.00	68.06	A16S
ATOM	13702	C4*	U	A	659	142.949	120.497	-69.490	1.00	68.06	A16S
ATOM	13703	O4*	U	A	659	142.522	121.009	-68.207	1.00	68.06	A16S
ATOM	13704	C1*	U	A	659	143.329	122.115	-67.849	1.00	68.06	A16S
ATOM	13705	N1	U	A	659	143.970	121.809	-66.566	1.00	83.17	A16S
ATOM	13706	C6	U	A	659	144.230	120.515	-66.194	1.00	83.17	A16S
ATOM	13707	C2	U	A	659	144.315	122.871	-65.755	1.00	83.17	A16S
ATOM	13708	O2	U	A	659	144.060	124.034	-66.032	1.00	83.17	A16S
ATOM	13709	N3	U	A	659	144.959	122.523	-64.601	1.00	83.17	A16S
ATOM	13710	C4	U	A	659	145.267	121.250	-64.181	1.00	83.17	A16S
ATOM	13711	O4	U	A	659	145.883	121.097	-63.127	1.00	83.17	A16S
ATOM	13712	C5	U	A	659	144.845	120.207	-65.063	1.00	83.17	A16S
ATOM	13713	C2*	U	A	659	144.340	122.348	-68.975	1.00	68.06	A16S
ATOM	13714	O2*	U	A	659	143.882	123.378	-69.835	1.00	68.06	A16S
ATOM	13715	C3*	U	A	659	144.380	120.976	-69.638	1.00	68.06	A16S
ATOM	13716	O3*	U	A	659	144.793	121.012	-70.997	1.00	68.06	A16S
ATOM	13717	P	G	A	660	146.350	120.839	-71.347	1.00	61.89	A16S
ATOM	13718	O1P	G	A	660	146.492	121.004	-72.813	1.00	83.60	A16S
ATOM	13719	O2P	G	A	660	146.842	119.596	-70.706	1.00	83.60	A16S
ATOM	13720	O5*	G	A	660	146.995	122.108	-70.640	1.00	61.89	A16S
ATOM	13721	C5*	G	A	660	146.500	123.406	-70.971	1.00	61.89	A16S
ATOM	13722	C4*	G	A	660	147.192	124.471	-70.168	1.00	61.89	A16S
ATOM	13723	O4*	G	A	660	146.678	124.542	-68.817	1.00	61.89	A16S
ATOM	13724	C1*	G	A	660	147.706	124.988	-67.945	1.00	61.89	A16S
ATOM	13725	N9	G	A	660	147.937	123.964	-66.932	1.00	83.60	A16S
ATOM	13726	C4	G	A	660	148.540	124.146	-65.713	1.00	83.60	A16S
ATOM	13727	N3	G	A	660	149.012	125.311	-65.230	1.00	83.60	A16S
ATOM	13728	C2	G	A	660	149.550	125.166	-64.032	1.00	83.60	A16S
ATOM	13729	N2	G	A	660	150.050	126.227	-63.395	1.00	83.60	A16S
ATOM	13730	N1	G	A	660	149.631	123.971	-63.368	1.00	83.60	A16S
ATOM	13731	C6	G	A	660	149.155	122.756	-63.849	1.00	83.60	A16S
ATOM	13732	O6	G	A	660	149.289	121.727	-63.174	1.00	83.60	A16S
ATOM	13733	C5	G	A	660	148.562	122.899	-65.125	1.00	83.60	A16S
ATOM	13734	N7	G	A	660	147.971	121.954	-65.950	1.00	83.60	A16S
ATOM	13735	C8	G	A	660	147.616	122.630	-67.008	1.00	83.60	A16S
ATOM	13736	C2*	G	A	660	148.950	125.240	-68.798	1.00	61.89	A16S
ATOM	13737	O2*	G	A	660	148.995	126.613	-69.148	1.00	61.89	A16S
ATOM	13738	C3*	G	A	660	148.687	124.340	-70.001	1.00	61.89	A16S
ATOM	13739	O3*	G	A	660	149.373	124.765	-71.164	1.00	61.89	A16S
ATOM	13740	P	G	A	661	150.924	124.417	-71.322	1.00	90.86	A16S
ATOM	13741	O1P	G	A	661	151.474	125.310	-72.367	1.00	70.44	A16S
ATOM	13742	O2P	G	A	661	151.083	122.949	-71.455	1.00	70.44	A16S
ATOM	13743	O5*	G	A	661	151.501	124.877	-69.915	1.00	90.86	A16S
ATOM	13744	C5*	G	A	661	152.837	124.595	-69.536	1.00	90.86	A16S
ATOM	13745	C4*	G	A	661	153.286	125.575	-68.482	1.00	90.86	A16S
ATOM	13746	O4*	G	A	661	152.292	125.658	-67.428	1.00	90.86	A16S
ATOM	13747	C1*	G	A	661	152.919	125.526	-66.160	1.00	90.86	A16S
ATOM	13748	N9	G	A	661	152.588	124.188	-65.665	1.00	70.44	A16S
ATOM	13749	C4	G	A	661	152.854	123.658	-64.421	1.00	70.44	A16S
ATOM	13750	N3	G	A	661	153.453	124.294	-63.398	1.00	70.44	A16S
ATOM	13751	C2	G	A	661	153.581	123.511	-62.345	1.00	70.44	A16S
ATOM	13752	N2	G	A	661	154.148	123.986	-61.235	1.00	70.44	A16S
ATOM	13753	N1	G	A	661	153.161	122.206	-62.303	1.00	70.44	A16S
ATOM	13754	C6	G	A	661	152.548	121.530	-63.349	1.00	70.44	A16S
ATOM	13755	O6	G	A	661	152.220	120.344	-63.217	1.00	70.44	A16S
ATOM	13756	C5	G	A	661	152.394	122.356	-64.474	1.00	70.44	A16S
ATOM	13757	N7	G	A	661	151.830	122.080	-65.710	1.00	70.44	A16S
ATOM	13758	C8	G	A	661	151.961	123.191	-66.380	1.00	70.44	A16S
ATOM	13759	C2*	G	A	661	154.425	125.715	-66.393	1.00	90.86	A16S
ATOM	13760	O2*	G	A	661	154.797	127.080	-66.293	1.00	90.86	A16S
ATOM	13761	C3*	G	A	661	154.571	125.151	-67.801	1.00	90.86	A16S
ATOM	13762	O3*	G	A	661	155.700	125.596	-68.526	1.00	90.86	A16S
ATOM	13763	P	G	A	662	156.977	124.637	-68.647	1.00	93.37	A16S
ATOM	13764	O1P	G	A	662	157.933	125.306	-69.573	1.00	65.18	A16S
ATOM	13765	O2P	G	A	662	156.529	123.240	-68.928	1.00	65.18	A16S
ATOM	13766	O5*	G	A	662	157.579	124.696	-67.176	1.00	93.37	A16S
ATOM	13767	C5*	G	A	662	157.793	125.970	-66.550	1.00	93.37	A16S
ATOM	13768	C4*	G	A	662	158.301	125.792	-65.151	1.00	93.37	A16S
ATOM	13769	O4*	G	A	662	157.241	125.334	-64.283	1.00	93.37	A16S
ATOM	13770	C1*	G	A	662	157.788	124.516	-63.267	1.00	93.37	A16S
ATOM	13771	N9	G	A	662	157.140	123.212	-63.316	1.00	65.18	A16S
ATOM	13772	C4	G	A	662	157.163	122.260	-62.323	1.00	65.18	A16S
ATOM	13773	N3	G	A	662	157.811	122.362	-61.139	1.00	65.18	A16S
ATOM	13774	C2	G	A	662	157.646	121.282	-60.393	1.00	65.18	A16S
ATOM	13775	N2	G	A	662	158.238	121.206	-59.194	1.00	65.18	A16S
ATOM	13776	N1	G	A	662	156.893	120.195	-60.771	1.00	65.18	A16S



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ATOM	13777	C6	G	A	662	156.210	120.073	-61.980	1.00	65.18	A16S
ATOM	13778	O6	G	A	662	155.539	119.052	-62.217	1.00	65.18	A16S
ATOM	13779	C5	G	A	662	156.395	121.218	-62.799	1.00	65.18	A16S
ATOM	13780	N7	G	A	662	155.913	121.502	-64.070	1.00	65.18	A16S
ATOM	13781	C8	G	A	662	156.383	122.691	-64.337	1.00	65.18	A16S
ATOM	13782	C2*	G	A	662	159.293	124.426	-63.499	1.00	93.37	A16S
ATOM	13783	O2*	G	A	662	159.935	125.378	-62.679	1.00	93.37	A16S
ATOM	13784	C3*	G	A	662	159.395	124.764	-64.978	1.00	93.37	A16S
ATOM	13785	O3*	G	A	662	160.652	125.299	-65.323	1.00	93.37	A16S
ATOM	13786	P	A	A	663	161.837	124.310	-65.770	1.00	66.75	A16S
ATOM	13787	O1P	A	A	663	162.796	125.169	-66.535	1.00	54.86	A16S
ATOM	13788	O2P	A	A	663	161.281	123.070	-66.390	1.00	54.86	A16S
ATOM	13789	O5*	A	A	663	162.503	123.860	-64.394	1.00	66.75	A16S
ATOM	13790	C5*	A	A	663	162.948	124.835	-63.423	1.00	66.75	A16S
ATOM	13791	C4*	A	A	663	163.369	124.142	-62.150	1.00	66.75	A16S
ATOM	13792	O4*	A	A	663	162.209	123.623	-61.455	1.00	66.75	A16S
ATOM	13793	C1*	A	A	663	162.512	122.365	-60.873	1.00	66.75	A16S
ATOM	13794	N9	A	A	663	161.655	121.361	-61.500	1.00	54.86	A16S
ATOM	13795	C4	A	A	663	161.135	120.222	-60.928	1.00	54.86	A16S
ATOM	13796	N3	A	A	663	161.327	119.767	-59.679	1.00	54.86	A16S
ATOM	13797	C2	A	A	663	160.629	118.650	-59.476	1.00	54.86	A16S
ATOM	13798	N1	A	A	663	159.826	117.988	-60.313	1.00	54.86	A16S
ATOM	13799	C6	A	A	663	159.659	118.472	-61.556	1.00	54.86	A16S
ATOM	13800	N6	A	A	663	158.854	117.821	-62.391	1.00	54.86	A16S
ATOM	13801	C5	A	A	663	160.341	119.642	-61.900	1.00	54.86	A16S
ATOM	13802	N7	A	A	663	160.379	120.384	-63.070	1.00	54.86	A16S
ATOM	13803	C8	A	A	663	161.177	121.384	-62.784	1.00	54.86	A16S
ATOM	13804	C2*	A	A	663	163.989	122.104	-61.113	1.00	66.75	A16S
ATOM	13805	O2*	A	A	663	164.697	122.602	-59.997	1.00	66.75	A16S
ATOM	13806	C3*	A	A	663	164.228	122.920	-62.370	1.00	66.75	A16S
ATOM	13807	O3*	A	A	663	165.571	123.254	-62.582	1.00	66.75	A16S
ATOM	13808	P	G	A	664	166.473	122.266	-63.448	1.00	60.33	A16S
ATOM	13809	O1P	G	A	664	167.806	122.899	-63.583	1.00	53.46	A16S
ATOM	13810	O2P	G	A	664	165.693	121.891	-64.668	1.00	53.46	A16S
ATOM	13811	O5*	G	A	664	166.606	120.991	-62.506	1.00	60.33	A16S
ATOM	13812	C5*	G	A	664	167.050	121.149	-61.155	1.00	60.33	A16S
ATOM	13813	C4*	G	A	664	166.802	119.896	-60.372	1.00	60.33	A16S
ATOM	13814	O4*	G	A	664	165.392	119.661	-60.174	1.00	60.33	A16S
ATOM	13815	C1*	G	A	664	165.161	118.272	-60.033	1.00	60.33	A16S
ATOM	13816	N9	G	A	664	164.128	117.879	-60.977	1.00	53.46	A16S
ATOM	13817	C4	G	A	664	163.280	116.796	-60.869	1.00	53.46	A16S
ATOM	13818	N3	G	A	664	163.205	115.940	-59.827	1.00	53.46	A16S
ATOM	13819	C2	G	A	664	162.332	114.964	-60.054	1.00	53.46	A16S
ATOM	13820	N2	G	A	664	162.112	114.012	-59.130	1.00	53.46	A16S
ATOM	13821	N1	G	A	664	161.606	114.838	-61.204	1.00	53.46	A16S
ATOM	13822	C6	G	A	664	161.673	115.697	-62.288	1.00	53.46	A16S
ATOM	13823	O6	G	A	664	161.002	115.459	-63.299	1.00	53.46	A16S
ATOM	13824	C5	G	A	664	162.581	116.763	-62.056	1.00	53.46	A16S
ATOM	13825	N7	G	A	664	162.932	117.837	-62.865	1.00	53.46	A16S
ATOM	13826	C8	G	A	664	163.842	118.477	-62.181	1.00	53.46	A16S
ATOM	13827	C2*	G	A	664	166.481	117.553	-60.317	1.00	60.33	A16S
ATOM	13828	O2*	G	A	664	167.089	117.173	-59.101	1.00	60.33	A16S
ATOM	13829	C3*	G	A	664	167.280	118.632	-61.036	1.00	60.33	A16S
ATOM	13830	O3*	G	A	664	168.664	118.513	-60.808	1.00	60.33	A16S
ATOM	13831	P	A	A	665	169.614	117.940	-61.963	1.00	63.22	A16S
ATOM	13832	O1P	A	A	665	170.454	119.083	-62.410	1.00	54.72	A16S
ATOM	13833	O2P	A	A	665	168.798	117.185	-62.972	1.00	54.72	A16S
ATOM	13834	O5*	A	A	665	170.536	116.933	-61.138	1.00	63.22	A16S
ATOM	13835	C5*	A	A	665	171.321	115.962	-61.808	1.00	63.22	A16S
ATOM	13836	C4*	A	A	665	171.397	114.695	-61.001	1.00	63.22	A16S
ATOM	13837	O4*	A	A	665	172.585	114.660	-60.179	1.00	63.22	A16S
ATOM	13838	C1*	A	A	665	172.384	113.718	-59.151	1.00	63.22	A16S
ATOM	13839	N9	A	A	665	172.828	114.303	-57.896	1.00	54.72	A16S
ATOM	13840	C4	A	A	665	173.457	113.628	-56.890	1.00	54.72	A16S
ATOM	13841	N3	A	A	665	173.773	112.327	-56.865	1.00	54.72	A16S
ATOM	13842	C2	A	A	665	174.391	112.019	-55.731	1.00	54.72	A16S
ATOM	13843	N1	A	A	665	174.707	112.808	-54.697	1.00	54.72	A16S
ATOM	13844	C6	A	A	665	174.375	114.113	-54.759	1.00	54.72	A16S
ATOM	13845	N6	A	A	665	174.706	114.902	-53.735	1.00	54.72	A16S
ATOM	13846	C5	A	A	665	173.706	114.561	-55.908	1.00	54.72	A16S
ATOM	13847	N7	A	A	665	173.230	115.805	-56.286	1.00	54.72	A16S
ATOM	13848	C8	A	A	665	172.720	115.596	-57.471	1.00	54.72	A16S
ATOM	13849	C2*	A	A	665	170.906	113.304	-59.161	1.00	63.22	A16S
ATOM	13850	O2*	A	A	665	170.765	112.035	-59.767	1.00	63.22	A16S
ATOM	13851	C3*	A	A	665	170.270	114.373	-60.038	1.00	63.22	A16S
ATOM	13852	O3*	A	A	665	169.137	113.825	-60.700	1.00	63.22	A16S
ATOM	13853	P	G	A	666	167.677	113.972	-60.033	1.00	58.46	A16S



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ATOM	13854	O1P	G	A	666	166.711	114.350	-61.109	1.00	57.28	A16S
ATOM	13855	O2P	G	A	666	167.816	114.838	-58.821	1.00	57.28	A16S
ATOM	13856	O5*	G	A	666	167.305	112.491	-59.577	1.00	58.46	A16S
ATOM	13857	C5*	G	A	666	167.370	112.109	-58.193	1.00	58.46	A16S
ATOM	13858	C4*	G	A	666	166.399	110.988	-57.910	1.00	58.46	A16S
ATOM	13859	O4*	G	A	666	165.049	111.429	-58.220	1.00	58.46	A16S
ATOM	13860	C1*	G	A	666	164.268	110.327	-58.658	1.00	58.46	A16S
ATOM	13861	N9	G	A	666	163.782	110.591	-60.012	1.00	57.28	A16S
ATOM	13862	C4	G	A	666	163.091	109.713	-60.822	1.00	57.28	A16S
ATOM	13863	N3	G	A	666	162.692	108.472	-60.485	1.00	57.28	A16S
ATOM	13864	C2	G	A	666	162.073	107.862	-61.480	1.00	57.28	A16S
ATOM	13865	N2	G	A	666	161.574	106.623	-61.302	1.00	57.28	A16S
ATOM	13866	N1	G	A	666	161.886	108.420	-62.717	1.00	57.28	A16S
ATOM	13867	C6	G	A	666	162.296	109.691	-63.089	1.00	57.28	A16S
ATOM	13868	O6	G	A	666	162.097	110.087	-64.239	1.00	57.28	A16S
ATOM	13869	C5	G	A	666	162.931	110.368	-62.020	1.00	57.28	A16S
ATOM	13870	N7	G	A	666	163.465	111.648	-61.958	1.00	57.28	A16S
ATOM	13871	C8	G	A	666	163.952	111.739	-60.749	1.00	57.28	A16S
ATOM	13872	C2*	G	A	666	165.168	109.097	-58.608	1.00	58.46	A16S
ATOM	13873	O2*	G	A	666	164.963	108.462	-57.366	1.00	58.46	A16S
ATOM	13874	C3*	G	A	666	166.548	109.726	-58.733	1.00	58.46	A16S
ATOM	13875	O3*	G	A	666	167.603	108.889	-58.300	1.00	58.46	A16S
ATOM	13876	P	G	A	667	168.521	108.158	-59.407	1.00	48.13	A16S
ATOM	13877	O1P	G	A	667	169.620	107.465	-58.691	1.00	46.99	A16S
ATOM	13878	O2P	G	A	667	168.841	109.116	-60.501	1.00	46.99	A16S
ATOM	13879	O5*	G	A	667	167.567	107.025	-59.972	1.00	48.13	A16S
ATOM	13880	C5*	G	A	667	167.090	106.018	-59.084	1.00	48.13	A16S
ATOM	13881	C4*	G	A	667	166.118	105.121	-59.778	1.00	48.13	A16S
ATOM	13882	O4*	G	A	667	165.003	105.915	-60.239	1.00	48.13	A16S
ATOM	13883	C1*	G	A	667	164.496	105.357	-61.435	1.00	48.13	A16S
ATOM	13884	N9	G	A	667	164.672	106.328	-62.509	1.00	46.99	A16S
ATOM	13885	C4	G	A	667	164.183	106.214	-63.784	1.00	46.99	A16S
ATOM	13886	N3	G	A	667	163.460	105.182	-64.262	1.00	46.99	A16S
ATOM	13887	C2	G	A	667	163.132	105.356	-65.525	1.00	46.99	A16S
ATOM	13888	N2	G	A	667	162.412	104.418	-66.158	1.00	46.99	A16S
ATOM	13889	N1	G	A	667	163.483	106.460	-66.261	1.00	46.99	A16S
ATOM	13890	C6	G	A	667	164.223	107.538	-65.785	1.00	46.99	A16S
ATOM	13891	O6	G	A	667	164.480	108.500	-66.534	1.00	46.99	A16S
ATOM	13892	C5	G	A	667	164.586	107.356	-64.433	1.00	46.99	A16S
ATOM	13893	N7	G	A	667	165.319	108.170	-63.586	1.00	46.99	A16S
ATOM	13894	C8	G	A	667	165.346	107.519	-62.457	1.00	46.99	A16S
ATOM	13895	C2*	G	A	667	165.289	104.084	-61.716	1.00	48.13	A16S
ATOM	13896	O2*	G	A	667	164.633	103.005	-61.071	1.00	48.13	A16S
ATOM	13897	C3*	G	A	667	166.603	104.398	-61.025	1.00	48.13	A16S
ATOM	13898	O3*	G	A	667	167.330	103.211	-60.730	1.00	48.13	A16S
ATOM	13899	P	G	A	668	168.465	102.706	-61.750	1.00	51.99	A16S
ATOM	13900	O1P	G	A	668	169.178	101.597	-61.064	1.00	56.83	A16S
ATOM	13901	O2P	G	A	668	169.231	103.881	-62.245	1.00	56.83	A16S
ATOM	13902	O5*	G	A	668	167.639	102.101	-62.970	1.00	51.99	A16S
ATOM	13903	C5*	G	A	668	167.038	100.791	-62.876	1.00	51.99	A16S
ATOM	13904	C4*	G	A	668	166.412	100.407	-64.195	1.00	51.99	A16S
ATOM	13905	O4*	G	A	668	165.375	101.367	-64.515	1.00	51.99	A16S
ATOM	13906	C1*	G	A	668	165.377	101.628	-65.902	1.00	51.99	A16S
ATOM	13907	N9	G	A	668	165.802	103.002	-66.085	1.00	56.83	A16S
ATOM	13908	C4	G	A	668	165.789	103.699	-67.259	1.00	56.83	A16S
ATOM	13909	N3	G	A	668	165.333	103.239	-68.442	1.00	56.83	A16S
ATOM	13910	C2	G	A	668	165.459	104.138	-69.405	1.00	56.83	A16S
ATOM	13911	N2	G	A	668	165.024	103.848	-70.637	1.00	56.83	A16S
ATOM	13912	N1	G	A	668	166.019	105.384	-69.223	1.00	56.83	A16S
ATOM	13913	C6	G	A	668	166.519	105.868	-68.010	1.00	56.83	A16S
ATOM	13914	O6	G	A	668	167.051	106.993	-67.955	1.00	56.83	A16S
ATOM	13915	C5	G	A	668	166.350	104.923	-66.965	1.00	56.83	A16S
ATOM	13916	N7	G	A	668	166.673	105.005	-65.618	1.00	56.83	A16S
ATOM	13917	C8	G	A	668	166.329	103.843	-65.135	1.00	56.83	A16S
ATOM	13918	C2*	G	A	668	166.387	100.688	-66.550	1.00	51.99	A16S
ATOM	13919	O2*	G	A	668	165.697	99.522	-66.929	1.00	51.99	A16S
ATOM	13920	C3*	G	A	668	167.346	100.428	-65.399	1.00	51.99	A16S
ATOM	13921	O3*	G	A	668	168.037	99.183	-65.541	1.00	51.99	A16S
ATOM	13922	P	U	A	669	169.484	99.153	-66.235	1.00	66.61	A16S
ATOM	13923	O1P	U	A	669	170.068	97.797	-66.026	1.00	60.44	A16S
ATOM	13924	O2P	U	A	669	170.227	100.342	-65.772	1.00	60.44	A16S
ATOM	13925	O5*	U	A	669	169.159	99.380	-67.781	1.00	66.61	A16S
ATOM	13926	C5*	U	A	669	168.428	98.387	-68.544	1.00	66.61	A16S
ATOM	13927	C4*	U	A	669	168.309	98.796	-70.005	1.00	66.61	A16S
ATOM	13928	O4*	U	A	669	167.429	99.942	-70.142	1.00	66.61	A16S
ATOM	13929	C1*	U	A	669	167.858	100.743	-71.227	1.00	66.61	A16S
ATOM	13930	N1	U	A	669	168.231	102.052	-70.702	1.00	60.44	A16S



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ATOM	13931	C6	U	A	669	168.613	102.203	-69.395	1.00	60.44	A16S
ATOM	13932	C2	U	A	669	168.210	103.120	-71.573	1.00	60.44	A16S
ATOM	13933	O2	U	A	669	167.852	103.022	-72.739	1.00	60.44	A16S
ATOM	13934	N3	U	A	669	168.624	104.310	-71.028	1.00	60.44	A16S
ATOM	13935	C4	U	A	669	169.038	104.523	-69.727	1.00	60.44	A16S
ATOM	13936	O4	U	A	669	169.371	105.649	-69.376	1.00	60.44	A16S
ATOM	13937	C5	U	A	669	169.009	103.367	-68.893	1.00	60.44	A16S
ATOM	13938	C2*	U	A	669	169.080	100.083	-71.857	1.00	66.61	A16S
ATOM	13939	O2*	U	A	669	168.676	99.358	-72.996	1.00	66.61	A16S
ATOM	13940	C3*	U	A	669	169.587	99.215	-70.712	1.00	66.61	A16S
ATOM	13941	O3*	U	A	669	170.331	98.107	-71.181	1.00	66.61	A16S
ATOM	13942	P	G	A	670	171.919	98.240	-71.323	1.00	71.56	A16S
ATOM	13943	O1P	G	A	670	172.415	96.867	-71.554	1.00	79.16	A16S
ATOM	13944	O2P	G	A	670	172.440	99.021	-70.174	1.00	79.16	A16S
ATOM	13945	O5*	G	A	670	172.112	99.132	-72.633	1.00	71.56	A16S
ATOM	13946	C5*	G	A	670	171.726	98.627	-73.930	1.00	71.56	A16S
ATOM	13947	C4*	G	A	670	171.611	99.749	-74.943	1.00	71.56	A16S
ATOM	13948	O4*	G	A	670	170.682	100.749	-74.454	1.00	71.56	A16S
ATOM	13949	C1*	G	A	670	171.074	102.026	-74.919	1.00	71.56	A16S
ATOM	13950	N9	G	A	670	171.394	102.849	-73.763	1.00	79.16	A16S
ATOM	13951	C4	G	A	670	171.660	104.188	-73.790	1.00	79.16	A16S
ATOM	13952	N3	G	A	670	171.635	104.973	-74.884	1.00	79.16	A16S
ATOM	13953	C2	G	A	670	171.948	106.221	-74.600	1.00	79.16	A16S
ATOM	13954	N2	G	A	670	171.947	107.140	-75.567	1.00	79.16	A16S
ATOM	13955	N1	G	A	670	172.280	106.660	-73.347	1.00	79.16	A16S
ATOM	13956	C6	G	A	670	172.326	105.862	-72.210	1.00	79.16	A16S
ATOM	13957	O6	G	A	670	172.667	106.348	-71.129	1.00	79.16	A16S
ATOM	13958	C5	G	A	670	171.966	104.527	-72.495	1.00	79.16	A16S
ATOM	13959	N7	G	A	670	171.866	103.425	-71.660	1.00	79.16	A16S
ATOM	13960	C8	G	A	670	171.520	102.451	-72.456	1.00	79.16	A16S
ATOM	13961	C2*	G	A	670	172.313	101.853	-75.797	1.00	71.56	A16S
ATOM	13962	O2*	G	A	670	171.945	101.815	-77.165	1.00	71.56	A16S
ATOM	13963	C3*	G	A	670	172.872	100.536	-75.276	1.00	71.56	A16S
ATOM	13964	O3*	G	A	670	173.665	99.890	-76.263	1.00	71.56	A16S
ATOM	13965	P	G	A	671	175.267	100.049	-76.226	1.00	67.23	A16S
ATOM	13966	O1P	G	A	671	175.747	99.147	-77.302	1.00	87.84	A16S
ATOM	13967	O2P	G	A	671	175.760	99.850	-74.838	1.00	87.84	A16S
ATOM	13968	O5*	G	A	671	175.535	101.568	-76.646	1.00	67.23	A16S
ATOM	13969	C5*	G	A	671	175.134	102.025	-77.938	1.00	67.23	A16S
ATOM	13970	C4*	G	A	671	175.081	103.532	-77.999	1.00	67.23	A16S
ATOM	13971	O4*	G	A	671	174.225	104.051	-76.954	1.00	67.23	A16S
ATOM	13972	C1*	G	A	671	174.623	105.376	-76.646	1.00	67.23	A16S
ATOM	13973	N9	G	A	671	174.932	105.477	-75.225	1.00	87.84	A16S
ATOM	13974	C4	G	A	671	175.238	106.639	-74.567	1.00	87.84	A16S
ATOM	13975	N3	G	A	671	175.280	107.867	-75.119	1.00	87.84	A16S
ATOM	13976	C2	G	A	671	175.623	108.789	-74.246	1.00	87.84	A16S
ATOM	13977	N2	G	A	671	175.716	110.060	-74.638	1.00	87.84	A16S
ATOM	13978	N1	G	A	671	175.900	108.529	-72.929	1.00	87.84	A16S
ATOM	13979	C6	G	A	671	175.866	107.269	-72.337	1.00	87.84	A16S
ATOM	13980	O6	G	A	671	176.147	107.140	-71.140	1.00	87.84	A16S
ATOM	13981	C5	G	A	671	175.496	106.268	-73.269	1.00	87.84	A16S
ATOM	13982	N7	G	A	671	175.340	104.897	-73.107	1.00	87.84	A16S
ATOM	13983	C8	G	A	671	175.001	104.470	-74.293	1.00	87.84	A16S
ATOM	13984	C2*	G	A	671	175.856	105.706	-77.487	1.00	67.23	A16S
ATOM	13985	O2*	G	A	671	175.467	106.451	-78.626	1.00	67.23	A16S
ATOM	13986	C3*	G	A	671	176.371	104.319	-77.840	1.00	67.23	A16S
ATOM	13987	O3*	G	A	671	177.106	104.381	-79.047	1.00	67.23	A16S
ATOM	13988	P	U	A	672	178.672	104.050	-79.036	1.00	62.86	A16S
ATOM	13989	O1P	U	A	672	179.039	103.854	-80.459	1.00	83.10	A16S
ATOM	13990	O2P	U	A	672	178.936	102.968	-78.043	1.00	83.10	A16S
ATOM	13991	O5*	U	A	672	179.347	105.397	-78.542	1.00	62.86	A16S
ATOM	13992	C5*	U	A	672	179.077	106.612	-79.223	1.00	62.86	A16S
ATOM	13993	C4*	U	A	672	179.091	107.759	-78.256	1.00	62.86	A16S
ATOM	13994	O4*	U	A	672	178.294	107.412	-77.100	1.00	62.86	A16S
ATOM	13995	C1*	U	A	672	178.730	108.179	-75.997	1.00	62.86	A16S
ATOM	13996	N1	U	A	672	178.803	107.339	-74.796	1.00	83.10	A16S
ATOM	13997	C6	U	A	672	178.640	105.982	-74.839	1.00	83.10	A16S
ATOM	13998	C2	U	A	672	179.046	107.988	-73.609	1.00	83.10	A16S
ATOM	13999	O2	U	A	672	179.177	109.197	-73.541	1.00	83.10	A16S
ATOM	14000	N3	U	A	672	179.123	107.179	-72.508	1.00	83.10	A16S
ATOM	14001	C4	U	A	672	178.969	105.812	-72.475	1.00	83.10	A16S
ATOM	14002	O4	U	A	672	179.037	105.216	-71.392	1.00	83.10	A16S
ATOM	14003	C5	U	A	672	178.710	105.215	-73.749	1.00	83.10	A16S
ATOM	14004	C2*	U	A	672	180.061	108.837	-76.361	1.00	62.86	A16S
ATOM	14005	O2*	U	A	672	179.843	110.226	-76.505	1.00	62.86	A16S
ATOM	14006	C3*	U	A	672	180.438	108.112	-77.653	1.00	62.86	A16S
ATOM	14007	O3*	U	A	672	181.161	108.965	-78.526	1.00	62.86	A16S



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ATOM	14008	P	G	A	673	182.749	109.110	-78.355	1.00	74.59	A16S
ATOM	14009	O1P	G	A	673	183.269	109.607	-79.662	1.00	67.12	A16S
ATOM	14010	O2P	G	A	673	183.285	107.846	-77.768	1.00	67.12	A16S
ATOM	14011	O5*	G	A	673	182.926	110.290	-77.307	1.00	74.59	A16S
ATOM	14012	C5*	G	A	673	182.847	111.647	-77.742	1.00	74.59	A16S
ATOM	14013	C4*	G	A	673	183.237	112.558	-76.624	1.00	74.59	A16S
ATOM	14014	O4*	G	A	673	182.324	112.342	-75.530	1.00	74.59	A16S
ATOM	14015	C1*	G	A	673	183.013	112.466	-74.311	1.00	74.59	A16S
ATOM	14016	N9	G	A	673	182.853	111.227	-73.567	1.00	67.12	A16S
ATOM	14017	C4	G	A	673	183.008	111.095	-72.219	1.00	67.12	A16S
ATOM	14018	N3	G	A	673	183.329	112.090	-71.366	1.00	67.12	A16S
ATOM	14019	C2	G	A	673	183.413	111.663	-70.122	1.00	67.12	A16S
ATOM	14020	N2	G	A	673	183.743	112.534	-69.148	1.00	67.12	A16S
ATOM	14021	N1	G	A	673	183.187	110.354	-69.749	1.00	67.12	A16S
ATOM	14022	C6	G	A	673	182.858	109.317	-70.619	1.00	67.12	A16S
ATOM	14023	O6	G	A	673	182.689	108.180	-70.186	1.00	67.12	A16S
ATOM	14024	C5	G	A	673	182.770	109.766	-71.950	1.00	67.12	A16S
ATOM	14025	N7	G	A	673	182.465	109.076	-73.112	1.00	67.12	A16S
ATOM	14026	C8	G	A	673	182.526	109.983	-74.048	1.00	67.12	A16S
ATOM	14027	C2*	G	A	673	184.473	112.794	-74.613	1.00	74.59	A16S
ATOM	14028	O2*	G	A	673	184.650	114.186	-74.497	1.00	74.59	A16S
ATOM	14029	C3*	G	A	673	184.614	112.301	-76.044	1.00	74.59	A16S
ATOM	14030	O3*	G	A	673	185.587	113.051	-76.760	1.00	74.59	A16S
ATOM	14031	P	G	A	674	187.014	112.398	-77.101	1.00	58.50	A16S
ATOM	14032	O1P	G	A	674	187.423	112.969	-78.409	1.00	69.08	A16S
ATOM	14033	O2P	G	A	674	186.910	110.923	-76.947	1.00	69.08	A16S
ATOM	14034	O5*	G	A	674	187.979	112.977	-75.974	1.00	58.50	A16S
ATOM	14035	C5*	G	A	674	188.143	114.391	-75.829	1.00	58.50	A16S
ATOM	14036	C4*	G	A	674	188.290	114.754	-74.379	1.00	58.50	A16S
ATOM	14037	O4*	G	A	674	187.126	114.299	-73.647	1.00	58.50	A16S
ATOM	14038	C1*	G	A	674	187.505	113.907	-72.337	1.00	58.50	A16S
ATOM	14039	N9	G	A	674	187.169	112.503	-72.150	1.00	69.08	A16S
ATOM	14040	C4	G	A	674	186.936	111.866	-70.949	1.00	69.08	A16S
ATOM	14041	N3	G	A	674	186.950	112.436	-69.727	1.00	69.08	A16S
ATOM	14042	C2	G	A	674	186.696	111.556	-68.770	1.00	69.08	A16S
ATOM	14043	N2	G	A	674	186.667	111.944	-67.493	1.00	69.08	A16S
ATOM	14044	N1	G	A	674	186.451	110.231	-68.991	1.00	69.08	A16S
ATOM	14045	C6	G	A	674	186.431	109.621	-70.235	1.00	69.08	A16S
ATOM	14046	O6	G	A	674	186.201	108.410	-70.322	1.00	69.08	A16S
ATOM	14047	C5	G	A	674	186.698	110.551	-71.276	1.00	69.08	A16S
ATOM	14048	N7	G	A	674	186.764	110.366	-72.652	1.00	69.08	A16S
ATOM	14049	C8	G	A	674	187.043	111.550	-73.126	1.00	69.08	A16S
ATOM	14050	C2*	G	A	674	189.008	114.114	-72.207	1.00	58.50	A16S
ATOM	14051	O2*	G	A	674	189.267	115.352	-71.574	1.00	58.50	A16S
ATOM	14052	C3*	G	A	674	189.444	114.086	-73.664	1.00	58.50	A16S
ATOM	14053	O3*	G	A	674	190.664	114.769	-73.845	1.00	58.50	A16S
ATOM	14054	P	A	A	675	192.031	114.021	-73.475	1.00	62.69	A16S
ATOM	14055	O1P	A	A	675	193.152	114.820	-74.053	1.00	59.38	A16S
ATOM	14056	O2P	A	A	675	191.874	112.587	-73.851	1.00	59.38	A16S
ATOM	14057	O5*	A	A	675	192.092	114.101	-71.884	1.00	62.69	A16S
ATOM	14058	C5*	A	A	675	192.263	115.358	-71.218	1.00	62.69	A16S
ATOM	14059	C4*	A	A	675	192.281	115.159	-69.727	1.00	62.69	A16S
ATOM	14060	O4*	A	A	675	190.980	114.691	-69.278	1.00	62.69	A16S
ATOM	14061	C1*	A	A	675	191.142	113.831	-68.159	1.00	62.69	A16S
ATOM	14062	N9	A	A	675	190.618	112.501	-68.493	1.00	59.38	A16S
ATOM	14063	C4	A	A	675	190.326	111.501	-67.590	1.00	59.38	A16S
ATOM	14064	N3	A	A	675	190.432	111.555	-66.249	1.00	59.38	A16S
ATOM	14065	C2	A	A	675	190.065	110.401	-65.703	1.00	59.38	A16S
ATOM	14066	N1	A	A	675	189.644	109.279	-66.296	1.00	59.38	A16S
ATOM	14067	C6	A	A	675	189.553	109.251	-67.641	1.00	59.38	A16S
ATOM	14068	N6	A	A	675	189.142	108.121	-68.224	1.00	59.38	A16S
ATOM	14069	C5	A	A	675	189.904	110.422	-68.342	1.00	59.38	A16S
ATOM	14070	N7	A	A	675	189.910	110.736	-69.694	1.00	59.38	A16S
ATOM	14071	C8	A	A	675	190.338	111.977	-69.730	1.00	59.38	A16S
ATOM	14072	C2*	A	A	675	192.635	113.769	-67.851	1.00	62.69	A16S
ATOM	14073	O2*	A	A	675	192.957	114.761	-66.903	1.00	62.69	A16S
ATOM	14074	C3*	A	A	675	193.233	114.101	-69.205	1.00	62.69	A16S
ATOM	14075	O3*	A	A	675	194.568	114.531	-69.090	1.00	62.69	A16S
ATOM	14076	P	A	A	676	195.749	113.464	-69.336	1.00	67.87	A16S
ATOM	14077	O1P	A	A	676	197.041	114.213	-69.316	1.00	53.61	A16S
ATOM	14078	O2P	A	A	676	195.383	112.651	-70.531	1.00	53.61	A16S
ATOM	14079	O5*	A	A	676	195.685	112.490	-68.078	1.00	67.87	A16S
ATOM	14080	C5*	A	A	676	195.921	112.990	-66.761	1.00	67.87	A16S
ATOM	14081	C4*	A	A	676	195.635	111.921	-65.747	1.00	67.87	A16S
ATOM	14082	O4*	A	A	676	194.243	111.529	-65.833	1.00	67.87	A16S
ATOM	14083	C1*	A	A	676	194.118	110.148	-65.533	1.00	67.87	A16S
ATOM	14084	N9	A	A	676	193.515	109.474	-66.682	1.00	53.61	A16S



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ATOM	14085	C4	A	A	676	193.016	108.196	-66.683	1.00	53.61	A16S
ATOM	14086	N3	A	A	676	192.976	107.343	-65.654	1.00	53.61	A16S
ATOM	14087	C2	A	A	676	192.428	106.191	-66.024	1.00	53.61	A16S
ATOM	14088	N1	A	A	676	191.956	105.823	-67.212	1.00	53.61	A16S
ATOM	14089	C6	A	A	676	192.011	106.703	-68.224	1.00	53.61	A16S
ATOM	14090	N6	A	A	676	191.544	106.326	-69.409	1.00	53.61	A16S
ATOM	14091	C5	A	A	676	192.564	107.966	-67.962	1.00	53.61	A16S
ATOM	14092	N7	A	A	676	192.761	109.085	-68.759	1.00	53.61	A16S
ATOM	14093	C8	A	A	676	193.330	109.950	-67.956	1.00	53.61	A16S
ATOM	14094	C2*	A	A	676	195.513	109.610	-65.229	1.00	67.87	A16S
ATOM	14095	O2*	A	A	676	195.732	109.609	-63.835	1.00	67.87	A16S
ATOM	14096	C3*	A	A	676	196.383	110.623	-65.950	1.00	67.87	A16S
ATOM	14097	O3*	A	A	676	197.678	110.666	-65.420	1.00	67.87	A16S
ATOM	14098	P	U	A	677	198.782	109.680	-66.019	1.00	54.86	A16S
ATOM	14099	O1P	U	A	677	200.093	110.144	-65.524	1.00	58.80	A16S
ATOM	14100	O2P	U	A	677	198.546	109.576	-67.479	1.00	58.80	A16S
ATOM	14101	O5*	U	A	677	198.443	108.285	-65.336	1.00	54.86	A16S
ATOM	14102	C5*	U	A	677	198.546	108.154	-63.926	1.00	54.86	A16S
ATOM	14103	C4*	U	A	677	198.068	106.806	-63.487	1.00	54.86	A16S
ATOM	14104	O4*	U	A	677	196.676	106.648	-63.844	1.00	54.86	A16S
ATOM	14105	C1*	U	A	677	196.425	105.293	-64.175	1.00	54.86	A16S
ATOM	14106	N1	U	A	677	195.906	105.211	-65.553	1.00	58.80	A16S
ATOM	14107	C6	U	A	677	196.127	106.200	-66.479	1.00	58.80	A16S
ATOM	14108	C2	U	A	677	195.173	104.095	-65.887	1.00	58.80	A16S
ATOM	14109	O2	U	A	677	194.954	103.203	-65.108	1.00	58.80	A16S
ATOM	14110	N3	U	A	677	194.698	104.066	-67.166	1.00	58.80	A16S
ATOM	14111	C4	U	A	677	194.865	105.020	-68.130	1.00	58.80	A16S
ATOM	14112	O4	U	A	677	194.293	104.888	-69.211	1.00	58.80	A16S
ATOM	14113	C5	U	A	677	195.643	106.145	-67.723	1.00	58.80	A16S
ATOM	14114	C2*	U	A	677	197.728	104.521	-63.974	1.00	54.86	A16S
ATOM	14115	O2*	U	A	677	197.741	103.969	-62.670	1.00	54.86	A16S
ATOM	14116	C3*	U	A	677	198.757	105.627	-64.140	1.00	54.86	A16S
ATOM	14117	O3*	U	A	677	200.007	105.316	-63.540	1.00	54.86	A16S
ATOM	14118	P	U	A	678	201.165	104.654	-64.443	1.00	57.69	A16S
ATOM	14119	O1P	U	A	678	202.372	104.483	-63.584	1.00	54.64	A16S
ATOM	14120	O2P	U	A	678	201.262	105.475	-65.702	1.00	54.64	A16S
ATOM	14121	O5*	U	A	678	200.580	103.208	-64.781	1.00	57.69	A16S
ATOM	14122	C5*	U	A	678	200.364	102.249	-63.732	1.00	57.69	A16S
ATOM	14123	C4*	U	A	678	199.814	100.970	-64.299	1.00	57.69	A16S
ATOM	14124	O4*	U	A	678	198.451	101.173	-64.739	1.00	57.69	A16S
ATOM	14125	C1*	U	A	678	198.227	100.463	-65.942	1.00	57.69	A16S
ATOM	14126	N1	U	A	678	198.011	101.443	-67.017	1.00	54.64	A16S
ATOM	14127	C6	U	A	678	198.453	102.745	-66.900	1.00	54.64	A16S
ATOM	14128	C2	U	A	678	197.353	101.013	-68.157	1.00	54.64	A16S
ATOM	14129	O2	U	A	678	196.966	99.865	-68.300	1.00	54.64	A16S
ATOM	14130	N3	U	A	678	197.175	101.976	-69.121	1.00	54.64	A16S
ATOM	14131	C4	U	A	678	197.588	103.294	-69.062	1.00	54.64	A16S
ATOM	14132	O4	U	A	678	197.352	104.051	-70.011	1.00	54.64	A16S
ATOM	14133	C5	U	A	678	198.270	103.654	-67.854	1.00	54.64	A16S
ATOM	14134	C2*	U	A	678	199.480	99.646	-66.236	1.00	57.69	A16S
ATOM	14135	O2*	U	A	678	199.365	98.347	-65.705	1.00	57.69	A16S
ATOM	14136	C3*	U	A	678	200.540	100.467	-65.530	1.00	57.69	A16S
ATOM	14137	O3*	U	A	678	201.690	99.701	-65.224	1.00	57.69	A16S
ATOM	14138	P	C	A	679	202.895	99.639	-66.285	1.00	62.77	A16S
ATOM	14139	O1P	C	A	679	203.993	98.908	-65.602	1.00	51.37	A16S
ATOM	14140	O2P	C	A	679	203.147	101.011	-66.829	1.00	51.37	A16S
ATOM	14141	O5*	C	A	679	202.295	98.738	-67.451	1.00	62.77	A16S
ATOM	14142	C5*	C	A	679	201.835	97.411	-67.178	1.00	62.77	A16S
ATOM	14143	C4*	C	A	679	201.224	96.814	-68.413	1.00	62.77	A16S
ATOM	14144	O4*	C	A	679	200.009	97.534	-68.726	1.00	62.77	A16S
ATOM	14145	C1*	C	A	679	199.871	97.643	-70.128	1.00	62.77	A16S
ATOM	14146	N1	C	A	679	199.879	99.069	-70.483	1.00	51.37	A16S
ATOM	14147	C6	C	A	679	200.696	99.948	-69.833	1.00	51.37	A16S
ATOM	14148	C2	C	A	679	199.027	99.516	-71.502	1.00	51.37	A16S
ATOM	14149	O2	C	A	679	198.322	98.687	-72.106	1.00	51.37	A16S
ATOM	14150	N3	C	A	679	198.998	100.829	-71.812	1.00	51.37	A16S
ATOM	14151	C4	C	A	679	199.794	101.678	-71.167	1.00	51.37	A16S
ATOM	14152	N4	C	A	679	199.738	102.966	-71.505	1.00	51.37	A16S
ATOM	14153	C5	C	A	679	200.689	101.248	-70.143	1.00	51.37	A16S
ATOM	14154	C2*	C	A	679	201.025	96.884	-70.777	1.00	62.77	A16S
ATOM	14155	O2*	C	A	679	200.595	95.573	-71.077	1.00	62.77	A16S
ATOM	14156	C3*	C	A	679	202.070	96.927	-69.671	1.00	62.77	A16S
ATOM	14157	O3*	C	A	679	203.051	95.895	-69.780	1.00	62.77	A16S
ATOM	14158	P	C	A	680	204.416	96.183	-70.587	1.00	77.59	A16S
ATOM	14159	O1P	C	A	680	205.289	95.003	-70.387	1.00	78.15	A16S
ATOM	14160	O2P	C	A	680	204.923	97.545	-70.268	1.00	78.15	A16S
ATOM	14161	O5*	C	A	680	203.959	96.203	-72.107	1.00	77.59	A16S



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ATOM	14162	C5*	C	A	680	203.468	95.011	-72.732	1.00	77.59	A16S
ATOM	14163	C4*	C	A	680	203.033	95.310	-74.142	1.00	77.59	A16S
ATOM	14164	O4*	C	A	680	201.861	96.162	-74.123	1.00	77.59	A16S
ATOM	14165	C1*	C	A	680	201.894	97.031	-75.238	1.00	77.59	A16S
ATOM	14166	N1	C	A	680	201.892	98.421	-74.771	1.00	78.15	A16S
ATOM	14167	C6	C	A	680	202.312	98.758	-73.514	1.00	78.15	A16S
ATOM	14168	C2	C	A	680	201.453	99.403	-75.654	1.00	78.15	A16S
ATOM	14169	O2	C	A	680	201.080	99.059	-76.788	1.00	78.15	A16S
ATOM	14170	N3	C	A	680	201.444	100.695	-75.262	1.00	78.15	A16S
ATOM	14171	C4	C	A	680	201.853	101.019	-74.037	1.00	78.15	A16S
ATOM	14172	N4	C	A	680	201.825	102.309	-73.695	1.00	78.15	A16S
ATOM	14173	C5	C	A	680	202.309	100.035	-73.108	1.00	78.15	A16S
ATOM	14174	C2*	C	A	680	203.158	96.735	-76.036	1.00	77.59	A16S
ATOM	14175	O2*	C	A	680	202.829	95.890	-77.119	1.00	77.59	A16S
ATOM	14176	C3*	C	A	680	204.035	96.079	-74.981	1.00	77.59	A16S
ATOM	14177	O3*	C	A	680	205.028	95.246	-75.544	1.00	77.59	A16S
ATOM	14178	P	C	A	681	206.410	95.898	-76.024	1.00	77.41	A16S
ATOM	14179	O1P	C	A	681	207.285	94.796	-76.505	1.00	92.63	A16S
ATOM	14180	O2P	C	A	681	206.893	96.798	-74.949	1.00	92.63	A16S
ATOM	14181	O5*	C	A	681	205.978	96.797	-77.267	1.00	77.41	A16S
ATOM	14182	C5*	C	A	681	205.475	96.187	-78.465	1.00	77.41	A16S
ATOM	14183	C4*	C	A	681	205.312	97.218	-79.548	1.00	77.41	A16S
ATOM	14184	O4*	C	A	681	204.210	98.102	-79.222	1.00	77.41	A16S
ATOM	14185	C1*	C	A	681	204.497	99.414	-79.688	1.00	77.41	A16S
ATOM	14186	N1	C	A	681	204.516	100.342	-78.533	1.00	92.63	A16S
ATOM	14187	C6	C	A	681	204.780	99.889	-77.270	1.00	92.63	A16S
ATOM	14188	C2	C	A	681	204.283	101.715	-78.756	1.00	92.63	A16S
ATOM	14189	O2	C	A	681	204.003	102.102	-79.898	1.00	92.63	A16S
ATOM	14190	N3	C	A	681	204.365	102.579	-77.719	1.00	92.63	A16S
ATOM	14191	C4	C	A	681	204.650	102.126	-76.497	1.00	92.63	A16S
ATOM	14192	N4	C	A	681	204.748	103.015	-75.508	1.00	92.63	A16S
ATOM	14193	C5	C	A	681	204.855	100.738	-76.234	1.00	92.63	A16S
ATOM	14194	C2*	C	A	681	205.854	99.365	-80.396	1.00	77.41	A16S
ATOM	14195	O2*	C	A	681	205.696	99.196	-81.792	1.00	77.41	A16S
ATOM	14196	C3*	C	A	681	206.492	98.151	-79.742	1.00	77.41	A16S
ATOM	14197	O3*	C	A	681	207.525	97.606	-80.530	1.00	77.41	A16S
ATOM	14198	P	G	A	682	209.020	98.160	-80.342	1.00	76.30	A16S
ATOM	14199	O1P	G	A	682	209.894	97.338	-81.217	1.00	95.16	A16S
ATOM	14200	O2P	G	A	682	209.332	98.269	-78.898	1.00	95.16	A16S
ATOM	14201	O5*	G	A	682	208.945	99.634	-80.928	1.00	76.30	A16S
ATOM	14202	C5*	G	A	682	208.688	99.820	-82.311	1.00	76.30	A16S
ATOM	14203	C4*	G	A	682	208.633	101.279	-82.650	1.00	76.30	A16S
ATOM	14204	O4*	G	A	682	207.430	101.868	-82.105	1.00	76.30	A16S
ATOM	14205	C1*	G	A	682	207.665	103.236	-81.828	1.00	76.30	A16S
ATOM	14206	N9	G	A	682	207.518	103.463	-80.394	1.00	95.16	A16S
ATOM	14207	C4	G	A	682	207.432	104.688	-79.800	1.00	95.16	A16S
ATOM	14208	N3	G	A	682	207.399	105.872	-80.445	1.00	95.16	A16S
ATOM	14209	C2	G	A	682	207.343	106.886	-79.609	1.00	95.16	A16S
ATOM	14210	N2	G	A	682	207.285	108.136	-80.094	1.00	95.16	A16S
ATOM	14211	N1	G	A	682	207.338	106.747	-78.240	1.00	95.16	A16S
ATOM	14212	C6	G	A	682	207.384	105.532	-77.558	1.00	95.16	A16S
ATOM	14213	O6	G	A	682	207.402	105.514	-76.326	1.00	95.16	A16S
ATOM	14214	C5	G	A	682	207.419	104.440	-78.446	1.00	95.16	A16S
ATOM	14215	N7	G	A	682	207.449	103.077	-78.193	1.00	95.16	A16S
ATOM	14216	C8	G	A	682	207.497	102.534	-79.379	1.00	95.16	A16S
ATOM	14217	C2*	G	A	682	209.108	103.543	-82.232	1.00	76.30	A16S
ATOM	14218	O2*	G	A	682	209.137	104.051	-83.548	1.00	76.30	A16S
ATOM	14219	C3*	G	A	682	209.746	102.168	-82.132	1.00	76.30	A16S
ATOM	14220	O3*	G	A	682	210.938	102.081	-82.886	1.00	76.30	A16S
ATOM	14221	P	G	A	683	212.338	102.476	-82.196	1.00	85.01	A16S
ATOM	14222	O1P	G	A	683	213.394	102.160	-83.181	1.00	85.82	A16S
ATOM	14223	O2P	G	A	683	212.418	101.892	-80.826	1.00	85.82	A16S
ATOM	14224	O5*	G	A	683	212.260	104.060	-82.083	1.00	85.01	A16S
ATOM	14225	C5*	G	A	683	211.983	104.852	-83.243	1.00	85.01	A16S
ATOM	14226	C4*	G	A	683	211.920	106.311	-82.878	1.00	85.01	A16S
ATOM	14227	O4*	G	A	683	210.764	106.574	-82.040	1.00	85.01	A16S
ATOM	14228	C1*	G	A	683	211.082	107.590	-81.098	1.00	85.01	A16S
ATOM	14229	N9	G	A	683	210.884	107.051	-79.749	1.00	85.82	A16S
ATOM	14230	C4	G	A	683	210.712	107.770	-78.579	1.00	85.82	A16S
ATOM	14231	N3	G	A	683	210.696	109.113	-78.463	1.00	85.82	A16S
ATOM	14232	C2	G	A	683	210.507	109.502	-77.212	1.00	85.82	A16S
ATOM	14233	N2	G	A	683	210.470	110.808	-76.925	1.00	85.82	A16S
ATOM	14234	N1	G	A	683	210.341	108.641	-76.155	1.00	85.82	A16S
ATOM	14235	C6	G	A	683	210.346	107.253	-76.248	1.00	85.82	A16S
ATOM	14236	O6	G	A	683	210.172	106.562	-75.230	1.00	85.82	A16S
ATOM	14237	C5	G	A	683	210.558	106.822	-77.587	1.00	85.82	A16S
ATOM	14238	N7	G	A	683	210.638	105.541	-78.115	1.00	85.82	A16S



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ATOM	14239	C8	G	A	683	210.829	105.724	-79.394	1.00	85.82	A16S
ATOM	14240	C2*	G	A	683	212.522	108.043	-81.377	1.00	85.01	A16S
ATOM	14241	O2*	G	A	683	212.529	109.171	-82.233	1.00	85.01	A16S
ATOM	14242	C3*	G	A	683	213.104	106.828	-82.083	1.00	85.01	A16S
ATOM	14243	O3*	G	A	683	214.182	107.187	-82.931	1.00	85.01	A16S
ATOM	14244	P	A	A	684	215.688	107.003	-82.413	1.00	70.91	A16S
ATOM	14245	O1P	A	A	684	216.603	107.240	-83.563	1.00	81.24	A16S
ATOM	14246	O2P	A	A	684	215.761	105.718	-81.668	1.00	81.24	A16S
ATOM	14247	O5*	A	A	684	215.893	108.190	-81.372	1.00	70.91	A16S
ATOM	14248	C5*	A	A	684	215.898	109.565	-81.796	1.00	70.91	A16S
ATOM	14249	C4*	A	A	684	215.794	110.474	-80.596	1.00	70.91	A16S
ATOM	14250	O4*	A	A	684	214.511	110.254	-79.960	1.00	70.91	A16S
ATOM	14251	C1*	A	A	684	214.653	110.300	-78.550	1.00	70.91	A16S
ATOM	14252	N9	A	A	684	214.362	108.963	-78.027	1.00	81.24	A16S
ATOM	14253	C4	A	A	684	214.019	108.629	-76.738	1.00	81.24	A16S
ATOM	14254	N3	A	A	684	213.867	109.455	-75.692	1.00	81.24	A16S
ATOM	14255	C2	A	A	684	213.546	108.771	-74.597	1.00	81.24	A16S
ATOM	14256	N1	A	A	684	213.373	107.456	-74.439	1.00	81.24	A16S
ATOM	14257	C6	A	A	684	213.520	106.655	-75.512	1.00	81.24	A16S
ATOM	14258	N6	A	A	684	213.326	105.345	-75.360	1.00	81.24	A16S
ATOM	14259	C5	A	A	684	213.865	107.255	-76.733	1.00	81.24	A16S
ATOM	14260	N7	A	A	684	214.096	106.731	-77.995	1.00	81.24	A16S
ATOM	14261	C8	A	A	684	214.384	107.781	-78.722	1.00	81.24	A16S
ATOM	14262	C2*	A	A	684	216.086	110.728	-78.255	1.00	70.91	A16S
ATOM	14263	O2*	A	A	684	216.143	112.139	-78.154	1.00	70.91	A16S
ATOM	14264	C3*	A	A	684	216.805	110.212	-79.491	1.00	70.91	A16S
ATOM	14265	O3*	A	A	684	218.049	110.855	-79.711	1.00	70.91	A16S
ATOM	14266	P	G	A	685	219.400	110.165	-79.168	1.00	76.55	A16S
ATOM	14267	O1P	G	A	685	220.545	111.041	-79.512	1.00	81.45	A16S
ATOM	14268	O2P	G	A	685	219.411	108.730	-79.580	1.00	81.45	A16S
ATOM	14269	O5*	G	A	685	219.248	110.252	-77.593	1.00	76.55	A16S
ATOM	14270	C5*	G	A	685	219.016	111.518	-76.956	1.00	76.55	A16S
ATOM	14271	C4*	G	A	685	218.751	111.303	-75.501	1.00	76.55	A16S
ATOM	14272	O4*	G	A	685	217.499	110.597	-75.338	1.00	76.55	A16S
ATOM	14273	C1*	G	A	685	217.599	109.720	-74.237	1.00	76.55	A16S
ATOM	14274	N9	G	A	685	217.203	108.380	-74.644	1.00	81.45	A16S
ATOM	14275	C4	G	A	685	216.846	107.379	-73.782	1.00	81.45	A16S
ATOM	14276	N3	G	A	685	216.809	107.477	-72.438	1.00	81.45	A16S
ATOM	14277	C2	G	A	685	216.429	106.352	-71.875	1.00	81.45	A16S
ATOM	14278	N2	G	A	685	216.344	106.273	-70.543	1.00	81.45	A16S
ATOM	14279	N1	G	A	685	216.106	105.222	-72.573	1.00	81.45	A16S
ATOM	14280	C6	G	A	685	216.136	105.099	-73.955	1.00	81.45	A16S
ATOM	14281	O6	G	A	685	215.822	104.030	-74.480	1.00	81.45	A16S
ATOM	14282	C5	G	A	685	216.548	106.299	-74.576	1.00	81.45	A16S
ATOM	14283	N7	G	A	685	216.719	106.613	-75.918	1.00	81.45	A16S
ATOM	14284	C8	G	A	685	217.110	107.859	-75.910	1.00	81.45	A16S
ATOM	14285	C2*	G	A	685	219.025	109.769	-73.693	1.00	76.55	A16S
ATOM	14286	O2*	G	A	685	219.048	110.488	-72.476	1.00	76.55	A16S
ATOM	14287	C3*	G	A	685	219.779	110.399	-74.858	1.00	76.55	A16S
ATOM	14288	O3*	G	A	685	220.914	111.146	-74.476	1.00	76.55	A16S
ATOM	14289	P	U	A	686	222.284	110.383	-74.155	1.00	65.19	A16S
ATOM	14290	O1P	U	A	686	223.255	111.392	-73.642	1.00	74.42	A16S
ATOM	14291	O2P	U	A	686	222.669	109.481	-75.272	1.00	74.42	A16S
ATOM	14292	O5*	U	A	686	221.878	109.427	-72.969	1.00	65.19	A16S
ATOM	14293	C5*	U	A	686	222.864	108.945	-72.111	1.00	65.19	A16S
ATOM	14294	C4*	U	A	686	222.438	109.168	-70.709	1.00	65.19	A16S
ATOM	14295	O4*	U	A	686	221.137	108.554	-70.534	1.00	65.19	A16S
ATOM	14296	C1*	U	A	686	221.232	107.528	-69.572	1.00	65.19	A16S
ATOM	14297	N1	U	A	686	220.321	106.435	-69.946	1.00	74.42	A16S
ATOM	14298	C6	U	A	686	220.161	106.034	-71.249	1.00	74.42	A16S
ATOM	14299	C2	U	A	686	219.615	105.822	-68.926	1.00	74.42	A16S
ATOM	14300	O2	U	A	686	219.731	106.137	-67.759	1.00	74.42	A16S
ATOM	14301	N3	U	A	686	218.767	104.821	-69.319	1.00	74.42	A16S
ATOM	14302	C4	U	A	686	218.554	104.370	-70.598	1.00	74.42	A16S
ATOM	14303	O4	U	A	686	217.735	103.467	-70.793	1.00	74.42	A16S
ATOM	14304	C5	U	A	686	219.323	105.049	-71.603	1.00	74.42	A16S
ATOM	14305	C2*	U	A	686	222.714	107.157	-69.479	1.00	65.19	A16S
ATOM	14306	O2*	U	A	686	223.043	106.614	-68.221	1.00	65.19	A16S
ATOM	14307	C3*	U	A	686	223.381	108.508	-69.728	1.00	65.19	A16S
ATOM	14308	O3*	U	A	686	223.402	109.333	-68.572	1.00	65.19	A16S
ATOM	14309	P	A	A	687	224.650	109.283	-67.562	1.00	47.27	A16S
ATOM	14310	O1P	A	A	687	224.851	110.692	-67.071	1.00	61.51	A16S
ATOM	14311	O2P	A	A	687	225.784	108.538	-68.176	1.00	61.51	A16S
ATOM	14312	O5*	A	A	687	224.145	108.381	-66.356	1.00	47.27	A16S
ATOM	14313	C5*	A	A	687	223.331	108.921	-65.312	1.00	47.27	A16S
ATOM	14314	C4*	A	A	687	222.797	107.794	-64.489	1.00	47.27	A16S
ATOM	14315	O4*	A	A	687	221.960	106.974	-65.317	1.00	47.27	A16S



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ATOM	14316	C1*	A	A	687	221.887	105.700	-64.734	1.00	47.27	A16S
ATOM	14317	N9	A	A	687	221.429	104.764	-65.766	1.00	61.51	A16S
ATOM	14318	C4	A	A	687	220.344	103.923	-65.669	1.00	61.51	A16S
ATOM	14319	N3	A	A	687	219.517	103.769	-64.620	1.00	61.51	A16S
ATOM	14320	C2	A	A	687	218.580	102.864	-64.886	1.00	61.51	A16S
ATOM	14321	N1	A	A	687	218.387	102.148	-65.994	1.00	61.51	A16S
ATOM	14322	C6	A	A	687	219.235	102.325	-67.034	1.00	61.51	A16S
ATOM	14323	N6	A	A	687	219.047	101.611	-68.147	1.00	61.51	A16S
ATOM	14324	C5	A	A	687	220.274	103.258	-66.879	1.00	61.51	A16S
ATOM	14325	N7	A	A	687	221.297	103.666	-67.724	1.00	61.51	A16S
ATOM	14326	C8	A	A	687	221.954	104.550	-67.017	1.00	61.51	A16S
ATOM	14327	C2*	A	A	687	223.266	105.432	-64.114	1.00	47.27	A16S
ATOM	14328	O2*	A	A	687	223.236	104.628	-62.946	1.00	47.27	A16S
ATOM	14329	C3*	A	A	687	223.882	106.843	-64.017	1.00	47.27	A16S
ATOM	14330	O3*	A	A	687	224.459	107.327	-62.795	1.00	47.27	A16S
ATOM	14331	P	G	A	688	223.618	107.314	-61.421	1.00	63.11	A16S
ATOM	14332	O1P	G	A	688	224.537	107.779	-60.370	1.00	40.32	A16S
ATOM	14333	O2P	G	A	688	222.884	106.043	-61.230	1.00	40.32	A16S
ATOM	14334	O5*	G	A	688	222.539	108.462	-61.599	1.00	63.11	A16S
ATOM	14335	C5*	G	A	688	221.371	108.466	-60.775	1.00	63.11	A16S
ATOM	14336	C4*	G	A	688	220.175	108.006	-61.571	1.00	63.11	A16S
ATOM	14337	O4*	G	A	688	220.364	106.647	-62.051	1.00	63.11	A16S
ATOM	14338	C1*	G	A	688	219.117	105.960	-62.058	1.00	63.11	A16S
ATOM	14339	N9	G	A	688	219.191	104.883	-61.078	1.00	40.32	A16S
ATOM	14340	C4	G	A	688	218.281	103.867	-60.886	1.00	40.32	A16S
ATOM	14341	N3	G	A	688	217.147	103.671	-61.585	1.00	40.32	A16S
ATOM	14342	C2	G	A	688	216.501	102.581	-61.182	1.00	40.32	A16S
ATOM	14343	N2	G	A	688	215.375	102.198	-61.806	1.00	40.32	A16S
ATOM	14344	N1	G	A	688	216.917	101.779	-60.149	1.00	40.32	A16S
ATOM	14345	C6	G	A	688	218.072	101.980	-59.403	1.00	40.32	A16S
ATOM	14346	O6	G	A	688	218.349	101.216	-58.473	1.00	40.32	A16S
ATOM	14347	C5	G	A	688	218.790	103.112	-59.849	1.00	40.32	A16S
ATOM	14348	N7	G	A	688	219.991	103.637	-59.400	1.00	40.32	A16S
ATOM	14349	C8	G	A	688	220.187	104.686	-60.152	1.00	40.32	A16S
ATOM	14350	C2*	G	A	688	218.057	106.968	-61.639	1.00	63.11	A16S
ATOM	14351	O2*	G	A	688	217.560	107.657	-62.771	1.00	63.11	A16S
ATOM	14352	C3*	G	A	688	218.884	107.909	-60.790	1.00	63.11	A16S
ATOM	14353	O3*	G	A	688	218.256	109.143	-60.595	1.00	63.11	A16S
ATOM	14354	P	C	A	689	217.498	109.385	-59.218	1.00	61.17	A16S
ATOM	14355	O1P	C	A	689	217.333	110.848	-59.075	1.00	39.17	A16S
ATOM	14356	O2P	C	A	689	218.242	108.626	-58.174	1.00	39.17	A16S
ATOM	14357	O5*	C	A	689	216.090	108.681	-59.455	1.00	61.17	A16S
ATOM	14358	C5*	C	A	689	215.333	108.946	-60.647	1.00	61.17	A16S
ATOM	14359	C4*	C	A	689	214.293	107.867	-60.864	1.00	61.17	A16S
ATOM	14360	O4*	C	A	689	214.951	106.580	-60.967	1.00	61.17	A16S
ATOM	14361	C1*	C	A	689	214.122	105.574	-60.421	1.00	61.17	A16S
ATOM	14362	N1	C	A	689	214.811	104.965	-59.278	1.00	39.17	A16S
ATOM	14363	C6	C	A	689	216.015	105.442	-58.850	1.00	39.17	A16S
ATOM	14364	C2	C	A	689	214.210	103.872	-58.633	1.00	39.17	A16S
ATOM	14365	O2	C	A	689	213.109	103.468	-59.039	1.00	39.17	A16S
ATOM	14366	N3	C	A	689	214.839	103.291	-57.595	1.00	39.17	A16S
ATOM	14367	C4	C	A	689	216.019	103.758	-57.192	1.00	39.17	A16S
ATOM	14368	N4	C	A	689	216.618	103.151	-56.166	1.00	39.17	A16S
ATOM	14369	C5	C	A	689	216.647	104.873	-57.823	1.00	39.17	A16S
ATOM	14370	C2*	C	A	689	212.820	106.232	-59.989	1.00	61.17	A16S
ATOM	14371	O2*	C	A	689	211.905	106.111	-61.055	1.00	61.17	A16S
ATOM	14372	C3*	C	A	689	213.272	107.661	-59.758	1.00	61.17	A16S
ATOM	14373	O3*	C	A	689	212.188	108.554	-59.860	1.00	61.17	A16S
ATOM	14374	P	G	A	690	211.672	109.301	-58.546	1.00	54.55	A16S
ATOM	14375	O1P	G	A	690	210.681	110.293	-59.025	1.00	44.77	A16S
ATOM	14376	O2P	G	A	690	212.847	109.744	-57.754	1.00	44.77	A16S
ATOM	14377	O5*	G	A	690	210.939	108.172	-57.709	1.00	54.55	A16S
ATOM	14378	C5*	G	A	690	209.925	107.370	-58.304	1.00	54.55	A16S
ATOM	14379	C4*	G	A	690	209.720	106.126	-57.485	1.00	54.55	A16S
ATOM	14380	O4*	G	A	690	210.957	105.378	-57.453	1.00	54.55	A16S
ATOM	14381	C1*	G	A	690	211.141	104.813	-56.173	1.00	54.55	A16S
ATOM	14382	N9	G	A	690	212.410	105.302	-55.657	1.00	44.77	A16S
ATOM	14383	C4	G	A	690	213.234	104.642	-54.789	1.00	44.77	A16S
ATOM	14384	N3	G	A	690	212.984	103.447	-54.223	1.00	44.77	A16S
ATOM	14385	C2	G	A	690	213.980	103.059	-53.442	1.00	44.77	A16S
ATOM	14386	N2	G	A	690	213.895	101.897	-52.774	1.00	44.77	A16S
ATOM	14387	N1	G	A	690	215.134	103.781	-53.250	1.00	44.77	A16S
ATOM	14388	C6	G	A	690	215.412	105.012	-53.832	1.00	44.77	A16S
ATOM	14389	O6	G	A	690	216.497	105.576	-53.605	1.00	44.77	A16S
ATOM	14390	C5	G	A	690	214.346	105.450	-54.652	1.00	44.77	A16S
ATOM	14391	N7	G	A	690	214.206	106.614	-55.394	1.00	44.77	A16S
ATOM	14392	C8	G	A	690	213.040	106.488	-55.968	1.00	44.77	A16S



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ATOM	14393	C2*	G	A	690	209.921	105.153	-55.321	1.00	54.55	A16S
ATOM	14394	O2*	G	A	690	209.030	104.067	-55.404	1.00	54.55	A16S
ATOM	14395	C3*	G	A	690	209.379	106.388	-56.028	1.00	54.55	A16S
ATOM	14396	O3*	G	A	690	207.963	106.531	-55.898	1.00	54.55	A16S
ATOM	14397	P	G	A	691	207.361	107.766	-55.066	1.00	57.48	A16S
ATOM	14398	O1P	G	A	691	205.898	107.769	-55.324	1.00	65.67	A16S
ATOM	14399	O2P	G	A	691	208.146	108.994	-55.360	1.00	65.67	A16S
ATOM	14400	O5*	G	A	691	207.655	107.309	-53.573	1.00	57.48	A16S
ATOM	14401	C5*	G	A	691	207.116	106.079	-53.107	1.00	57.48	A16S
ATOM	14402	C4*	G	A	691	207.963	105.515	-52.009	1.00	57.48	A16S
ATOM	14403	O4*	G	A	691	209.254	105.113	-52.524	1.00	57.48	A16S
ATOM	14404	C1*	G	A	691	210.223	105.209	-51.486	1.00	57.48	A16S
ATOM	14405	N9	G	A	691	211.265	106.149	-51.881	1.00	65.67	A16S
ATOM	14406	C4	G	A	691	212.586	106.070	-51.540	1.00	65.67	A16S
ATOM	14407	N3	G	A	691	213.163	105.063	-50.846	1.00	65.67	A16S
ATOM	14408	C2	G	A	691	214.447	105.273	-50.659	1.00	65.67	A16S
ATOM	14409	N2	G	A	691	215.189	104.341	-50.032	1.00	65.67	A16S
ATOM	14410	N1	G	A	691	215.102	106.411	-51.090	1.00	65.67	A16S
ATOM	14411	C6	G	A	691	214.509	107.469	-51.795	1.00	65.67	A16S
ATOM	14412	O6	G	A	691	215.177	108.472	-52.123	1.00	65.67	A16S
ATOM	14413	C5	G	A	691	213.157	107.227	-52.028	1.00	65.67	A16S
ATOM	14414	N7	G	A	691	212.224	107.994	-52.703	1.00	65.67	A16S
ATOM	14415	C8	G	A	691	211.116	107.310	-52.602	1.00	65.67	A16S
ATOM	14416	C2*	G	A	691	209.520	105.747	-50.241	1.00	57.48	A16S
ATOM	14417	O2*	G	A	691	209.209	104.650	-49.403	1.00	57.48	A16S
ATOM	14418	C3*	G	A	691	208.305	106.439	-50.858	1.00	57.48	A16S
ATOM	14419	O3*	G	A	691	207.226	106.556	-49.959	1.00	57.48	A16S
ATOM	14420	P	U	A	692	206.881	107.985	-49.320	1.00	64.07	A16S
ATOM	14421	O1P	U	A	692	205.448	107.891	-48.958	1.00	75.51	A16S
ATOM	14422	O2P	U	A	692	207.340	109.073	-50.223	1.00	75.51	A16S
ATOM	14423	O5*	U	A	692	207.731	107.992	-47.977	1.00	64.07	A16S
ATOM	14424	C5*	U	A	692	207.582	106.908	-47.046	1.00	64.07	A16S
ATOM	14425	C4*	U	A	692	208.675	106.934	-46.015	1.00	64.07	A16S
ATOM	14426	O4*	U	A	692	209.925	106.439	-46.551	1.00	64.07	A16S
ATOM	14427	C1*	U	A	692	211.000	107.100	-45.911	1.00	64.07	A16S
ATOM	14428	N1	U	A	692	211.856	107.724	-46.933	1.00	75.51	A16S
ATOM	14429	C6	U	A	692	211.327	108.311	-48.055	1.00	75.51	A16S
ATOM	14430	C2	U	A	692	213.226	107.716	-46.719	1.00	75.51	A16S
ATOM	14431	O2	U	A	692	213.745	107.189	-45.751	1.00	75.51	A16S
ATOM	14432	N3	U	A	692	213.970	108.351	-47.681	1.00	75.51	A16S
ATOM	14433	C4	U	A	692	213.506	108.978	-48.813	1.00	75.51	A16S
ATOM	14434	O4	U	A	692	214.301	109.593	-49.541	1.00	75.51	A16S
ATOM	14435	C5	U	A	692	212.082	108.920	-48.977	1.00	75.51	A16S
ATOM	14436	C2*	U	A	692	210.410	108.095	-44.904	1.00	64.07	A16S
ATOM	14437	O2*	U	A	692	210.370	107.484	-43.635	1.00	64.07	A16S
ATOM	14438	C3*	U	A	692	209.002	108.300	-45.453	1.00	64.07	A16S
ATOM	14439	O3*	U	A	692	208.050	108.630	-44.449	1.00	64.07	A16S
ATOM	14440	P	G	A	693	207.917	110.147	-43.942	1.00	69.53	A16S
ATOM	14441	O1P	G	A	693	206.598	110.257	-43.261	1.00	41.49	A16S
ATOM	14442	O2P	G	A	693	208.211	111.049	-45.099	1.00	41.49	A16S
ATOM	14443	O5*	G	A	693	209.074	110.246	-42.842	1.00	69.53	A16S
ATOM	14444	C5*	G	A	693	209.248	111.434	-42.048	1.00	69.53	A16S
ATOM	14445	C4*	G	A	693	210.557	111.383	-41.293	1.00	69.53	A16S
ATOM	14446	O4*	G	A	693	210.473	110.480	-40.167	1.00	69.53	A16S
ATOM	14447	C1*	G	A	693	211.744	109.905	-39.931	1.00	69.53	A16S
ATOM	14448	N9	G	A	693	211.598	108.459	-39.822	1.00	41.49	A16S
ATOM	14449	C4	G	A	693	212.540	107.576	-39.354	1.00	41.49	A16S
ATOM	14450	N3	G	A	693	213.798	107.885	-38.980	1.00	41.49	A16S
ATOM	14451	C2	G	A	693	214.436	106.829	-38.501	1.00	41.49	A16S
ATOM	14452	N2	G	A	693	215.701	106.945	-38.072	1.00	41.49	A16S
ATOM	14453	N1	G	A	693	213.879	105.580	-38.401	1.00	41.49	A16S
ATOM	14454	C6	G	A	693	212.589	105.245	-38.790	1.00	41.49	A16S
ATOM	14455	O6	G	A	693	212.182	104.088	-38.645	1.00	41.49	A16S
ATOM	14456	C5	G	A	693	211.902	106.352	-39.306	1.00	41.49	A16S
ATOM	14457	N7	G	A	693	210.607	106.453	-39.786	1.00	41.49	A16S
ATOM	14458	C8	G	A	693	210.475	107.713	-40.098	1.00	41.49	A16S
ATOM	14459	C2*	G	A	693	212.708	110.398	-41.005	1.00	69.53	A16S
ATOM	14460	O2*	G	A	693	213.488	111.430	-40.449	1.00	69.53	A16S
ATOM	14461	C3*	G	A	693	211.751	110.893	-42.082	1.00	69.53	A16S
ATOM	14462	O3*	G	A	693	212.305	111.948	-42.834	1.00	69.53	A16S
ATOM	14463	P	A	A	694	213.177	111.605	-44.133	1.00	56.60	A16S
ATOM	14464	O1P	A	A	694	213.395	112.884	-44.856	1.00	54.36	A16S
ATOM	14465	O2P	A	A	694	212.531	110.456	-44.843	1.00	54.36	A16S
ATOM	14466	O5*	A	A	694	214.562	111.128	-43.515	1.00	56.60	A16S
ATOM	14467	C5*	A	A	694	215.347	110.156	-44.188	1.00	56.60	A16S
ATOM	14468	C4*	A	A	694	216.116	109.316	-43.206	1.00	56.60	A16S
ATOM	14469	O4*	A	A	694	215.247	108.828	-42.155	1.00	56.60	A16S



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ATOM	14470	C1*	A	A	694	215.558	107.475	-41.863	1.00	56.60	A16S
ATOM	14471	N9	A	A	694	214.365	106.655	-42.116	1.00	54.36	A16S
ATOM	14472	C4	A	A	694	214.230	105.308	-41.873	1.00	54.36	A16S
ATOM	14473	N3	A	A	694	215.157	104.478	-41.380	1.00	54.36	A16S
ATOM	14474	C2	A	A	694	214.668	103.244	-41.281	1.00	54.36	A16S
ATOM	14475	N1	A	A	694	213.449	102.783	-41.592	1.00	54.36	A16S
ATOM	14476	C6	A	A	694	212.540	103.648	-42.084	1.00	54.36	A16S
ATOM	14477	N6	A	A	694	211.318	103.191	-42.386	1.00	54.36	A16S
ATOM	14478	C5	A	A	694	212.936	104.983	-42.245	1.00	54.36	A16S
ATOM	14479	N7	A	A	694	212.267	106.096	-42.726	1.00	54.36	A16S
ATOM	14480	C8	A	A	694	213.152	107.061	-42.633	1.00	54.36	A16S
ATOM	14481	C2*	A	A	694	216.756	107.078	-42.723	1.00	56.60	A16S
ATOM	14482	O2*	A	A	694	217.905	107.237	-41.938	1.00	56.60	A16S
ATOM	14483	C3*	A	A	694	216.660	108.075	-43.871	1.00	56.60	A16S
ATOM	14484	O3*	A	A	694	217.877	108.382	-44.531	1.00	56.60	A16S
ATOM	14485	P	A	A	695	217.932	108.349	-46.144	1.00	70.98	A16S
ATOM	14486	O1P	A	A	695	219.200	109.003	-46.578	1.00	42.13	A16S
ATOM	14487	O2P	A	A	695	216.642	108.859	-46.691	1.00	42.13	A16S
ATOM	14488	O5*	A	A	695	218.026	106.788	-46.457	1.00	70.98	A16S
ATOM	14489	C5*	A	A	695	216.918	105.941	-46.167	1.00	70.98	A16S
ATOM	14490	C4*	A	A	695	217.377	104.626	-45.601	1.00	70.98	A16S
ATOM	14491	O4*	A	A	695	216.486	104.323	-44.506	1.00	70.98	A16S
ATOM	14492	C1*	A	A	695	215.896	103.055	-44.705	1.00	70.98	A16S
ATOM	14493	N9	A	A	695	214.521	103.271	-45.175	1.00	42.13	A16S
ATOM	14494	C4	A	A	695	213.481	102.368	-45.126	1.00	42.13	A16S
ATOM	14495	N3	A	A	695	213.501	101.120	-44.619	1.00	42.13	A16S
ATOM	14496	C2	A	A	695	212.319	100.540	-44.766	1.00	42.13	A16S
ATOM	14497	N1	A	A	695	211.205	101.025	-45.323	1.00	42.13	A16S
ATOM	14498	C6	A	A	695	211.219	102.283	-45.817	1.00	42.13	A16S
ATOM	14499	N6	A	A	695	210.111	102.766	-46.372	1.00	42.13	A16S
ATOM	14500	C5	A	A	695	212.402	103.006	-45.717	1.00	42.13	A16S
ATOM	14501	N7	A	A	695	212.740	104.291	-46.110	1.00	42.13	A16S
ATOM	14502	C8	A	A	695	214.002	104.402	-45.766	1.00	42.13	A16S
ATOM	14503	C2*	A	A	695	216.786	102.310	-45.701	1.00	70.98	A16S
ATOM	14504	O2*	A	A	695	217.820	101.663	-44.994	1.00	70.98	A16S
ATOM	14505	C3*	A	A	695	217.281	103.454	-46.579	1.00	70.98	A16S
ATOM	14506	O3*	A	A	695	218.549	103.173	-47.198	1.00	70.98	A16S
ATOM	14507	P	A	A	696	218.618	102.480	-48.662	1.00	53.56	A16S
ATOM	14508	O1P	A	A	696	220.049	102.172	-48.842	1.00	45.05	A16S
ATOM	14509	O2P	A	A	696	217.911	103.308	-49.715	1.00	45.05	A16S
ATOM	14510	O5*	A	A	696	217.879	101.076	-48.468	1.00	53.56	A16S
ATOM	14511	C5*	A	A	696	218.554	99.993	-47.805	1.00	53.56	A16S
ATOM	14512	C4*	A	A	696	217.609	98.849	-47.544	1.00	53.56	A16S
ATOM	14513	O4*	A	A	696	216.505	99.336	-46.750	1.00	53.56	A16S
ATOM	14514	C1*	A	A	696	215.301	98.737	-47.189	1.00	53.56	A16S
ATOM	14515	N9	A	A	696	214.521	99.781	-47.853	1.00	45.05	A16S
ATOM	14516	C4	A	A	696	213.180	99.775	-48.144	1.00	45.05	A16S
ATOM	14517	N3	A	A	696	212.297	98.791	-47.908	1.00	45.05	A16S
ATOM	14518	C2	A	A	696	211.092	99.142	-48.324	1.00	45.05	A16S
ATOM	14519	N1	A	A	696	210.697	100.283	-48.901	1.00	45.05	A16S
ATOM	14520	C6	A	A	696	211.616	101.257	-49.113	1.00	45.05	A16S
ATOM	14521	N6	A	A	696	211.235	102.417	-49.667	1.00	45.05	A16S
ATOM	14522	C5	A	A	696	212.921	101.000	-48.732	1.00	45.05	A16S
ATOM	14523	N7	A	A	696	214.076	101.759	-48.833	1.00	45.05	A16S
ATOM	14524	C8	A	A	696	214.996	100.993	-48.303	1.00	45.05	A16S
ATOM	14525	C2*	A	A	696	215.689	97.618	-48.150	1.00	53.56	A16S
ATOM	14526	O2*	A	A	696	215.944	96.442	-47.397	1.00	53.56	A16S
ATOM	14527	C3*	A	A	696	216.965	98.181	-48.750	1.00	53.56	A16S
ATOM	14528	O3*	A	A	696	217.774	97.138	-49.273	1.00	53.56	A16S
ATOM	14529	P	U	A	697	217.693	96.775	-50.840	1.00	64.29	A16S
ATOM	14530	O1P	U	A	697	218.853	95.892	-51.144	1.00	56.14	A16S
ATOM	14531	O2P	U	A	697	217.513	98.041	-51.611	1.00	56.14	A16S
ATOM	14532	O5*	U	A	697	216.350	95.920	-50.974	1.00	64.29	A16S
ATOM	14533	C5*	U	A	697	216.124	94.766	-50.151	1.00	64.29	A16S
ATOM	14534	C4*	U	A	697	214.658	94.416	-50.130	1.00	64.29	A16S
ATOM	14535	O4*	U	A	697	213.884	95.501	-49.548	1.00	64.29	A16S
ATOM	14536	C1*	U	A	697	212.603	95.561	-50.162	1.00	64.29	A16S
ATOM	14537	N1	U	A	697	212.405	96.880	-50.791	1.00	56.14	A16S
ATOM	14538	C6	U	A	697	213.458	97.671	-51.191	1.00	56.14	A16S
ATOM	14539	C2	U	A	697	211.093	97.307	-50.978	1.00	56.14	A16S
ATOM	14540	O2	U	A	697	210.126	96.645	-50.647	1.00	56.14	A16S
ATOM	14541	N3	U	A	697	210.952	98.536	-51.571	1.00	56.14	A16S
ATOM	14542	C4	U	A	697	211.955	99.370	-52.001	1.00	56.14	A16S
ATOM	14543	O4	U	A	697	211.658	100.422	-52.579	1.00	56.14	A16S
ATOM	14544	C5	U	A	697	213.283	98.870	-51.774	1.00	56.14	A16S
ATOM	14545	C2*	U	A	697	212.540	94.438	-51.192	1.00	64.29	A16S
ATOM	14546	O2*	U	A	697	211.901	93.303	-50.627	1.00	64.29	A16S



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ATOM	14547	C3*	U	A	697	214.017	94.217	-51.484	1.00	64.29	A16S
ATOM	14548	O3*	U	A	697	214.258	92.943	-52.019	1.00	64.29	A16S
ATOM	14549	P	G	A	698	214.500	92.797	-53.602	1.00	60.38	A16S
ATOM	14550	O1P	G	A	698	214.146	91.377	-53.928	1.00	42.47	A16S
ATOM	14551	O2P	G	A	698	215.854	93.325	-53.929	1.00	42.47	A16S
ATOM	14552	O5*	G	A	698	213.452	93.790	-54.278	1.00	60.38	A16S
ATOM	14553	C5*	G	A	698	212.064	93.478	-54.271	1.00	60.38	A16S
ATOM	14554	C4*	G	A	698	211.299	94.510	-55.033	1.00	60.38	A16S
ATOM	14555	O4*	G	A	698	211.441	95.789	-54.386	1.00	60.38	A16S
ATOM	14556	C1*	G	A	698	211.455	96.810	-55.364	1.00	60.38	A16S
ATOM	14557	N9	G	A	698	212.714	97.528	-55.249	1.00	42.47	A16S
ATOM	14558	C4	G	A	698	213.010	98.742	-55.802	1.00	42.47	A16S
ATOM	14559	N3	G	A	698	212.199	99.466	-56.582	1.00	42.47	A16S
ATOM	14560	C2	G	A	698	212.748	100.603	-56.940	1.00	42.47	A16S
ATOM	14561	N2	G	A	698	212.061	101.449	-57.718	1.00	42.47	A16S
ATOM	14562	N1	G	A	698	214.000	100.996	-56.561	1.00	42.47	A16S
ATOM	14563	C6	G	A	698	214.852	100.259	-55.746	1.00	42.47	A16S
ATOM	14564	O6	G	A	698	215.968	100.712	-55.425	1.00	42.47	A16S
ATOM	14565	C5	G	A	698	214.275	99.041	-55.372	1.00	42.47	A16S
ATOM	14566	N7	G	A	698	214.783	98.019	-54.592	1.00	42.47	A16S
ATOM	14567	C8	G	A	698	213.823	97.139	-54.551	1.00	42.47	A16S
ATOM	14568	C2*	G	A	698	211.293	96.157	-56.731	1.00	60.38	A16S
ATOM	14569	O2*	G	A	698	209.930	96.221	-57.091	1.00	60.38	A16S
ATOM	14570	C3*	G	A	698	211.780	94.746	-56.446	1.00	60.38	A16S
ATOM	14571	O3*	G	A	698	211.229	93.788	-57.327	1.00	60.38	A16S
ATOM	14572	P	C	A	699	212.140	93.186	-58.503	1.00	48.39	A16S
ATOM	14573	O1P	C	A	699	211.343	92.063	-59.094	1.00	47.97	A16S
ATOM	14574	O2P	C	A	699	213.487	92.910	-57.931	1.00	47.97	A16S
ATOM	14575	O5*	C	A	699	212.225	94.392	-59.543	1.00	48.39	A16S
ATOM	14576	C5*	C	A	699	211.040	94.800	-60.207	1.00	48.39	A16S
ATOM	14577	C4*	C	A	699	211.196	96.159	-60.815	1.00	48.39	A16S
ATOM	14578	O4*	C	A	699	211.452	97.155	-59.801	1.00	48.39	A16S
ATOM	14579	C1*	C	A	699	212.160	98.247	-60.381	1.00	48.39	A16S
ATOM	14580	N1	C	A	699	213.450	98.418	-59.683	1.00	47.97	A16S
ATOM	14581	C6	C	A	699	213.887	97.495	-58.772	1.00	47.97	A16S
ATOM	14582	C2	C	A	699	214.248	99.549	-59.991	1.00	47.97	A16S
ATOM	14583	O2	C	A	699	213.821	100.391	-60.809	1.00	47.97	A16S
ATOM	14584	N3	C	A	699	215.454	99.686	-59.394	1.00	47.97	A16S
ATOM	14585	C4	C	A	699	215.876	98.761	-58.529	1.00	47.97	A16S
ATOM	14586	N4	C	A	699	217.084	98.915	-57.988	1.00	47.97	A16S
ATOM	14587	C5	C	A	699	215.080	97.625	-58.182	1.00	47.97	A16S
ATOM	14588	C2*	C	A	699	212.412	97.887	-61.842	1.00	48.39	A16S
ATOM	14589	O2*	C	A	699	211.418	98.471	-62.668	1.00	48.39	A16S
ATOM	14590	C3*	C	A	699	212.330	96.372	-61.785	1.00	48.39	A16S
ATOM	14591	O3*	C	A	699	212.095	95.811	-63.046	1.00	48.39	A16S
ATOM	14592	P	G	A	700	213.320	95.141	-63.824	1.00	58.34	A16S
ATOM	14593	O1P	G	A	700	212.735	94.567	-65.070	1.00	52.84	A16S
ATOM	14594	O2P	G	A	700	214.058	94.259	-62.882	1.00	52.84	A16S
ATOM	14595	O5*	G	A	700	214.241	96.393	-64.168	1.00	58.34	A16S
ATOM	14596	C5*	G	A	700	213.760	97.398	-65.063	1.00	58.34	A16S
ATOM	14597	C4*	G	A	700	214.840	98.394	-65.372	1.00	58.34	A16S
ATOM	14598	O4*	G	A	700	215.031	99.281	-64.246	1.00	58.34	A16S
ATOM	14599	C1*	G	A	700	216.388	99.687	-64.188	1.00	58.34	A16S
ATOM	14600	N9	G	A	700	216.978	99.166	-62.962	1.00	52.84	A16S
ATOM	14601	C4	G	A	700	218.093	99.671	-62.341	1.00	52.84	A16S
ATOM	14602	N3	G	A	700	218.784	100.770	-62.724	1.00	52.84	A16S
ATOM	14603	C2	G	A	700	219.839	100.992	-61.957	1.00	52.84	A16S
ATOM	14604	N2	G	A	700	220.631	102.056	-62.194	1.00	52.84	A16S
ATOM	14605	N1	G	A	700	220.195	100.193	-60.905	1.00	52.84	A16S
ATOM	14606	C6	G	A	700	219.509	99.050	-60.498	1.00	52.84	A16S
ATOM	14607	O6	G	A	700	219.939	98.381	-59.546	1.00	52.84	A16S
ATOM	14608	C5	G	A	700	218.355	98.809	-61.306	1.00	52.84	A16S
ATOM	14609	N7	G	A	700	217.395	97.800	-61.246	1.00	52.84	A16S
ATOM	14610	C8	G	A	700	216.591	98.061	-62.240	1.00	52.84	A16S
ATOM	14611	C2*	G	A	700	217.108	99.044	-65.370	1.00	58.34	A16S
ATOM	14612	O2*	G	A	700	217.141	99.941	-66.457	1.00	58.34	A16S
ATOM	14613	C3*	G	A	700	216.225	97.837	-65.627	1.00	58.34	A16S
ATOM	14614	O3*	G	A	700	216.390	97.309	-66.919	1.00	58.34	A16S
ATOM	14615	P	C	A	701	217.446	96.124	-67.144	1.00	70.70	A16S
ATOM	14616	O1P	C	A	701	216.936	95.331	-68.292	1.00	73.13	A16S
ATOM	14617	O2P	C	A	701	217.679	95.445	-65.838	1.00	73.13	A16S
ATOM	14618	O5*	C	A	701	218.779	96.902	-67.570	1.00	70.70	A16S
ATOM	14619	C5*	C	A	701	218.926	97.454	-68.904	1.00	70.70	A16S
ATOM	14620	C4*	C	A	701	220.387	97.538	-69.310	1.00	70.70	A16S
ATOM	14621	O4*	C	A	701	220.941	98.851	-69.066	1.00	70.70	A16S
ATOM	14622	C1*	C	A	701	222.352	98.740	-69.109	1.00	70.70	A16S
ATOM	14623	N1	C	A	701	222.992	99.803	-68.300	1.00	73.13	A16S



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ATOM	14624	C6	C	A	701	222.487	100.182	-67.089	1.00	73.13	A16S
ATOM	14625	C2	C	A	701	224.155	100.428	-68.807	1.00	73.13	A16S
ATOM	14626	O2	C	A	701	224.609	100.068	-69.904	1.00	73.13	A16S
ATOM	14627	N3	C	A	701	224.756	101.402	-68.088	1.00	73.13	A16S
ATOM	14628	C4	C	A	701	224.257	101.757	-66.905	1.00	73.13	A16S
ATOM	14629	N4	C	A	701	224.892	102.715	-66.226	1.00	73.13	A16S
ATOM	14630	C5	C	A	701	223.084	101.143	-66.364	1.00	73.13	A16S
ATOM	14631	C2*	C	A	701	222.735	97.294	-68.765	1.00	70.70	A16S
ATOM	14632	O2*	C	A	701	223.618	96.776	-69.741	1.00	70.70	A16S
ATOM	14633	C3*	C	A	701	221.368	96.603	-68.621	1.00	70.70	A16S
ATOM	14634	O3*	C	A	701	221.247	95.237	-69.071	1.00	70.70	A16S
ATOM	14635	P	A	A	702	221.749	94.787	-70.544	1.00	63.34	A16S
ATOM	14636	O1P	A	A	702	222.757	93.707	-70.346	1.00	89.37	A16S
ATOM	14637	O2P	A	A	702	222.084	95.962	-71.401	1.00	89.37	A16S
ATOM	14638	O5*	A	A	702	220.465	94.102	-71.187	1.00	63.34	A16S
ATOM	14639	C5*	A	A	702	220.183	94.303	-72.565	1.00	63.34	A16S
ATOM	14640	C4*	A	A	702	218.745	94.000	-72.861	1.00	63.34	A16S
ATOM	14641	O4*	A	A	702	218.525	92.572	-72.796	1.00	63.34	A16S
ATOM	14642	C1*	A	A	702	217.352	92.307	-72.074	1.00	63.34	A16S
ATOM	14643	N9	A	A	702	217.530	91.038	-71.379	1.00	89.37	A16S
ATOM	14644	C4	A	A	702	216.765	89.919	-71.568	1.00	89.37	A16S
ATOM	14645	N3	A	A	702	215.740	89.773	-72.423	1.00	89.37	A16S
ATOM	14646	C2	A	A	702	215.216	88.554	-72.319	1.00	89.37	A16S
ATOM	14647	N1	A	A	702	215.570	87.545	-71.513	1.00	89.37	A16S
ATOM	14648	C6	A	A	702	216.600	87.732	-70.660	1.00	89.37	A16S
ATOM	14649	N6	A	A	702	216.930	86.739	-69.833	1.00	89.37	A16S
ATOM	14650	C5	A	A	702	217.252	88.975	-70.688	1.00	89.37	A16S
ATOM	14651	N7	A	A	702	218.328	89.478	-69.977	1.00	89.37	A16S
ATOM	14652	C8	A	A	702	218.452	90.703	-70.424	1.00	89.37	A16S
ATOM	14653	C2*	A	A	702	217.124	93.513	-71.164	1.00	63.34	A16S
ATOM	14654	O2*	A	A	702	215.744	93.623	-70.857	1.00	63.34	A16S
ATOM	14655	C3*	A	A	702	217.663	94.667	-72.020	1.00	63.34	A16S
ATOM	14656	O3*	A	A	702	216.681	95.159	-72.923	1.00	63.34	A16S
ATOM	14657	P	G	A	703	215.764	96.415	-72.516	1.00	70.12	A16S
ATOM	14658	O1P	G	A	703	214.579	95.832	-71.811	1.00	84.23	A16S
ATOM	14659	O2P	G	A	703	215.567	97.230	-73.738	1.00	84.23	A16S
ATOM	14660	O5*	G	A	703	216.627	97.292	-71.493	1.00	70.12	A16S
ATOM	14661	C5*	G	A	703	216.025	97.830	-70.287	1.00	70.12	A16S
ATOM	14662	C4*	G	A	703	216.323	99.312	-70.138	1.00	70.12	A16S
ATOM	14663	O4*	G	A	703	217.760	99.490	-70.074	1.00	70.12	A16S
ATOM	14664	C1*	G	A	703	218.175	100.406	-71.058	1.00	70.12	A16S
ATOM	14665	N9	G	A	703	219.435	99.927	-71.613	1.00	84.23	A16S
ATOM	14666	C4	G	A	703	220.640	100.585	-71.594	1.00	84.23	A16S
ATOM	14667	N3	G	A	703	220.874	101.794	-71.044	1.00	84.23	A16S
ATOM	14668	C2	G	A	703	222.135	102.164	-71.181	1.00	84.23	A16S
ATOM	14669	N2	G	A	703	222.548	103.343	-70.679	1.00	84.23	A16S
ATOM	14670	N1	G	A	703	223.089	101.408	-71.816	1.00	84.23	A16S
ATOM	14671	C6	G	A	703	222.874	100.158	-72.387	1.00	84.23	A16S
ATOM	14672	O6	G	A	703	223.816	99.555	-72.931	1.00	84.23	A16S
ATOM	14673	C5	G	A	703	221.525	99.748	-72.242	1.00	84.23	A16S
ATOM	14674	N7	G	A	703	220.891	98.585	-72.654	1.00	84.23	A16S
ATOM	14675	C8	G	A	703	219.655	98.735	-72.261	1.00	84.23	A16S
ATOM	14676	C2*	G	A	703	217.054	100.470	-72.094	1.00	70.12	A16S
ATOM	14677	O2*	G	A	703	217.049	101.726	-72.741	1.00	70.12	A16S
ATOM	14678	C3*	G	A	703	215.813	100.245	-71.237	1.00	70.12	A16S
ATOM	14679	O3*	G	A	703	215.408	101.505	-70.678	1.00	70.12	A16S
ATOM	14680	P	A	A	704	214.048	102.227	-71.182	1.00	56.19	A16S
ATOM	14681	O1P	A	A	704	213.383	101.308	-72.135	1.00	69.34	A16S
ATOM	14682	O2P	A	A	704	214.305	103.629	-71.587	1.00	69.34	A16S
ATOM	14683	O5*	A	A	704	213.176	102.289	-69.854	1.00	56.19	A16S
ATOM	14684	C5*	A	A	704	212.605	101.096	-69.307	1.00	56.19	A16S
ATOM	14685	C4*	A	A	704	212.658	101.126	-67.806	1.00	56.19	A16S
ATOM	14686	O4*	A	A	704	214.037	101.022	-67.370	1.00	56.19	A16S
ATOM	14687	C1*	A	A	704	214.221	101.783	-66.186	1.00	56.19	A16S
ATOM	14688	N9	A	A	704	215.115	102.899	-66.492	1.00	69.34	A16S
ATOM	14689	C4	A	A	704	215.495	103.875	-65.609	1.00	69.34	A16S
ATOM	14690	N3	A	A	704	215.156	103.971	-64.318	1.00	69.34	A16S
ATOM	14691	C2	A	A	704	215.686	105.059	-63.781	1.00	69.34	A16S
ATOM	14692	N1	A	A	704	216.457	105.989	-64.346	1.00	69.34	A16S
ATOM	14693	C6	A	A	704	216.779	105.861	-65.644	1.00	69.34	A16S
ATOM	14694	N6	A	A	704	217.545	106.792	-66.201	1.00	69.34	A16S
ATOM	14695	C5	A	A	704	216.282	104.752	-66.328	1.00	69.34	A16S
ATOM	14696	N7	A	A	704	216.417	104.329	-67.640	1.00	69.34	A16S
ATOM	14697	C8	A	A	704	215.713	103.224	-67.686	1.00	69.34	A16S
ATOM	14698	C2*	A	A	704	212.849	102.320	-65.780	1.00	56.19	A16S
ATOM	14699	O2*	A	A	704	212.261	101.401	-64.873	1.00	56.19	A16S
ATOM	14700	C3*	A	A	704	212.145	102.388	-67.131	1.00	56.19	A16S



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ATOM	14701	O3*	A	A 704	210.731	102.431	-67.037	1.00	56.19	A16S
ATOM	14702	P	U	A 705	209.941	103.711	-67.609	1.00	59.81	A16S
ATOM	14703	O1P	U	A 705	208.487	103.470	-67.376	1.00	75.04	A16S
ATOM	14704	O2P	U	A 705	210.416	104.011	-68.976	1.00	75.04	A16S
ATOM	14705	O5*	U	A 705	210.416	104.907	-66.669	1.00	59.81	A16S
ATOM	14706	C5*	U	A 705	210.028	104.927	-65.288	1.00	59.81	A16S
ATOM	14707	C4*	U	A 705	210.769	105.995	-64.523	1.00	59.81	A16S
ATOM	14708	O4*	U	A 705	212.196	105.809	-64.687	1.00	59.81	A16S
ATOM	14709	C1*	U	A 705	212.845	107.061	-64.580	1.00	59.81	A16S
ATOM	14710	N1	U	A 705	213.594	107.331	-65.814	1.00	75.04	A16S
ATOM	14711	C6	U	A 705	213.356	106.654	-66.984	1.00	75.04	A16S
ATOM	14712	C2	U	A 705	214.536	108.330	-65.754	1.00	75.04	A16S
ATOM	14713	O2	U	A 705	214.823	108.898	-64.722	1.00	75.04	A16S
ATOM	14714	N3	U	A 705	215.143	108.632	-66.939	1.00	75.04	A16S
ATOM	14715	C4	U	A 705	214.932	108.030	-68.151	1.00	75.04	A16S
ATOM	14716	O4	U	A 705	215.477	108.498	-69.157	1.00	75.04	A16S
ATOM	14717	C5	U	A 705	213.979	106.955	-68.125	1.00	75.04	A16S
ATOM	14718	C2*	U	A 705	211.772	108.127	-64.350	1.00	59.81	A16S
ATOM	14719	O2*	U	A 705	211.707	108.395	-62.961	1.00	59.81	A16S
ATOM	14720	C3*	U	A 705	210.525	107.444	-64.905	1.00	59.81	A16S
ATOM	14721	O3*	U	A 705	209.352	107.948	-64.282	1.00	59.81	A16S
ATOM	14722	P	A	A 706	208.247	108.738	-65.152	1.00	54.40	A16S
ATOM	14723	O1P	A	A 706	207.201	109.193	-64.202	1.00	66.80	A16S
ATOM	14724	O2P	A	A 706	207.870	107.888	-66.310	1.00	66.80	A16S
ATOM	14725	O5*	A	A 706	208.987	110.044	-65.669	1.00	54.40	A16S
ATOM	14726	C5*	A	A 706	209.275	111.117	-64.776	1.00	54.40	A16S
ATOM	14727	C4*	A	A 706	210.144	112.123	-65.466	1.00	54.40	A16S
ATOM	14728	O4*	A	A 706	211.443	111.529	-65.699	1.00	54.40	A16S
ATOM	14729	C1*	A	A 706	211.931	111.925	-66.979	1.00	54.40	A16S
ATOM	14730	N9	A	A 706	211.988	110.740	-67.838	1.00	66.80	A16S
ATOM	14731	C4	A	A 706	212.703	110.630	-68.999	1.00	66.80	A16S
ATOM	14732	N3	A	A 706	213.511	111.552	-69.545	1.00	66.80	A16S
ATOM	14733	C2	A	A 706	214.017	111.103	-70.680	1.00	66.80	A16S
ATOM	14734	N1	A	A 706	213.826	109.924	-71.283	1.00	66.80	A16S
ATOM	14735	C6	A	A 706	213.012	109.021	-70.698	1.00	66.80	A16S
ATOM	14736	N6	A	A 706	212.829	107.838	-71.284	1.00	66.80	A16S
ATOM	14737	C5	A	A 706	212.410	109.378	-69.501	1.00	66.80	A16S
ATOM	14738	N7	A	A 706	211.542	108.700	-68.665	1.00	66.80	A16S
ATOM	14739	C8	A	A 706	211.329	109.544	-67.691	1.00	66.80	A16S
ATOM	14740	C2*	A	A 706	210.935	112.925	-67.563	1.00	54.40	A16S
ATOM	14741	O2*	A	A 706	211.337	114.253	-67.287	1.00	54.40	A16S
ATOM	14742	C3*	A	A 706	209.661	112.503	-66.855	1.00	54.40	A16S
ATOM	14743	O3*	A	A 706	208.662	113.486	-66.853	1.00	54.40	A16S
ATOM	14744	P	C	A 707	207.354	113.239	-67.727	1.00	64.44	A16S
ATOM	14745	O1P	C	A 707	206.351	114.256	-67.347	1.00	59.46	A16S
ATOM	14746	O2P	C	A 707	207.027	111.784	-67.636	1.00	59.46	A16S
ATOM	14747	O5*	C	A 707	207.836	113.546	-69.204	1.00	64.44	A16S
ATOM	14748	C5*	C	A 707	208.353	114.833	-69.548	1.00	64.44	A16S
ATOM	14749	C4*	C	A 707	208.779	114.846	-70.994	1.00	64.44	A16S
ATOM	14750	O4*	C	A 707	209.939	113.989	-71.190	1.00	64.44	A16S
ATOM	14751	C1*	C	A 707	209.892	113.428	-72.494	1.00	64.44	A16S
ATOM	14752	N1	C	A 707	209.949	111.963	-72.392	1.00	59.46	A16S
ATOM	14753	C6	C	A 707	209.758	111.325	-71.202	1.00	59.46	A16S
ATOM	14754	C2	C	A 707	210.183	111.230	-73.552	1.00	59.46	A16S
ATOM	14755	O2	C	A 707	210.386	111.838	-74.608	1.00	59.46	A16S
ATOM	14756	N3	C	A 707	210.182	109.885	-73.497	1.00	59.46	A16S
ATOM	14757	C4	C	A 707	209.973	109.269	-72.338	1.00	59.46	A16S
ATOM	14758	N4	C	A 707	209.971	107.939	-72.332	1.00	59.46	A16S
ATOM	14759	C5	C	A 707	209.757	109.991	-71.131	1.00	59.46	A16S
ATOM	14760	C2*	C	A 707	208.601	113.900	-73.174	1.00	64.44	A16S
ATOM	14761	O2*	C	A 707	208.868	114.971	-74.061	1.00	64.44	A16S
ATOM	14762	C3*	C	A 707	207.753	114.306	-71.975	1.00	64.44	A16S
ATOM	14763	O3*	C	A 707	206.776	115.270	-72.298	1.00	64.44	A16S
ATOM	14764	P	C	A 708	205.351	114.787	-72.840	1.00	68.50	A16S
ATOM	14765	O1P	C	A 708	204.495	115.998	-72.877	1.00	69.55	A16S
ATOM	14766	O2P	C	A 708	204.915	113.594	-72.057	1.00	69.55	A16S
ATOM	14767	O5*	C	A 708	205.663	114.345	-74.338	1.00	68.50	A16S
ATOM	14768	C5*	C	A 708	206.088	115.319	-75.313	1.00	68.50	A16S
ATOM	14769	C4*	C	A 708	206.268	114.667	-76.660	1.00	68.50	A16S
ATOM	14770	O4*	C	A 708	207.388	113.757	-76.609	1.00	68.50	A16S
ATOM	14771	C1*	C	A 708	207.114	112.623	-77.408	1.00	68.50	A16S
ATOM	14772	N1	C	A 708	207.174	111.435	-76.555	1.00	69.55	A16S
ATOM	14773	C6	C	A 708	207.065	111.538	-75.198	1.00	69.55	A16S
ATOM	14774	C2	C	A 708	207.354	110.189	-77.155	1.00	69.55	A16S
ATOM	14775	O2	C	A 708	207.430	110.123	-78.393	1.00	69.55	A16S
ATOM	14776	N3	C	A 708	207.437	109.090	-76.378	1.00	69.55	A16S
ATOM	14777	C4	C	A 708	207.345	109.205	-75.055	1.00	69.55	A16S



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ATOM	14778	N4	C	A	708	207.456	108.103	-74.329	1.00	69.55	A16S
ATOM	14779	C5	C	A	708	207.142	110.459	-74.419	1.00	69.55	A16S
ATOM	14780	C2*	C	A	708	205.745	112.808	-78.055	1.00	68.50	A16S
ATOM	14781	O2*	C	A	708	205.901	113.329	-79.355	1.00	68.50	A16S
ATOM	14782	C3*	C	A	708	205.105	113.808	-77.112	1.00	68.50	A16S
ATOM	14783	O3*	C	A	708	204.125	114.569	-77.768	1.00	68.50	A16S
ATOM	14784	P	G	A	709	202.619	114.040	-77.772	1.00	77.23	A16S
ATOM	14785	O1P	G	A	709	201.749	115.171	-78.214	1.00	80.82	A16S
ATOM	14786	O2P	G	A	709	202.391	113.403	-76.448	1.00	80.82	A16S
ATOM	14787	O5*	G	A	709	202.627	112.885	-78.869	1.00	77.23	A16S
ATOM	14788	C5*	G	A	709	202.736	113.204	-80.266	1.00	77.23	A16S
ATOM	14789	C4*	G	A	709	202.763	111.944	-81.093	1.00	77.23	A16S
ATOM	14790	O4*	G	A	709	203.972	111.193	-80.817	1.00	77.23	A16S
ATOM	14791	C1*	G	A	709	203.703	109.807	-80.934	1.00	77.23	A16S
ATOM	14792	N9	G	A	709	203.957	109.174	-79.652	1.00	80.82	A16S
ATOM	14793	C4	G	A	709	204.035	107.827	-79.432	1.00	80.82	A16S
ATOM	14794	N3	G	A	709	203.948	106.868	-80.374	1.00	80.82	A16S
ATOM	14795	C2	G	A	709	204.020	105.658	-79.850	1.00	80.82	A16S
ATOM	14796	N2	G	A	709	203.956	104.588	-80.637	1.00	80.82	A16S
ATOM	14797	N1	G	A	709	204.161	105.409	-78.514	1.00	80.82	A16S
ATOM	14798	C6	G	A	709	204.256	106.383	-77.526	1.00	80.82	A16S
ATOM	14799	O6	G	A	709	204.379	106.050	-76.344	1.00	80.82	A16S
ATOM	14800	C5	G	A	709	204.186	107.686	-78.072	1.00	80.82	A16S
ATOM	14801	N7	G	A	709	204.241	108.927	-77.451	1.00	80.82	A16S
ATOM	14802	C8	G	A	709	204.111	109.781	-78.429	1.00	80.82	A16S
ATOM	14803	C2*	G	A	709	202.224	109.637	-81.277	1.00	77.23	A16S
ATOM	14804	O2*	G	A	709	202.040	109.403	-82.655	1.00	77.23	A16S
ATOM	14805	C3*	G	A	709	201.645	110.961	-80.810	1.00	77.23	A16S
ATOM	14806	O3*	G	A	709	200.458	111.269	-81.498	1.00	77.23	A16S
ATOM	14807	P	G	A	710	199.079	110.646	-80.980	1.00	85.60	A16S
ATOM	14808	O1P	G	A	710	198.020	111.192	-81.872	1.00	98.66	A16S
ATOM	14809	O2P	G	A	710	198.986	110.854	-79.511	1.00	98.66	A16S
ATOM	14810	O5*	G	A	710	199.231	109.086	-81.255	1.00	85.60	A16S
ATOM	14811	C5*	G	A	710	199.217	108.605	-82.599	1.00	85.60	A16S
ATOM	14812	C4*	G	A	710	199.319	107.108	-82.634	1.00	85.60	A16S
ATOM	14813	O4*	G	A	710	200.579	106.701	-82.054	1.00	85.60	A16S
ATOM	14814	C1*	G	A	710	200.430	105.426	-81.459	1.00	85.60	A16S
ATOM	14815	N9	G	A	710	200.754	105.518	-80.039	1.00	98.66	A16S
ATOM	14816	C4	G	A	710	200.872	104.450	-79.185	1.00	98.66	A16S
ATOM	14817	N3	G	A	710	200.715	103.154	-79.520	1.00	98.66	A16S
ATOM	14818	C2	G	A	710	200.876	102.353	-78.486	1.00	98.66	A16S
ATOM	14819	N2	G	A	710	200.749	101.033	-78.648	1.00	98.66	A16S
ATOM	14820	N1	G	A	710	201.169	102.787	-77.221	1.00	98.66	A16S
ATOM	14821	C6	G	A	710	201.331	104.115	-76.851	1.00	98.66	A16S
ATOM	14822	O6	G	A	710	201.585	104.394	-75.678	1.00	98.66	A16S
ATOM	14823	C5	G	A	710	201.162	104.991	-77.957	1.00	98.66	A16S
ATOM	14824	N7	G	A	710	201.231	106.377	-78.034	1.00	98.66	A16S
ATOM	14825	C8	G	A	710	200.984	106.645	-79.287	1.00	98.66	A16S
ATOM	14826	C2*	G	A	710	198.984	104.982	-81.662	1.00	85.60	A16S
ATOM	14827	O2*	G	A	710	198.925	104.155	-82.804	1.00	85.60	A16S
ATOM	14828	C3*	G	A	710	198.282	106.318	-81.857	1.00	85.60	A16S
ATOM	14829	O3*	G	A	710	197.049	106.179	-82.552	1.00	85.60	A16S
ATOM	14830	P	G	A	711	195.683	106.016	-81.710	1.00	69.31	A16S
ATOM	14831	O1P	G	A	711	194.543	106.095	-82.667	1.00	71.19	A16S
ATOM	14832	O2P	G	A	711	195.728	106.953	-80.556	1.00	71.19	A16S
ATOM	14833	O5*	G	A	711	195.763	104.522	-81.161	1.00	69.31	A16S
ATOM	14834	C5*	G	A	711	195.839	103.438	-82.081	1.00	69.31	A16S
ATOM	14835	C4*	G	A	711	196.145	102.161	-81.363	1.00	69.31	A16S
ATOM	14836	O4*	G	A	711	197.399	102.301	-80.659	1.00	69.31	A16S
ATOM	14837	C1*	G	A	711	197.392	101.458	-79.524	1.00	69.31	A16S
ATOM	14838	N9	G	A	711	197.683	102.249	-78.338	1.00	71.19	A16S
ATOM	14839	C4	G	A	711	197.866	101.745	-77.081	1.00	71.19	A16S
ATOM	14840	N3	G	A	711	197.807	100.444	-76.744	1.00	71.19	A16S
ATOM	14841	C2	G	A	711	198.042	100.258	-75.462	1.00	71.19	A16S
ATOM	14842	N2	G	A	711	198.037	99.010	-74.961	1.00	71.19	A16S
ATOM	14843	N1	G	A	711	198.302	101.277	-74.578	1.00	71.19	A16S
ATOM	14844	C6	G	A	711	198.362	102.624	-74.909	1.00	71.19	A16S
ATOM	14845	O6	G	A	711	198.605	103.458	-74.041	1.00	71.19	A16S
ATOM	14846	C5	G	A	711	198.119	102.832	-76.282	1.00	71.19	A16S
ATOM	14847	N7	G	A	711	198.091	104.004	-77.024	1.00	71.19	A16S
ATOM	14848	C8	G	A	711	197.826	103.610	-78.239	1.00	71.19	A16S
ATOM	14849	C2*	G	A	711	196.018	100.801	-79.426	1.00	69.31	A16S
ATOM	14850	O2*	G	A	711	196.116	99.478	-79.907	1.00	69.31	A16S
ATOM	14851	C3*	G	A	711	195.168	101.725	-80.290	1.00	69.31	A16S
ATOM	14852	O3*	G	A	711	194.043	101.054	-80.834	1.00	69.31	A16S
ATOM	14853	P	A	A	712	192.658	101.048	-80.020	1.00	59.55	A16S
ATOM	14854	O1P	A	A	712	191.594	100.506	-80.908	1.00	73.56	A16S



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ATOM	14855	O2P	A	A	712	192.493	102.399	-79.420	1.00	73.56	A16S
ATOM	14856	O5*	A	A	712	192.912	99.991	-78.860	1.00	59.55	A16S
ATOM	14857	C5*	A	A	712	193.229	98.635	-79.188	1.00	59.55	A16S
ATOM	14858	C4*	A	A	712	193.513	97.848	-77.942	1.00	59.55	A16S
ATOM	14859	O4*	A	A	712	194.735	98.329	-77.331	1.00	59.55	A16S
ATOM	14860	C1*	A	A	712	194.617	98.270	-75.921	1.00	59.55	A16S
ATOM	14861	N9	A	A	712	194.740	99.628	-75.402	1.00	73.56	A16S
ATOM	14862	C4	A	A	712	195.069	99.983	-74.118	1.00	73.56	A16S
ATOM	14863	N3	A	A	712	195.338	99.163	-73.090	1.00	73.56	A16S
ATOM	14864	C2	A	A	712	195.643	99.868	-71.999	1.00	73.56	A16S
ATOM	14865	N1	A	A	712	195.705	101.198	-71.835	1.00	73.56	A16S
ATOM	14866	C6	A	A	712	195.422	101.989	-72.890	1.00	73.56	A16S
ATOM	14867	N6	A	A	712	195.474	103.312	-72.728	1.00	73.56	A16S
ATOM	14868	C5	A	A	712	195.086	101.365	-74.102	1.00	73.56	A16S
ATOM	14869	N7	A	A	712	194.757	101.872	-75.350	1.00	73.56	A16S
ATOM	14870	C8	A	A	712	194.559	100.805	-76.081	1.00	73.56	A16S
ATOM	14871	C2*	A	A	712	193.257	97.659	-75.595	1.00	59.55	A16S
ATOM	14872	O2*	A	A	712	193.408	96.273	-75.391	1.00	59.55	A16S
ATOM	14873	C3*	A	A	712	192.470	97.980	-76.854	1.00	59.55	A16S
ATOM	14874	O3*	A	A	712	191.369	97.118	-77.047	1.00	59.55	A16S
ATOM	14875	P	G	A	713	189.922	97.591	-76.537	1.00	77.51	A16S
ATOM	14876	O1P	G	A	713	188.891	96.601	-76.985	1.00	63.46	A16S
ATOM	14877	O2P	G	A	713	189.777	99.032	-76.911	1.00	63.46	A16S
ATOM	14878	O5*	G	A	713	190.035	97.498	-74.948	1.00	77.51	A16S
ATOM	14879	C5*	G	A	713	190.231	96.227	-74.308	1.00	77.51	A16S
ATOM	14880	C4*	G	A	713	190.495	96.410	-72.838	1.00	77.51	A16S
ATOM	14881	O4*	G	A	713	191.681	97.215	-72.655	1.00	77.51	A16S
ATOM	14882	C1*	G	A	713	191.574	97.961	-71.454	1.00	77.51	A16S
ATOM	14883	N9	G	A	713	191.724	99.378	-71.766	1.00	63.46	A16S
ATOM	14884	C4	G	A	713	192.323	100.339	-70.974	1.00	63.46	A16S
ATOM	14885	N3	G	A	713	192.889	100.141	-69.761	1.00	63.46	A16S
ATOM	14886	C2	G	A	713	193.409	101.262	-69.268	1.00	63.46	A16S
ATOM	14887	N2	G	A	713	194.035	101.250	-68.076	1.00	63.46	A16S
ATOM	14888	N1	G	A	713	193.361	102.474	-69.907	1.00	63.46	A16S
ATOM	14889	C6	G	A	713	192.779	102.699	-71.147	1.00	63.46	A16S
ATOM	14890	O6	G	A	713	192.792	103.829	-71.635	1.00	63.46	A16S
ATOM	14891	C5	G	A	713	192.229	101.511	-71.693	1.00	63.46	A16S
ATOM	14892	N7	G	A	713	191.580	101.297	-72.902	1.00	63.46	A16S
ATOM	14893	C8	G	A	713	191.301	100.021	-72.902	1.00	63.46	A16S
ATOM	14894	C2*	G	A	713	190.224	97.631	-70.833	1.00	77.51	A16S
ATOM	14895	O2*	G	A	713	190.421	96.587	-69.907	1.00	77.51	A16S
ATOM	14896	C3*	G	A	713	189.445	97.151	-72.045	1.00	77.51	A16S
ATOM	14897	O3*	G	A	713	188.382	96.310	-71.670	1.00	77.51	A16S
ATOM	14898	P	G	A	714	186.935	96.953	-71.416	1.00	62.63	A16S
ATOM	14899	O1P	G	A	714	185.926	95.893	-71.677	1.00	52.56	A16S
ATOM	14900	O2P	G	A	714	186.864	98.241	-72.158	1.00	52.56	A16S
ATOM	14901	O5*	G	A	714	186.940	97.319	-69.866	1.00	62.63	A16S
ATOM	14902	C5*	G	A	714	187.054	96.292	-68.874	1.00	62.63	A16S
ATOM	14903	C4*	G	A	714	187.511	96.883	-67.572	1.00	62.63	A16S
ATOM	14904	O4*	G	A	714	188.752	97.591	-67.784	1.00	62.63	A16S
ATOM	14905	C1*	G	A	714	188.807	98.721	-66.943	1.00	62.63	A16S
ATOM	14906	N9	G	A	714	188.918	99.902	-67.789	1.00	52.56	A16S
ATOM	14907	C4	G	A	714	189.730	100.996	-67.567	1.00	52.56	A16S
ATOM	14908	N3	G	A	714	190.560	101.173	-66.516	1.00	52.56	A16S
ATOM	14909	C2	G	A	714	191.221	102.311	-66.599	1.00	52.56	A16S
ATOM	14910	N2	G	A	714	192.082	102.653	-65.642	1.00	52.56	A16S
ATOM	14911	N1	G	A	714	191.085	103.198	-67.626	1.00	52.56	A16S
ATOM	14912	C6	G	A	714	190.240	103.036	-68.715	1.00	52.56	A16S
ATOM	14913	O6	G	A	714	190.201	103.899	-69.594	1.00	52.56	A16S
ATOM	14914	C5	G	A	714	189.517	101.829	-68.640	1.00	52.56	A16S
ATOM	14915	N7	G	A	714	188.581	101.286	-69.510	1.00	52.56	A16S
ATOM	14916	C8	G	A	714	188.252	100.145	-68.966	1.00	52.56	A16S
ATOM	14917	C2*	G	A	714	187.545	98.717	-66.090	1.00	62.63	A16S
ATOM	14918	O2*	G	A	714	187.839	98.034	-64.890	1.00	62.63	A16S
ATOM	14919	C3*	G	A	714	186.592	97.916	-66.958	1.00	62.63	A16S
ATOM	14920	O3*	G	A	714	185.617	97.271	-66.174	1.00	62.63	A16S
ATOM	14921	P	A	A	715	184.230	98.009	-65.867	1.00	60.44	A16S
ATOM	14922	O1P	A	A	715	183.500	96.964	-65.117	1.00	54.60	A16S
ATOM	14923	O2P	A	A	715	183.640	98.583	-67.111	1.00	54.60	A16S
ATOM	14924	O5*	A	A	715	184.617	99.215	-64.894	1.00	60.44	A16S
ATOM	14925	C5*	A	A	715	184.967	98.967	-63.524	1.00	60.44	A16S
ATOM	14926	C4*	A	A	715	185.747	100.127	-62.950	1.00	60.44	A16S
ATOM	14927	O4*	A	A	715	186.859	100.450	-63.824	1.00	60.44	A16S
ATOM	14928	C1*	A	A	715	187.133	101.842	-63.762	1.00	60.44	A16S
ATOM	14929	N9	A	A	715	186.948	102.419	-65.090	1.00	54.60	A16S
ATOM	14930	C4	A	A	715	187.563	103.557	-65.552	1.00	54.60	A16S
ATOM	14931	N3	A	A	715	188.432	104.339	-64.890	1.00	54.60	A16S



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ATOM	14932	C2	A	A	715	188.813	105.362	-65.650	1.00	54.60	A16S
ATOM	14933	N1	A	A	715	188.457	105.668	-66.905	1.00	54.60	A16S
ATOM	14934	C6	A	A	715	187.589	104.854	-67.543	1.00	54.60	A16S
ATOM	14935	N6	A	A	715	187.250	105.142	-68.798	1.00	54.60	A16S
ATOM	14936	C5	A	A	715	187.099	103.740	-66.840	1.00	54.60	A16S
ATOM	14937	N7	A	A	715	186.197	102.741	-67.183	1.00	54.60	A16S
ATOM	14938	C8	A	A	715	186.144	101.983	-66.113	1.00	54.60	A16S
ATOM	14939	C2*	A	A	715	186.145	102.467	-62.787	1.00	60.44	A16S
ATOM	14940	O2*	A	A	715	186.779	102.626	-61.535	1.00	60.44	A16S
ATOM	14941	C3*	A	A	715	185.014	101.447	-62.819	1.00	60.44	A16S
ATOM	14942	O3*	A	A	715	184.198	101.497	-61.677	1.00	60.44	A16S
ATOM	14943	P	A	A	716	182.800	102.265	-61.762	1.00	56.95	A16S
ATOM	14944	O1P	A	A	716	182.039	101.805	-60.571	1.00	57.27	A16S
ATOM	14945	O2P	A	A	716	182.205	102.131	-63.119	1.00	57.27	A16S
ATOM	14946	O5*	A	A	716	183.209	103.791	-61.590	1.00	56.95	A16S
ATOM	14947	C5*	A	A	716	183.600	104.283	-60.306	1.00	56.95	A16S
ATOM	14948	C4*	A	A	716	184.220	105.639	-60.433	1.00	56.95	A16S
ATOM	14949	O4*	A	A	716	185.340	105.552	-61.348	1.00	56.95	A16S
ATOM	14950	C1*	A	A	716	185.456	106.765	-62.072	1.00	56.95	A16S
ATOM	14951	N9	A	A	716	185.274	106.483	-63.495	1.00	57.27	A16S
ATOM	14952	C4	A	A	716	185.662	107.291	-64.538	1.00	57.27	A16S
ATOM	14953	N3	A	A	716	186.320	108.460	-64.467	1.00	57.27	A16S
ATOM	14954	C2	A	A	716	186.493	108.982	-65.683	1.00	57.27	A16S
ATOM	14955	N1	A	A	716	186.113	108.507	-66.867	1.00	57.27	A16S
ATOM	14956	C6	A	A	716	185.453	107.329	-66.903	1.00	57.27	A16S
ATOM	14957	N6	A	A	716	185.058	106.855	-68.087	1.00	57.27	A16S
ATOM	14958	C5	A	A	716	185.212	106.670	-65.682	1.00	57.27	A16S
ATOM	14959	N7	A	A	716	184.579	105.474	-65.374	1.00	57.27	A16S
ATOM	14960	C8	A	A	716	184.652	105.405	-64.068	1.00	57.27	A16S
ATOM	14961	C2*	A	A	716	184.365	107.709	-61.559	1.00	56.95	A16S
ATOM	14962	O2*	A	A	716	184.905	108.526	-60.538	1.00	56.95	A16S
ATOM	14963	C3*	A	A	716	183.337	106.729	-61.011	1.00	56.95	A16S
ATOM	14964	O3*	A	A	716	182.513	107.327	-60.018	1.00	56.95	A16S
ATOM	14965	P	C	A	717	181.215	108.182	-60.457	1.00	55.21	A16S
ATOM	14966	O1P	C	A	717	180.625	108.674	-59.183	1.00	53.90	A16S
ATOM	14967	O2P	C	A	717	180.366	107.401	-61.405	1.00	53.90	A16S
ATOM	14968	O5*	C	A	717	181.795	109.437	-61.252	1.00	55.21	A16S
ATOM	14969	C5*	C	A	717	182.642	110.382	-60.585	1.00	55.21	A16S
ATOM	14970	C4*	C	A	717	183.266	111.353	-61.568	1.00	55.21	A16S
ATOM	14971	O4*	C	A	717	183.765	110.636	-62.723	1.00	55.21	A16S
ATOM	14972	C1*	C	A	717	183.327	111.265	-63.901	1.00	55.21	A16S
ATOM	14973	N1	C	A	717	182.979	110.215	-64.865	1.00	53.90	A16S
ATOM	14974	C6	C	A	717	182.239	109.128	-64.485	1.00	53.90	A16S
ATOM	14975	C2	C	A	717	183.410	110.347	-66.178	1.00	53.90	A16S
ATOM	14976	O2	C	A	717	184.092	111.331	-66.483	1.00	53.90	A16S
ATOM	14977	N3	C	A	717	183.079	109.396	-67.082	1.00	53.90	A16S
ATOM	14978	C4	C	A	717	182.360	108.337	-66.701	1.00	53.90	A16S
ATOM	14979	N4	C	A	717	182.069	107.413	-67.615	1.00	53.90	A16S
ATOM	14980	C5	C	A	717	181.912	108.175	-65.361	1.00	53.90	A16S
ATOM	14981	C2*	C	A	717	182.119	112.123	-63.529	1.00	55.21	A16S
ATOM	14982	O2*	C	A	717	182.082	113.269	-64.359	1.00	55.21	A16S
ATOM	14983	C3*	C	A	717	182.427	112.513	-62.093	1.00	55.21	A16S
ATOM	14984	O3*	C	A	717	183.249	113.654	-62.156	1.00	55.21	A16S
ATOM	14985	P	G	A	718	183.044	114.851	-61.107	1.00	63.32	A16S
ATOM	14986	O1P	G	A	718	182.456	114.334	-59.837	1.00	66.69	A16S
ATOM	14987	O2P	G	A	718	182.367	115.968	-61.828	1.00	66.69	A16S
ATOM	14988	O5*	G	A	718	184.542	115.244	-60.772	1.00	63.32	A16S
ATOM	14989	C5*	G	A	718	184.847	116.510	-60.262	1.00	63.32	A16S
ATOM	14990	C4*	G	A	718	186.275	116.856	-60.564	1.00	63.32	A16S
ATOM	14991	O4*	G	A	718	186.707	116.289	-61.823	1.00	63.32	A16S
ATOM	14992	C1*	G	A	718	187.509	117.229	-62.515	1.00	63.32	A16S
ATOM	14993	N9	G	A	718	186.903	117.462	-63.821	1.00	66.69	A16S
ATOM	14994	C4	G	A	718	187.275	118.405	-64.743	1.00	66.69	A16S
ATOM	14995	N3	G	A	718	188.281	119.288	-64.607	1.00	66.69	A16S
ATOM	14996	C2	G	A	718	188.405	120.057	-65.670	1.00	66.69	A16S
ATOM	14997	N2	G	A	718	189.384	120.979	-65.719	1.00	66.69	A16S
ATOM	14998	N1	G	A	718	187.586	119.974	-66.768	1.00	66.69	A16S
ATOM	14999	C6	G	A	718	186.541	119.069	-66.920	1.00	66.69	A16S
ATOM	15000	O6	G	A	718	185.859	119.073	-67.952	1.00	66.69	A16S
ATOM	15001	C5	G	A	718	186.416	118.236	-65.804	1.00	66.69	A16S
ATOM	15002	N7	G	A	718	185.528	117.201	-65.562	1.00	66.69	A16S
ATOM	15003	C8	G	A	718	185.851	116.774	-64.375	1.00	66.69	A16S
ATOM	15004	C2*	G	A	718	187.640	118.484	-61.642	1.00	63.32	A16S
ATOM	15005	O2*	G	A	718	188.868	118.463	-60.947	1.00	63.32	A16S
ATOM	15006	C3*	G	A	718	186.437	118.348	-60.716	1.00	63.32	A16S
ATOM	15007	O3*	G	A	718	186.596	118.891	-59.419	1.00	63.32	A16S
ATOM	15008	P	C	A	719	185.358	119.639	-58.734	1.00	62.27	A16S



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ATOM	15009	O1P	C	A	719	185.799	120.039	-57.373	1.00	58.85	A16S
ATOM	15010	O2P	C	A	719	184.139	118.813	-58.888	1.00	58.85	A16S
ATOM	15011	O5*	C	A	719	185.213	120.948	-59.625	1.00	62.27	A16S
ATOM	15012	C5*	C	A	719	186.228	121.956	-59.582	1.00	62.27	A16S
ATOM	15013	C4*	C	A	719	186.116	122.855	-60.774	1.00	62.27	A16S
ATOM	15014	O4*	C	A	719	186.269	122.062	-61.965	1.00	62.27	A16S
ATOM	15015	C1*	C	A	719	185.603	122.702	-63.032	1.00	62.27	A16S
ATOM	15016	N1	C	A	719	184.856	121.703	-63.809	1.00	58.85	A16S
ATOM	15017	C6	C	A	719	184.452	120.526	-63.246	1.00	58.85	A16S
ATOM	15018	C2	C	A	719	184.572	121.982	-65.147	1.00	58.85	A16S
ATOM	15019	O2	C	A	719	184.950	123.059	-65.632	1.00	58.85	A16S
ATOM	15020	N3	C	A	719	183.900	121.079	-65.880	1.00	58.85	A16S
ATOM	15021	C4	C	A	719	183.511	119.932	-65.327	1.00	58.85	A16S
ATOM	15022	N4	C	A	719	182.846	119.061	-66.100	1.00	58.85	A16S
ATOM	15023	C5	C	A	719	183.784	119.621	-63.961	1.00	58.85	A16S
ATOM	15024	C2*	C	A	719	184.768	123.852	-62.464	1.00	62.27	A16S
ATOM	15025	O2*	C	A	719	185.414	125.071	-62.772	1.00	62.27	A16S
ATOM	15026	C3*	C	A	719	184.780	123.548	-60.970	1.00	62.27	A16S
ATOM	15027	O3*	C	A	719	184.744	124.748	-60.223	1.00	62.27	A16S
ATOM	15028	P	C	A	720	183.816	124.842	-58.924	1.00	56.74	A16S
ATOM	15029	O1P	C	A	720	184.243	126.044	-58.165	1.00	53.75	A16S
ATOM	15030	O2P	C	A	720	183.822	123.516	-58.267	1.00	53.75	A16S
ATOM	15031	O5*	C	A	720	182.349	125.059	-59.496	1.00	56.74	A16S
ATOM	15032	C5*	C	A	720	182.052	126.133	-60.395	1.00	56.74	A16S
ATOM	15033	C4*	C	A	720	180.951	125.711	-61.333	1.00	56.74	A16S
ATOM	15034	O4*	C	A	720	181.427	124.642	-62.192	1.00	56.74	A16S
ATOM	15035	C1*	C	A	720	180.375	123.735	-62.444	1.00	56.74	A16S
ATOM	15036	N1	C	A	720	180.792	122.404	-61.988	1.00	53.75	A16S
ATOM	15037	C6	C	A	720	181.856	122.248	-61.141	1.00	53.75	A16S
ATOM	15038	C2	C	A	720	180.076	121.287	-62.436	1.00	53.75	A16S
ATOM	15039	O2	C	A	720	179.120	121.453	-63.198	1.00	53.75	A16S
ATOM	15040	N3	C	A	720	180.444	120.057	-62.028	1.00	53.75	A16S
ATOM	15041	C4	C	A	720	181.483	119.911	-61.203	1.00	53.75	A16S
ATOM	15042	N4	C	A	720	181.804	118.669	-60.828	1.00	53.75	A16S
ATOM	15043	C5	C	A	720	182.237	121.031	-60.728	1.00	53.75	A16S
ATOM	15044	C2*	C	A	720	179.122	124.242	-61.726	1.00	56.74	A16S
ATOM	15045	O2*	C	A	720	178.304	124.935	-62.647	1.00	56.74	A16S
ATOM	15046	C3*	C	A	720	179.715	125.146	-60.650	1.00	56.74	A16S
ATOM	15047	O3*	C	A	720	178.826	126.206	-60.338	1.00	56.74	A16S
ATOM	15048	P	G	A	721	178.258	126.393	-58.836	1.00	67.41	A16S
ATOM	15049	O1P	G	A	721	176.790	126.078	-58.860	1.00	67.54	A16S
ATOM	15050	O2P	G	A	721	178.727	127.743	-58.393	1.00	67.54	A16S
ATOM	15051	O5*	G	A	721	178.952	125.292	-57.915	1.00	67.41	A16S
ATOM	15052	C5*	G	A	721	178.630	125.244	-56.513	1.00	67.41	A16S
ATOM	15053	C4*	G	A	721	179.167	123.988	-55.874	1.00	67.41	A16S
ATOM	15054	O4*	G	A	721	178.490	122.829	-56.421	1.00	67.41	A16S
ATOM	15055	C1*	G	A	721	179.440	121.906	-56.913	1.00	67.41	A16S
ATOM	15056	N9	G	A	721	178.912	121.359	-58.157	1.00	67.54	A16S
ATOM	15057	C4	G	A	721	178.926	120.043	-58.570	1.00	67.54	A16S
ATOM	15058	N3	G	A	721	179.443	118.995	-57.892	1.00	67.54	A16S
ATOM	15059	C2	G	A	721	179.298	117.857	-58.561	1.00	67.54	A16S
ATOM	15060	N2	G	A	721	179.756	116.710	-58.042	1.00	67.54	A16S
ATOM	15061	N1	G	A	721	178.691	117.758	-59.792	1.00	67.54	A16S
ATOM	15062	C6	G	A	721	178.144	118.823	-60.498	1.00	67.54	A16S
ATOM	15063	O6	G	A	721	177.593	118.627	-61.588	1.00	67.54	A16S
ATOM	15064	C5	G	A	721	178.302	120.044	-59.803	1.00	67.54	A16S
ATOM	15065	N7	G	A	721	177.914	121.328	-60.157	1.00	67.54	A16S
ATOM	15066	C8	G	A	721	178.292	122.071	-59.155	1.00	67.54	A16S
ATOM	15067	C2*	G	A	721	180.742	122.684	-57.117	1.00	67.41	A16S
ATOM	15068	O2*	G	A	721	181.864	121.832	-56.971	1.00	67.41	A16S
ATOM	15069	C3*	G	A	721	180.661	123.744	-56.018	1.00	67.41	A16S
ATOM	15070	O3*	G	A	721	181.154	123.205	-54.803	1.00	67.41	A16S
ATOM	15071	P	A	A	722	182.024	124.121	-53.818	1.00	86.54	A16S
ATOM	15072	O1P	A	A	722	182.662	125.204	-54.589	1.00	50.41	A16S
ATOM	15073	O2P	A	A	722	182.861	123.216	-52.990	1.00	50.41	A16S
ATOM	15074	O5*	A	A	722	180.941	124.804	-52.881	1.00	86.54	A16S
ATOM	15075	C5*	A	A	722	180.220	124.022	-51.925	1.00	86.54	A16S
ATOM	15076	C4*	A	A	722	178.867	124.624	-51.680	1.00	86.54	A16S
ATOM	15077	O4*	A	A	722	178.181	124.804	-52.934	1.00	86.54	A16S
ATOM	15078	C1*	A	A	722	176.794	124.697	-52.721	1.00	86.54	A16S
ATOM	15079	N9	A	A	722	176.201	123.943	-53.820	1.00	50.41	A16S
ATOM	15080	C4	A	A	722	176.430	122.644	-54.184	1.00	50.41	A16S
ATOM	15081	N3	A	A	722	177.217	121.759	-53.567	1.00	50.41	A16S
ATOM	15082	C2	A	A	722	177.204	120.604	-54.223	1.00	50.41	A16S
ATOM	15083	N1	A	A	722	176.547	120.269	-55.343	1.00	50.41	A16S
ATOM	15084	C6	A	A	722	175.764	121.196	-55.929	1.00	50.41	A16S
ATOM	15085	N6	A	A	722	175.107	120.882	-57.043	1.00	50.41	A16S



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ATOM	15086	C5	A	A	722	175.688	122.441	-55.334	1.00	50.41	A16S
ATOM	15087	N7	A	A	722	174.979	123.577	-55.672	1.00	50.41	A16S
ATOM	15088	C8	A	A	722	175.309	124.436	-54.741	1.00	50.41	A16S
ATOM	15089	C2*	A	A	722	176.547	124.209	-51.294	1.00	86.54	A16S
ATOM	15090	O2*	A	A	722	176.061	125.327	-50.586	1.00	86.54	A16S
ATOM	15091	C3*	A	A	722	177.942	123.762	-50.848	1.00	86.54	A16S
ATOM	15092	O3*	A	A	722	178.177	124.091	-49.488	1.00	86.54	A16S
ATOM	15093	P	U	A	723	178.814	123.011	-48.498	1.00	125.70	A16S
ATOM	15094	O1P	U	A	723	180.124	123.567	-48.094	1.00	188.04	A16S
ATOM	15095	O2P	U	A	723	178.745	121.667	-49.127	1.00	188.04	A16S
ATOM	15096	O5*	U	A	723	177.837	123.043	-47.235	1.00	125.70	A16S
ATOM	15097	C5*	U	A	723	176.398	122.989	-47.411	1.00	125.70	A16S
ATOM	15098	C4*	U	A	723	175.731	124.173	-46.739	1.00	125.70	A16S
ATOM	15099	O4*	U	A	723	176.664	125.285	-46.681	1.00	125.70	A16S
ATOM	15100	C1*	U	A	723	176.001	126.497	-47.014	1.00	125.70	A16S
ATOM	15101	N1	U	A	723	176.635	127.025	-48.245	1.00	188.04	A16S
ATOM	15102	C6	U	A	723	177.982	126.800	-48.480	1.00	188.04	A16S
ATOM	15103	C2	U	A	723	175.864	127.741	-49.179	1.00	188.04	A16S
ATOM	15104	O2	U	A	723	174.677	128.003	-49.027	1.00	188.04	A16S
ATOM	15105	N3	U	A	723	176.548	128.141	-50.305	1.00	188.04	A16S
ATOM	15106	C4	U	A	723	177.881	127.923	-50.599	1.00	188.04	A16S
ATOM	15107	O4	U	A	723	178.329	128.295	-51.686	1.00	188.04	A16S
ATOM	15108	C5	U	A	723	178.607	127.211	-49.590	1.00	188.04	A16S
ATOM	15109	C2*	U	A	723	174.501	126.179	-47.097	1.00	125.70	A16S
ATOM	15110	O2*	U	A	723	173.890	126.408	-45.840	1.00	125.70	A16S
ATOM	15111	C3*	U	A	723	174.517	124.707	-47.489	1.00	125.70	A16S
ATOM	15112	O3*	U	A	723	173.305	124.047	-47.138	1.00	125.70	A16S
ATOM	15113	P	G	A	724	172.688	122.925	-48.117	1.00	71.96	A16S
ATOM	15114	O1P	G	A	724	171.238	122.817	-47.825	1.00	67.48	A16S
ATOM	15115	O2P	G	A	724	173.557	121.705	-47.982	1.00	67.48	A16S
ATOM	15116	O5*	G	A	724	172.832	123.527	-49.590	1.00	71.96	A16S
ATOM	15117	C5*	G	A	724	172.081	124.682	-50.006	1.00	71.96	A16S
ATOM	15118	C4*	G	A	724	171.657	124.547	-51.458	1.00	71.96	A16S
ATOM	15119	O4*	G	A	724	172.827	124.255	-52.269	1.00	71.96	A16S
ATOM	15120	C1*	G	A	724	172.472	123.392	-53.344	1.00	71.96	A16S
ATOM	15121	N9	G	A	724	173.160	122.109	-53.175	1.00	67.48	A16S
ATOM	15122	C4	G	A	724	173.054	121.012	-54.007	1.00	67.48	A16S
ATOM	15123	N3	G	A	724	172.330	120.942	-55.148	1.00	67.48	A16S
ATOM	15124	C2	G	A	724	172.410	119.747	-55.712	1.00	67.48	A16S
ATOM	15125	N2	G	A	724	171.760	119.497	-56.860	1.00	67.48	A16S
ATOM	15126	N1	G	A	724	173.135	118.708	-55.195	1.00	67.48	A16S
ATOM	15127	C6	G	A	724	173.888	118.761	-54.029	1.00	67.48	A16S
ATOM	15128	O6	G	A	724	174.508	117.768	-53.658	1.00	67.48	A16S
ATOM	15129	C5	G	A	724	173.817	120.032	-53.416	1.00	67.48	A16S
ATOM	15130	N7	G	A	724	174.414	120.501	-52.255	1.00	67.48	A16S
ATOM	15131	C8	G	A	724	174.004	121.736	-52.154	1.00	67.48	A16S
ATOM	15132	C2*	G	A	724	170.962	123.186	-53.279	1.00	71.96	A16S
ATOM	15133	O2*	G	A	724	170.305	124.103	-54.131	1.00	71.96	A16S
ATOM	15134	C3*	G	A	724	170.696	123.414	-51.798	1.00	71.96	A16S
ATOM	15135	O3*	G	A	724	169.327	123.703	-51.544	1.00	71.96	A16S
ATOM	15136	P	G	A	725	168.343	122.513	-51.077	1.00	56.02	A16S
ATOM	15137	O1P	G	A	725	167.114	123.181	-50.587	1.00	55.38	A16S
ATOM	15138	O2P	G	A	725	169.090	121.594	-50.163	1.00	55.38	A16S
ATOM	15139	O5*	G	A	725	168.022	121.714	-52.425	1.00	56.02	A16S
ATOM	15140	C5*	G	A	725	167.653	122.411	-53.639	1.00	56.02	A16S
ATOM	15141	C4*	G	A	725	167.566	121.445	-54.806	1.00	56.02	A16S
ATOM	15142	O4*	G	A	725	168.884	120.903	-55.112	1.00	56.02	A16S
ATOM	15143	C1*	G	A	725	168.761	119.551	-55.545	1.00	56.02	A16S
ATOM	15144	N9	G	A	725	169.504	118.693	-54.622	1.00	55.38	A16S
ATOM	15145	C4	G	A	725	169.738	117.340	-54.756	1.00	55.38	A16S
ATOM	15146	N3	G	A	725	169.332	116.559	-55.775	1.00	55.38	A16S
ATOM	15147	C2	G	A	725	169.688	115.294	-55.604	1.00	55.38	A16S
ATOM	15148	N2	G	A	725	169.343	114.372	-56.509	1.00	55.38	A16S
ATOM	15149	N1	G	A	725	170.397	114.839	-54.535	1.00	55.38	A16S
ATOM	15150	C6	G	A	725	170.833	115.624	-53.479	1.00	55.38	A16S
ATOM	15151	O6	G	A	725	171.475	115.108	-52.558	1.00	55.38	A16S
ATOM	15152	C5	G	A	725	170.447	116.980	-53.638	1.00	55.38	A16S
ATOM	15153	N7	G	A	725	170.667	118.076	-52.820	1.00	55.38	A16S
ATOM	15154	C8	G	A	725	170.095	119.067	-53.443	1.00	55.38	A16S
ATOM	15155	C2*	G	A	725	167.271	119.203	-55.574	1.00	56.02	A16S
ATOM	15156	O2*	G	A	725	166.743	119.344	-56.877	1.00	56.02	A16S
ATOM	15157	C3*	G	A	725	166.701	120.213	-54.584	1.00	56.02	A16S
ATOM	15158	O3*	G	A	725	165.311	120.437	-54.776	1.00	56.02	A16S
ATOM	15159	P	C	A	726	164.249	119.560	-53.933	1.00	46.74	A16S
ATOM	15160	O1P	C	A	726	162.873	120.070	-54.216	1.00	67.55	A16S
ATOM	15161	O2P	C	A	726	164.737	119.477	-52.513	1.00	67.55	A16S
ATOM	15162	O5*	C	A	726	164.343	118.118	-54.597	1.00	46.74	A16S



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ATOM	15163	C5*	C	A	726	164.021	117.947	-55.973	1.00	46.74	A16S
ATOM	15164	C4*	C	A	726	164.214	116.520	-56.376	1.00	46.74	A16S
ATOM	15165	O4*	C	A	726	165.624	116.183	-56.367	1.00	46.74	A16S
ATOM	15166	C1*	C	A	726	165.785	114.811	-56.045	1.00	46.74	A16S
ATOM	15167	N1	C	A	726	166.594	114.689	-54.815	1.00	67.55	A16S
ATOM	15168	C6	C	A	726	166.973	115.791	-54.102	1.00	67.55	A16S
ATOM	15169	C2	C	A	726	166.955	113.402	-54.369	1.00	67.55	A16S
ATOM	15170	O2	C	A	726	166.612	112.414	-55.035	1.00	67.55	A16S
ATOM	15171	N3	C	A	726	167.661	113.275	-53.222	1.00	67.55	A16S
ATOM	15172	C4	C	A	726	167.998	114.359	-52.527	1.00	67.55	A16S
ATOM	15173	N4	C	A	726	168.654	114.185	-51.393	1.00	67.55	A16S
ATOM	15174	C5	C	A	726	167.666	115.671	-52.963	1.00	67.55	A16S
ATOM	15175	C2*	C	A	726	164.387	114.241	-55.830	1.00	46.74	A16S
ATOM	15176	O2*	C	A	726	163.952	113.686	-57.049	1.00	46.74	A16S
ATOM	15177	C3*	C	A	726	163.607	115.490	-55.456	1.00	46.74	A16S
ATOM	15178	O3*	C	A	726	162.213	115.356	-55.617	1.00	46.74	A16S
ATOM	15179	P	G	A	727	161.322	114.968	-54.341	1.00	53.80	A16S
ATOM	15180	O1P	G	A	727	159.890	114.996	-54.730	1.00	47.02	A16S
ATOM	15181	O2P	G	A	727	161.798	115.791	-53.191	1.00	47.02	A16S
ATOM	15182	O5*	G	A	727	161.714	113.455	-54.055	1.00	53.80	A16S
ATOM	15183	C5*	G	A	727	161.487	112.450	-55.046	1.00	53.80	A16S
ATOM	15184	C4*	G	A	727	161.983	111.108	-54.565	1.00	53.80	A16S
ATOM	15185	O4*	G	A	727	163.431	111.124	-54.429	1.00	53.80	A16S
ATOM	15186	C1*	G	A	727	163.820	110.218	-53.410	1.00	53.80	A16S
ATOM	15187	N9	G	A	727	164.537	110.946	-52.367	1.00	47.02	A16S
ATOM	15188	C4	G	A	727	165.461	110.423	-51.493	1.00	47.02	A16S
ATOM	15189	N3	G	A	727	165.927	109.161	-51.495	1.00	47.02	A16S
ATOM	15190	C2	G	A	727	166.792	108.952	-50.517	1.00	47.02	A16S
ATOM	15191	N2	G	A	727	167.375	107.745	-50.380	1.00	47.02	A16S
ATOM	15192	N1	G	A	727	167.159	109.904	-49.604	1.00	47.02	A16S
ATOM	15193	C6	G	A	727	166.697	111.209	-49.585	1.00	47.02	A16S
ATOM	15194	O6	G	A	727	167.106	111.992	-48.715	1.00	47.02	A16S
ATOM	15195	C5	G	A	727	165.775	111.449	-50.636	1.00	47.02	A16S
ATOM	15196	N7	G	A	727	165.097	112.604	-50.985	1.00	47.02	A16S
ATOM	15197	C8	G	A	727	164.386	112.261	-52.025	1.00	47.02	A16S
ATOM	15198	C2*	G	A	727	162.544	109.592	-52.844	1.00	53.80	A16S
ATOM	15199	O2*	G	A	727	162.316	108.361	-53.493	1.00	53.80	A16S
ATOM	15200	C3*	G	A	727	161.502	110.643	-53.202	1.00	53.80	A16S
ATOM	15201	O3*	G	A	727	160.170	110.141	-53.211	1.00	53.80	A16S
ATOM	15202	P	A	A	728	159.135	110.622	-52.063	1.00	42.61	A16S
ATOM	15203	O1P	A	A	728	157.841	109.917	-52.296	1.00	59.23	A16S
ATOM	15204	O2P	A	A	728	159.151	112.117	-51.962	1.00	59.23	A16S
ATOM	15205	O5*	A	A	728	159.730	110.002	-50.727	1.00	42.61	A16S
ATOM	15206	C5*	A	A	728	158.934	109.966	-49.534	1.00	42.61	A16S
ATOM	15207	C4*	A	A	728	159.384	108.843	-48.636	1.00	42.61	A16S
ATOM	15208	O4*	A	A	728	158.809	107.591	-49.049	1.00	42.61	A16S
ATOM	15209	C1*	A	A	728	159.743	106.557	-48.854	1.00	42.61	A16S
ATOM	15210	N9	A	A	728	160.036	105.995	-50.163	1.00	59.23	A16S
ATOM	15211	C4	A	A	728	160.433	104.713	-50.431	1.00	59.23	A16S
ATOM	15212	N3	A	A	728	160.649	103.731	-49.551	1.00	59.23	A16S
ATOM	15213	C2	A	A	728	161.005	102.623	-50.170	1.00	59.23	A16S
ATOM	15214	N1	A	A	728	161.166	102.404	-51.466	1.00	59.23	A16S
ATOM	15215	C6	A	A	728	160.954	103.421	-52.320	1.00	59.23	A16S
ATOM	15216	N6	A	A	728	161.136	103.213	-53.619	1.00	59.23	A16S
ATOM	15217	C5	A	A	728	160.562	104.638	-51.794	1.00	59.23	A16S
ATOM	15218	N7	A	A	728	160.263	105.854	-52.387	1.00	59.23	A16S
ATOM	15219	C8	A	A	728	159.962	106.627	-51.377	1.00	59.23	A16S
ATOM	15220	C2*	A	A	728	160.979	107.158	-48.199	1.00	42.61	A16S
ATOM	15221	O2*	A	A	728	160.847	107.047	-46.809	1.00	42.61	A16S
ATOM	15222	C3*	A	A	728	160.873	108.602	-48.633	1.00	42.61	A16S
ATOM	15223	O3*	A	A	728	161.498	109.481	-47.740	1.00	42.61	A16S
ATOM	15224	P	A	A	729	162.977	109.987	-48.058	1.00	40.28	A16S
ATOM	15225	O1P	A	A	729	163.244	111.050	-47.052	1.00	51.27	A16S
ATOM	15226	O2P	A	A	729	163.073	110.326	-49.508	1.00	51.27	A16S
ATOM	15227	O5*	A	A	729	163.861	108.703	-47.703	1.00	40.28	A16S
ATOM	15228	C5*	A	A	729	164.008	108.334	-46.328	1.00	40.28	A16S
ATOM	15229	C4*	A	A	729	164.384	106.889	-46.167	1.00	40.28	A16S
ATOM	15230	O4*	A	A	729	163.436	106.025	-46.832	1.00	40.28	A16S
ATOM	15231	C1*	A	A	729	164.084	104.824	-47.192	1.00	40.28	A16S
ATOM	15232	N9	A	A	729	164.008	104.667	-48.637	1.00	51.27	A16S
ATOM	15233	C4	A	A	729	164.149	103.478	-49.300	1.00	51.27	A16S
ATOM	15234	N3	A	A	729	164.343	102.266	-48.756	1.00	51.27	A16S
ATOM	15235	C2	A	A	729	164.447	101.344	-49.695	1.00	51.27	A16S
ATOM	15236	N1	A	A	729	164.396	101.482	-51.020	1.00	51.27	A16S
ATOM	15237	C6	A	A	729	164.214	102.712	-51.537	1.00	51.27	A16S
ATOM	15238	N6	A	A	729	164.202	102.844	-52.862	1.00	51.27	A16S
ATOM	15239	C5	A	A	729	164.064	103.780	-50.639	1.00	51.27	A16S



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ATOM	15240	N7	A	A	729	163.844	105.139	-50.820	1.00	51.27	A16S
ATOM	15241	C8	A	A	729	163.820	105.617	-49.603	1.00	51.27	A16S
ATOM	15242	C2*	A	A	729	165.542	104.933	-46.752	1.00	40.28	A16S
ATOM	15243	O2*	A	A	729	165.667	104.360	-45.471	1.00	40.28	A16S
ATOM	15244	C3*	A	A	729	165.726	106.436	-46.689	1.00	40.28	A16S
ATOM	15245	O3*	A	A	729	166.759	106.768	-45.796	1.00	40.28	A16S
ATOM	15246	P	G	A	730	168.165	107.249	-46.385	1.00	48.68	A16S
ATOM	15247	O1P	G	A	730	169.016	107.700	-45.260	1.00	55.34	A16S
ATOM	15248	O2P	G	A	730	167.872	108.186	-47.496	1.00	55.34	A16S
ATOM	15249	O5*	G	A	730	168.787	105.896	-46.955	1.00	48.68	A16S
ATOM	15250	C5*	G	A	730	169.213	104.856	-46.044	1.00	48.68	A16S
ATOM	15251	C4*	G	A	730	169.490	103.548	-46.775	1.00	48.68	A16S
ATOM	15252	O4*	G	A	730	168.301	103.126	-47.479	1.00	48.68	A16S
ATOM	15253	C1*	G	A	730	168.666	102.466	-48.674	1.00	48.68	A16S
ATOM	15254	N9	G	A	730	168.246	103.288	-49.803	1.00	55.34	A16S
ATOM	15255	C4	G	A	730	168.359	102.939	-51.118	1.00	55.34	A16S
ATOM	15256	N3	G	A	730	168.845	101.771	-51.577	1.00	55.34	A16S
ATOM	15257	C2	G	A	730	168.845	101.722	-52.895	1.00	55.34	A16S
ATOM	15258	N2	G	A	730	169.285	100.604	-53.518	1.00	55.34	A16S
ATOM	15259	N1	G	A	730	168.411	102.754	-53.697	1.00	55.34	A16S
ATOM	15260	C6	G	A	730	167.903	103.960	-53.238	1.00	55.34	A16S
ATOM	15261	O6	G	A	730	167.540	104.817	-54.044	1.00	55.34	A16S
ATOM	15262	C5	G	A	730	167.888	104.015	-51.826	1.00	55.34	A16S
ATOM	15263	N7	G	A	730	167.468	105.020	-50.969	1.00	55.34	A16S
ATOM	15264	C8	G	A	730	167.694	104.544	-49.778	1.00	55.34	A16S
ATOM	15265	C2*	G	A	730	170.180	102.337	-48.671	1.00	48.68	A16S
ATOM	15266	O2*	G	A	730	170.492	101.156	-47.982	1.00	48.68	A16S
ATOM	15267	C3*	G	A	730	170.572	103.536	-47.841	1.00	48.68	A16S
ATOM	15268	O3*	G	A	730	171.853	103.351	-47.302	1.00	48.68	A16S
ATOM	15269	P	G	A	731	172.976	104.451	-47.591	1.00	49.64	A16S
ATOM	15270	O1P	G	A	731	174.282	103.742	-47.688	1.00	57.98	A16S
ATOM	15271	O2P	G	A	731	172.807	105.562	-46.615	1.00	57.98	A16S
ATOM	15272	O5*	G	A	731	172.603	105.027	-49.025	1.00	49.64	A16S
ATOM	15273	C5*	G	A	731	173.245	104.538	-50.205	1.00	49.64	A16S
ATOM	15274	C4*	G	A	731	172.338	104.729	-51.380	1.00	49.64	A16S
ATOM	15275	O4*	G	A	731	171.107	105.308	-50.888	1.00	49.64	A16S
ATOM	15276	C1*	G	A	731	170.580	106.203	-51.849	1.00	49.64	A16S
ATOM	15277	N9	G	A	731	170.512	107.529	-51.243	1.00	57.98	A16S
ATOM	15278	C4	G	A	731	169.925	108.652	-51.783	1.00	57.98	A16S
ATOM	15279	N3	G	A	731	169.304	108.729	-52.977	1.00	57.98	A16S
ATOM	15280	C2	G	A	731	168.841	109.943	-53.213	1.00	57.98	A16S
ATOM	15281	N2	G	A	731	168.208	110.199	-54.352	1.00	57.98	A16S
ATOM	15282	N1	G	A	731	168.966	110.997	-52.352	1.00	57.98	A16S
ATOM	15283	C6	G	A	731	169.591	110.942	-51.114	1.00	57.98	A16S
ATOM	15284	O6	G	A	731	169.636	111.949	-50.399	1.00	57.98	A16S
ATOM	15285	C5	G	A	731	170.105	109.645	-50.845	1.00	57.98	A16S
ATOM	15286	N7	G	A	731	170.793	109.160	-49.738	1.00	57.98	A16S
ATOM	15287	C8	G	A	731	171.015	107.904	-50.020	1.00	57.98	A16S
ATOM	15288	C2*	G	A	731	171.482	106.136	-53.078	1.00	49.64	A16S
ATOM	15289	O2*	G	A	731	170.956	105.160	-53.964	1.00	49.64	A16S
ATOM	15290	C3*	G	A	731	172.798	105.696	-52.455	1.00	49.64	A16S
ATOM	15291	O3*	G	A	731	173.668	105.106	-53.403	1.00	49.64	A16S
ATOM	15292	P	C	A	732	174.643	106.054	-54.267	1.00	56.95	A16S
ATOM	15293	O1P	C	A	732	175.377	105.169	-55.208	1.00	44.45	A16S
ATOM	15294	O2P	C	A	732	175.412	106.985	-53.387	1.00	44.45	A16S
ATOM	15295	O5*	C	A	732	173.629	106.944	-55.099	1.00	56.95	A16S
ATOM	15296	C5*	C	A	732	172.749	106.347	-56.041	1.00	56.95	A16S
ATOM	15297	C4*	C	A	732	172.091	107.416	-56.854	1.00	56.95	A16S
ATOM	15298	O4*	C	A	732	171.178	108.165	-56.020	1.00	56.95	A16S
ATOM	15299	C1*	C	A	732	171.205	109.527	-56.392	1.00	56.95	A16S
ATOM	15300	N1	C	A	732	171.578	110.310	-55.221	1.00	44.45	A16S
ATOM	15301	C6	C	A	732	172.229	109.732	-54.178	1.00	44.45	A16S
ATOM	15302	C2	C	A	732	171.253	111.649	-55.186	1.00	44.45	A16S
ATOM	15303	O2	C	A	732	170.635	112.135	-56.137	1.00	44.45	A16S
ATOM	15304	N3	C	A	732	171.603	112.386	-54.117	1.00	44.45	A16S
ATOM	15305	C4	C	A	732	172.229	111.811	-53.097	1.00	44.45	A16S
ATOM	15306	N4	C	A	732	172.538	112.563	-52.045	1.00	44.45	A16S
ATOM	15307	C5	C	A	732	172.562	110.437	-53.104	1.00	44.45	A16S
ATOM	15308	C2*	C	A	732	172.180	109.684	-57.555	1.00	56.95	A16S
ATOM	15309	O2*	C	A	732	171.461	109.659	-58.771	1.00	56.95	A16S
ATOM	15310	C3*	C	A	732	173.057	108.454	-57.390	1.00	56.95	A16S
ATOM	15311	O3*	C	A	732	173.626	108.034	-58.620	1.00	56.95	A16S
ATOM	15312	P	A	A	733	175.163	108.347	-58.922	1.00	69.24	A16S
ATOM	15313	O1P	A	A	733	175.655	107.354	-59.900	1.00	63.12	A16S
ATOM	15314	O2P	A	A	733	175.900	108.550	-57.651	1.00	63.12	A16S
ATOM	15315	O5*	A	A	733	175.138	109.745	-59.653	1.00	69.24	A16S
ATOM	15316	C5*	A	A	733	176.362	110.297	-60.047	1.00	69.24	A16S



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ATOM	15317	C4*	A	A	733	176.148	111.478	-60.915	1.00	69.24	A16S
ATOM	15318	O4*	A	A	733	175.582	112.561	-60.135	1.00	69.24	A16S
ATOM	15319	C1*	A	A	733	176.486	113.644	-60.119	1.00	69.24	A16S
ATOM	15320	N9	A	A	733	176.487	114.257	-58.794	1.00	63.12	A16S
ATOM	15321	C4	A	A	733	176.236	115.577	-58.525	1.00	63.12	A16S
ATOM	15322	N3	A	A	733	175.853	116.526	-59.396	1.00	63.12	A16S
ATOM	15323	C2	A	A	733	175.736	117.697	-58.781	1.00	63.12	A16S
ATOM	15324	N1	A	A	733	175.965	118.007	-57.496	1.00	63.12	A16S
ATOM	15325	C6	A	A	733	176.375	117.031	-56.662	1.00	63.12	A16S
ATOM	15326	N6	A	A	733	176.672	117.350	-55.401	1.00	63.12	A16S
ATOM	15327	C5	A	A	733	176.492	115.740	-57.181	1.00	63.12	A16S
ATOM	15328	N7	A	A	733	176.833	114.531	-56.599	1.00	63.12	A16S
ATOM	15329	C8	A	A	733	176.802	113.684	-57.591	1.00	63.12	A16S
ATOM	15330	C2*	A	A	733	177.857	113.058	-60.452	1.00	69.24	A16S
ATOM	15331	O2*	A	A	733	178.738	114.041	-60.964	1.00	69.24	A16S
ATOM	15332	C3*	A	A	733	177.484	111.959	-61.429	1.00	69.24	A16S
ATOM	15333	O3*	A	A	733	177.271	112.474	-62.714	1.00	69.24	A16S
ATOM	15334	P	G	A	734	177.698	111.612	-63.985	1.00	66.30	A16S
ATOM	15335	O1P	G	A	734	176.483	110.902	-64.494	1.00	65.28	A16S
ATOM	15336	O2P	G	A	734	178.908	110.833	-63.613	1.00	65.28	A16S
ATOM	15337	O5*	G	A	734	178.126	112.733	-65.024	1.00	66.30	A16S
ATOM	15338	C5*	G	A	734	178.737	113.951	-64.566	1.00	66.30	A16S
ATOM	15339	C4*	G	A	734	179.383	114.648	-65.721	1.00	66.30	A16S
ATOM	15340	O4*	G	A	734	180.454	113.803	-66.197	1.00	66.30	A16S
ATOM	15341	C1*	G	A	734	180.406	113.725	-67.601	1.00	66.30	A16S
ATOM	15342	N9	G	A	734	180.047	112.355	-67.943	1.00	65.28	A16S
ATOM	15343	C4	G	A	734	179.898	111.841	-69.206	1.00	65.28	A16S
ATOM	15344	N3	G	A	734	180.046	112.524	-70.359	1.00	65.28	A16S
ATOM	15345	C2	G	A	734	179.856	111.758	-71.413	1.00	65.28	A16S
ATOM	15346	N2	G	A	734	179.967	112.278	-72.643	1.00	65.28	A16S
ATOM	15347	N1	G	A	734	179.545	110.425	-71.344	1.00	65.28	A16S
ATOM	15348	C6	G	A	734	179.383	109.696	-70.171	1.00	65.28	A16S
ATOM	15349	O6	G	A	734	179.096	108.484	-70.222	1.00	65.28	A16S
ATOM	15350	C5	G	A	734	179.585	110.513	-69.024	1.00	65.28	A16S
ATOM	15351	N7	G	A	734	179.523	110.201	-67.671	1.00	65.28	A16S
ATOM	15352	C8	G	A	734	179.804	111.322	-67.070	1.00	65.28	A16S
ATOM	15353	C2*	G	A	734	179.381	114.750	-68.089	1.00	66.30	A16S
ATOM	15354	O2*	G	A	734	180.032	115.986	-68.306	1.00	66.30	A16S
ATOM	15355	C3*	G	A	734	178.441	114.817	-66.902	1.00	66.30	A16S
ATOM	15356	O3*	G	A	734	177.759	116.060	-66.830	1.00	66.30	A16S
ATOM	15357	P	C	A	735	176.179	116.117	-67.102	1.00	52.00	A16S
ATOM	15358	O1P	C	A	735	175.745	117.497	-66.727	1.00	72.74	A16S
ATOM	15359	O2P	C	A	735	175.535	114.935	-66.464	1.00	72.74	A16S
ATOM	15360	O5*	C	A	735	176.050	115.946	-68.678	1.00	52.00	A16S
ATOM	15361	C5*	C	A	735	176.507	116.975	-69.571	1.00	52.00	A16S
ATOM	15362	C4*	C	A	735	176.525	116.459	-70.984	1.00	52.00	A16S
ATOM	15363	O4*	C	A	735	177.428	115.331	-71.056	1.00	52.00	A16S
ATOM	15364	C1*	C	A	735	176.937	114.385	-71.980	1.00	52.00	A16S
ATOM	15365	N1	C	A	735	176.741	113.106	-71.296	1.00	72.74	A16S
ATOM	15366	C6	C	A	735	176.661	113.028	-69.937	1.00	72.74	A16S
ATOM	15367	C2	C	A	735	176.609	111.960	-72.076	1.00	72.74	A16S
ATOM	15368	O2	C	A	735	176.749	112.054	-73.310	1.00	72.74	A16S
ATOM	15369	N3	C	A	735	176.345	110.781	-71.480	1.00	72.74	A16S
ATOM	15370	C4	C	A	735	176.237	110.719	-70.159	1.00	72.74	A16S
ATOM	15371	N4	C	A	735	175.949	109.540	-69.620	1.00	72.74	A16S
ATOM	15372	C5	C	A	735	176.414	111.865	-69.332	1.00	72.74	A16S
ATOM	15373	C2*	C	A	735	175.623	114.908	-72.552	1.00	52.00	A16S
ATOM	15374	O2*	C	A	735	175.867	115.437	-73.838	1.00	52.00	A16S
ATOM	15375	C3*	C	A	735	175.201	115.916	-71.486	1.00	52.00	A16S
ATOM	15376	O3*	C	A	735	174.364	116.954	-71.978	1.00	52.00	A16S
ATOM	15377	P	C	A	736	172.779	116.719	-72.045	1.00	64.99	A16S
ATOM	15378	O1P	C	A	736	172.164	117.958	-72.582	1.00	68.12	A16S
ATOM	15379	O2P	C	A	736	172.320	116.161	-70.749	1.00	68.12	A16S
ATOM	15380	O5*	C	A	736	172.614	115.573	-73.126	1.00	64.99	A16S
ATOM	15381	C5*	C	A	736	173.075	115.780	-74.458	1.00	64.99	A16S
ATOM	15382	C4*	C	A	736	172.696	114.614	-75.320	1.00	64.99	A16S
ATOM	15383	O4*	C	A	736	173.522	113.465	-75.025	1.00	64.99	A16S
ATOM	15384	C1*	C	A	736	172.766	112.284	-75.218	1.00	64.99	A16S
ATOM	15385	N1	C	A	736	172.765	111.514	-73.973	1.00	68.12	A16S
ATOM	15386	C6	C	A	736	173.072	112.102	-72.779	1.00	68.12	A16S
ATOM	15387	C2	C	A	736	172.430	110.157	-74.028	1.00	68.12	A16S
ATOM	15388	O2	C	A	736	172.165	109.650	-75.120	1.00	68.12	A16S
ATOM	15389	N3	C	A	736	172.402	109.435	-72.893	1.00	68.12	A16S
ATOM	15390	C4	C	A	736	172.697	110.017	-71.733	1.00	68.12	A16S
ATOM	15391	N4	C	A	736	172.652	109.266	-70.636	1.00	68.12	A16S
ATOM	15392	C5	C	A	736	173.052	111.397	-71.646	1.00	68.12	A16S
ATOM	15393	C2*	C	A	736	171.352	112.689	-75.629	1.00	64.99	A16S



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ATOM	15394	O2*	C	A	736	171.236	112.616	-77.033	1.00	64.99	A16S
ATOM	15395	C3*	C	A	736	171.285	114.114	-75.110	1.00	64.99	A16S
ATOM	15396	O3*	C	A	736	170.355	114.909	-75.801	1.00	64.99	A16S
ATOM	15397	P	A	A	737	168.861	115.008	-75.248	1.00	51.69	A16S
ATOM	15398	O1P	A	A	737	168.242	116.184	-75.927	1.00	62.22	A16S
ATOM	15399	O2P	A	A	737	168.919	114.971	-73.756	1.00	62.22	A16S
ATOM	15400	O5*	A	A	737	168.206	113.646	-75.756	1.00	51.69	A16S
ATOM	15401	C5*	A	A	737	168.050	113.399	-77.157	1.00	51.69	A16S
ATOM	15402	C4*	A	A	737	167.604	111.984	-77.395	1.00	51.69	A16S
ATOM	15403	O4*	A	A	737	168.651	111.075	-76.994	1.00	51.69	A16S
ATOM	15404	C1*	A	A	737	168.075	109.870	-76.525	1.00	51.69	A16S
ATOM	15405	N9	A	A	737	168.506	109.643	-75.146	1.00	62.22	A16S
ATOM	15406	C4	A	A	737	168.622	108.422	-74.530	1.00	62.22	A16S
ATOM	15407	N3	A	A	737	168.372	107.214	-75.057	1.00	62.22	A16S
ATOM	15408	C2	A	A	737	168.582	106.256	-74.160	1.00	62.22	A16S
ATOM	15409	N1	A	A	737	168.984	106.361	-72.895	1.00	62.22	A16S
ATOM	15410	C6	A	A	737	169.224	107.591	-72.400	1.00	62.22	A16S
ATOM	15411	N6	A	A	737	169.617	107.703	-71.139	1.00	62.22	A16S
ATOM	15412	C5	A	A	737	169.040	108.687	-73.248	1.00	62.22	A16S
ATOM	15413	N7	A	A	737	169.189	110.049	-73.051	1.00	62.22	A16S
ATOM	15414	C8	A	A	737	168.863	110.570	-74.206	1.00	62.22	A16S
ATOM	15415	C2*	A	A	737	166.556	110.009	-76.623	1.00	51.69	A16S
ATOM	15416	O2*	A	A	737	166.092	109.458	-77.837	1.00	51.69	A16S
ATOM	15417	C3*	A	A	737	166.387	111.514	-76.615	1.00	51.69	A16S
ATOM	15418	O3*	A	A	737	165.162	111.875	-77.228	1.00	51.69	A16S
ATOM	15419	P	C	A	738	163.824	111.935	-76.342	1.00	58.31	A16S
ATOM	15420	O1P	C	A	738	162.754	112.489	-77.215	1.00	69.62	A16S
ATOM	15421	O2P	C	A	738	164.140	112.605	-75.055	1.00	69.62	A16S
ATOM	15422	O5*	C	A	738	163.490	110.405	-76.067	1.00	58.31	A16S
ATOM	15423	C5*	C	A	738	163.186	109.552	-77.165	1.00	58.31	A16S
ATOM	15424	C4*	C	A	738	163.184	108.117	-76.738	1.00	58.31	A16S
ATOM	15425	O4*	C	A	738	164.484	107.757	-76.227	1.00	58.31	A16S
ATOM	15426	C1*	C	A	738	164.339	106.773	-75.215	1.00	58.31	A16S
ATOM	15427	N1	C	A	738	164.914	107.272	-73.947	1.00	69.62	A16S
ATOM	15428	C6	C	A	738	165.096	108.609	-73.716	1.00	69.62	A16S
ATOM	15429	C2	C	A	738	165.268	106.332	-72.969	1.00	69.62	A16S
ATOM	15430	O2	C	A	738	165.094	105.122	-73.211	1.00	69.62	A16S
ATOM	15431	N3	C	A	738	165.787	106.758	-71.795	1.00	69.62	A16S
ATOM	15432	C4	C	A	738	165.963	108.061	-71.582	1.00	69.62	A16S
ATOM	15433	N4	C	A	738	166.488	108.433	-70.414	1.00	69.62	A16S
ATOM	15434	C5	C	A	738	165.612	109.043	-72.559	1.00	69.62	A16S
ATOM	15435	C2*	C	A	738	162.851	106.471	-75.082	1.00	58.31	A16S
ATOM	15436	O2*	C	A	738	162.550	105.356	-75.894	1.00	58.31	A16S
ATOM	15437	C3*	C	A	738	162.240	107.756	-75.616	1.00	58.31	A16S
ATOM	15438	O3*	C	A	738	160.927	107.565	-76.080	1.00	58.31	A16S
ATOM	15439	P	C	A	739	159.705	107.995	-75.140	1.00	76.87	A16S
ATOM	15440	O1P	C	A	739	158.439	107.811	-75.913	1.00	65.25	A16S
ATOM	15441	O2P	C	A	739	160.050	109.341	-74.576	1.00	65.25	A16S
ATOM	15442	O5*	C	A	739	159.728	106.893	-73.991	1.00	76.87	A16S
ATOM	15443	C5*	C	A	739	159.504	105.512	-74.318	1.00	76.87	A16S
ATOM	15444	C4*	C	A	739	159.639	104.647	-73.094	1.00	76.87	A16S
ATOM	15445	O4*	C	A	739	161.023	104.586	-72.673	1.00	76.87	A16S
ATOM	15446	C1*	C	A	739	161.086	104.528	-71.258	1.00	76.87	A16S
ATOM	15447	N1	C	A	739	161.793	105.729	-70.773	1.00	65.25	A16S
ATOM	15448	C6	C	A	739	161.898	106.846	-71.552	1.00	65.25	A16S
ATOM	15449	C2	C	A	739	162.361	105.708	-69.492	1.00	65.25	A16S
ATOM	15450	O2	C	A	739	162.254	104.678	-68.801	1.00	65.25	A16S
ATOM	15451	N3	C	A	739	163.011	106.804	-69.044	1.00	65.25	A16S
ATOM	15452	C4	C	A	739	163.111	107.884	-69.818	1.00	65.25	A16S
ATOM	15453	N4	C	A	739	163.766	108.939	-69.338	1.00	65.25	A16S
ATOM	15454	C5	C	A	739	162.544	107.932	-71.119	1.00	65.25	A16S
ATOM	15455	C2*	C	A	739	159.653	104.472	-70.737	1.00	76.87	A16S
ATOM	15456	O2*	C	A	739	159.257	103.128	-70.596	1.00	76.87	A16S
ATOM	15457	C3*	C	A	739	158.903	105.142	-71.869	1.00	76.87	A16S
ATOM	15458	O3*	C	A	739	157.544	104.797	-71.873	1.00	76.87	A16S
ATOM	15459	P	U	A	740	156.499	105.807	-71.207	1.00	74.78	A16S
ATOM	15460	O1P	U	A	740	155.155	105.168	-71.349	1.00	51.48	A16S
ATOM	15461	O2P	U	A	740	156.731	107.182	-71.751	1.00	51.48	A16S
ATOM	15462	O5*	U	A	740	156.957	105.847	-69.678	1.00	74.78	A16S
ATOM	15463	C5*	U	A	740	156.817	104.690	-68.842	1.00	74.78	A16S
ATOM	15464	C4*	U	A	740	157.400	104.934	-67.467	1.00	74.78	A16S
ATOM	15465	O4*	U	A	740	158.830	105.151	-67.565	1.00	74.78	A16S
ATOM	15466	C1*	U	A	740	159.262	105.932	-66.465	1.00	74.78	A16S
ATOM	15467	N1	U	A	740	159.906	107.171	-66.937	1.00	51.48	A16S
ATOM	15468	C6	U	A	740	159.730	107.657	-68.210	1.00	51.48	A16S
ATOM	15469	C2	U	A	740	160.707	107.856	-66.021	1.00	51.48	A16S
ATOM	15470	O2	U	A	740	160.927	107.453	-64.882	1.00	51.48	A16S



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ATOM	15471	N3	U	A	740	161.244	109.029	-66.482	1.00	51.48	A16S
ATOM	15472	C4	U	A	740	161.087	109.581	-67.722	1.00	51.48	A16S
ATOM	15473	O4	U	A	740	161.541	110.713	-67.932	1.00	51.48	A16S
ATOM	15474	C5	U	A	740	160.280	108.804	-68.623	1.00	51.48	A16S
ATOM	15475	C2*	U	A	740	158.034	106.255	-65.628	1.00	74.78	A16S
ATOM	15476	O2*	U	A	740	157.919	105.277	-64.617	1.00	74.78	A16S
ATOM	15477	C3*	U	A	740	156.925	106.128	-66.655	1.00	74.78	A16S
ATOM	15478	O3*	U	A	740	155.683	105.949	-66.001	1.00	74.78	A16S
ATOM	15479	P	G	A	741	155.021	107.197	-65.221	1.00	60.64	A16S
ATOM	15480	O1P	G	A	741	153.565	106.926	-65.039	1.00	55.52	A16S
ATOM	15481	O2P	G	A	741	155.455	108.454	-65.881	1.00	55.52	A16S
ATOM	15482	O5*	G	A	741	155.713	107.152	-63.785	1.00	60.64	A16S
ATOM	15483	C5*	G	A	741	155.579	105.995	-62.941	1.00	60.64	A16S
ATOM	15484	C4*	G	A	741	156.143	106.272	-61.567	1.00	60.64	A16S
ATOM	15485	O4*	G	A	741	157.590	106.441	-61.643	1.00	60.64	A16S
ATOM	15486	C1*	G	A	741	158.015	107.393	-60.672	1.00	60.64	A16S
ATOM	15487	N9	G	A	741	158.496	108.599	-61.350	1.00	55.52	A16S
ATOM	15488	C4	G	A	741	159.253	109.620	-60.799	1.00	55.52	A16S
ATOM	15489	N3	G	A	741	159.761	109.651	-59.555	1.00	55.52	A16S
ATOM	15490	C2	G	A	741	160.381	110.797	-59.308	1.00	55.52	A16S
ATOM	15491	N2	G	A	741	160.931	111.009	-58.112	1.00	55.52	A16S
ATOM	15492	N1	G	A	741	160.503	111.821	-60.209	1.00	55.52	A16S
ATOM	15493	C6	G	A	741	159.994	111.806	-61.493	1.00	55.52	A16S
ATOM	15494	O6	G	A	741	160.148	112.781	-62.223	1.00	55.52	A16S
ATOM	15495	C5	G	A	741	159.325	110.591	-61.776	1.00	55.52	A16S
ATOM	15496	N7	G	A	741	158.682	110.175	-62.930	1.00	55.52	A16S
ATOM	15497	C8	G	A	741	158.220	108.986	-62.637	1.00	55.52	A16S
ATOM	15498	C2*	G	A	741	156.774	107.780	-59.868	1.00	60.64	A16S
ATOM	15499	O2*	G	A	741	156.658	106.954	-58.726	1.00	60.64	A16S
ATOM	15500	C3*	G	A	741	155.668	107.545	-60.887	1.00	60.64	A16S
ATOM	15501	O3*	G	A	741	154.365	107.507	-60.311	1.00	60.64	A16S
ATOM	15502	P	G	A	742	153.541	108.891	-60.145	1.00	64.80	A16S
ATOM	15503	O1P	G	A	742	152.184	108.549	-59.673	1.00	50.12	A16S
ATOM	15504	O2P	G	A	742	153.696	109.733	-61.355	1.00	50.12	A16S
ATOM	15505	O5*	G	A	742	154.304	109.649	-58.971	1.00	64.80	A16S
ATOM	15506	C5*	G	A	742	154.496	109.010	-57.699	1.00	64.80	A16S
ATOM	15507	C4*	G	A	742	155.479	109.785	-56.861	1.00	64.80	A16S
ATOM	15508	O4*	G	A	742	156.717	109.928	-57.599	1.00	64.80	A16S
ATOM	15509	C1*	G	A	742	157.305	111.186	-57.317	1.00	64.80	A16S
ATOM	15510	N9	G	A	742	157.347	111.956	-58.555	1.00	50.12	A16S
ATOM	15511	C4	G	A	742	157.946	113.177	-58.743	1.00	50.12	A16S
ATOM	15512	N3	G	A	742	158.618	113.885	-57.810	1.00	50.12	A16S
ATOM	15513	C2	G	A	742	159.048	115.040	-58.284	1.00	50.12	A16S
ATOM	15514	N2	G	A	742	159.727	115.877	-57.489	1.00	50.12	A16S
ATOM	15515	N1	G	A	742	158.835	115.459	-59.573	1.00	50.12	A16S
ATOM	15516	C6	G	A	742	158.144	114.738	-60.548	1.00	50.12	A16S
ATOM	15517	O6	G	A	742	157.988	115.209	-61.685	1.00	50.12	A16S
ATOM	15518	C5	G	A	742	157.688	113.509	-60.054	1.00	50.12	A16S
ATOM	15519	N7	G	A	742	156.966	112.512	-60.685	1.00	50.12	A16S
ATOM	15520	C8	G	A	742	156.784	111.612	-59.759	1.00	50.12	A16S
ATOM	15521	C2*	G	A	742	156.443	111.868	-56.260	1.00	64.80	A16S
ATOM	15522	O2*	G	A	742	156.999	111.576	-54.988	1.00	64.80	A16S
ATOM	15523	C3*	G	A	742	155.089	111.209	-56.506	1.00	64.80	A16S
ATOM	15524	O3*	G	A	742	154.251	111.249	-55.363	1.00	64.80	A16S
ATOM	15525	P	U	A	743	153.119	112.385	-55.252	1.00	63.51	A16S
ATOM	15526	O1P	U	A	743	152.490	112.214	-53.913	1.00	68.87	A16S
ATOM	15527	O2P	U	A	743	152.270	112.345	-56.473	1.00	68.87	A16S
ATOM	15528	O5*	U	A	743	153.936	113.752	-55.280	1.00	63.51	A16S
ATOM	15529	C5*	U	A	743	154.889	114.059	-54.258	1.00	63.51	A16S
ATOM	15530	C4*	U	A	743	155.608	115.332	-54.599	1.00	63.51	A16S
ATOM	15531	O4*	U	A	743	156.317	115.151	-55.843	1.00	63.51	A16S
ATOM	15532	C1*	U	A	743	156.336	116.372	-56.562	1.00	63.51	A16S
ATOM	15533	N1	U	A	743	155.744	116.167	-57.887	1.00	68.87	A16S
ATOM	15534	C6	U	A	743	154.950	115.083	-58.177	1.00	68.87	A16S
ATOM	15535	C2	U	A	743	156.020	117.127	-58.839	1.00	68.87	A16S
ATOM	15536	O2	U	A	743	156.718	118.109	-58.608	1.00	68.87	A16S
ATOM	15537	N3	U	A	743	155.450	116.904	-60.067	1.00	68.87	A16S
ATOM	15538	C4	U	A	743	154.651	115.843	-60.428	1.00	68.87	A16S
ATOM	15539	O4	U	A	743	154.252	115.758	-61.593	1.00	68.87	A16S
ATOM	15540	C5	U	A	743	154.407	114.894	-59.381	1.00	68.87	A16S
ATOM	15541	C2*	U	A	743	155.557	117.409	-55.770	1.00	63.51	A16S
ATOM	15542	O2*	U	A	743	156.471	118.244	-55.104	1.00	63.51	A16S
ATOM	15543	C3*	U	A	743	154.709	116.523	-54.869	1.00	63.51	A16S
ATOM	15544	O3*	U	A	743	154.332	117.166	-53.674	1.00	63.51	A16S
ATOM	15545	P	C	A	744	152.971	118.011	-53.632	1.00	62.37	A16S
ATOM	15546	O1P	C	A	744	152.650	118.134	-52.182	1.00	60.80	A16S
ATOM	15547	O2P	C	A	744	151.972	117.400	-54.560	1.00	60.80	A16S



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ATOM	15548	O5*	C	A	744	153.417	119.436	-54.186	1.00	62.37	A16S
ATOM	15549	C5*	C	A	744	154.436	120.189	-53.510	1.00	62.37	A16S
ATOM	15550	C4*	C	A	744	154.815	121.393	-54.325	1.00	62.37	A16S
ATOM	15551	O4*	C	A	744	155.451	120.966	-55.558	1.00	62.37	A16S
ATOM	15552	C1*	C	A	744	155.081	121.840	-56.615	1.00	62.37	A16S
ATOM	15553	N1	C	A	744	154.332	121.078	-57.633	1.00	60.80	A16S
ATOM	15554	C6	C	A	744	153.641	119.942	-57.302	1.00	60.80	A16S
ATOM	15555	C2	C	A	744	154.335	121.540	-58.953	1.00	60.80	A16S
ATOM	15556	O2	C	A	744	154.968	122.581	-59.226	1.00	60.80	A16S
ATOM	15557	N3	C	A	744	153.651	120.843	-59.895	1.00	60.80	A16S
ATOM	15558	C4	C	A	744	152.994	119.730	-59.560	1.00	60.80	A16S
ATOM	15559	N4	C	A	744	152.359	119.064	-60.517	1.00	60.80	A16S
ATOM	15560	C5	C	A	744	152.966	119.246	-58.227	1.00	60.80	A16S
ATOM	15561	C2*	C	A	744	154.212	122.942	-56.020	1.00	62.37	A16S
ATOM	15562	O2*	C	A	744	155.036	124.048	-55.723	1.00	62.37	A16S
ATOM	15563	C3*	C	A	744	153.651	122.250	-54.786	1.00	62.37	A16S
ATOM	15564	O3*	C	A	744	153.219	123.166	-53.794	1.00	62.37	A16S
ATOM	15565	P	C	A	745	151.703	123.701	-53.824	1.00	61.43	A16S
ATOM	15566	O1P	C	A	745	151.459	124.336	-52.508	1.00	56.08	A16S
ATOM	15567	O2P	C	A	745	150.806	122.603	-54.285	1.00	56.08	A16S
ATOM	15568	O5*	C	A	745	151.732	124.822	-54.954	1.00	61.43	A16S
ATOM	15569	C5*	C	A	745	152.644	125.928	-54.860	1.00	61.43	A16S
ATOM	15570	C4*	C	A	745	152.571	126.769	-56.109	1.00	61.43	A16S
ATOM	15571	O4*	C	A	745	153.114	126.032	-57.226	1.00	61.43	A16S
ATOM	15572	C1*	C	A	745	152.377	126.331	-58.396	1.00	61.43	A16S
ATOM	15573	N1	C	A	745	151.766	125.092	-58.885	1.00	56.08	A16S
ATOM	15574	C6	C	A	745	151.594	124.011	-58.064	1.00	56.08	A16S
ATOM	15575	C2	C	A	745	151.371	125.037	-60.215	1.00	56.08	A16S
ATOM	15576	O2	C	A	745	151.525	126.051	-60.925	1.00	56.08	A16S
ATOM	15577	N3	C	A	745	150.830	123.894	-60.697	1.00	56.08	A16S
ATOM	15578	C4	C	A	745	150.675	122.840	-59.893	1.00	56.08	A16S
ATOM	15579	N4	C	A	745	150.141	121.733	-60.408	1.00	56.08	A16S
ATOM	15580	C5	C	A	745	151.061	122.875	-58.522	1.00	56.08	A16S
ATOM	15581	C2*	C	A	745	151.321	127.370	-58.042	1.00	61.43	A16S
ATOM	15582	O2*	C	A	745	151.814	128.653	-58.345	1.00	61.43	A16S
ATOM	15583	C3*	C	A	745	151.168	127.137	-56.551	1.00	61.43	A16S
ATOM	15584	O3*	C	A	745	150.697	128.286	-55.891	1.00	61.43	A16S
ATOM	15585	P	A	A	746	149.123	128.528	-55.797	1.00	71.80	A16S
ATOM	15586	O1P	A	A	746	148.935	129.687	-54.886	1.00	72.32	A16S
ATOM	15587	O2P	A	A	746	148.455	127.232	-55.494	1.00	72.32	A16S
ATOM	15588	O5*	A	A	746	148.742	128.934	-57.284	1.00	71.80	A16S
ATOM	15589	C5*	A	A	746	149.275	130.125	-57.864	1.00	71.80	A16S
ATOM	15590	C4*	A	A	746	148.689	130.325	-59.225	1.00	71.80	A16S
ATOM	15591	O4*	A	A	746	149.143	129.264	-60.091	1.00	71.80	A16S
ATOM	15592	C1*	A	A	746	148.090	128.863	-60.942	1.00	71.80	A16S
ATOM	15593	N9	A	A	746	147.806	127.458	-60.672	1.00	72.32	A16S
ATOM	15594	C4	A	A	746	147.317	126.540	-61.566	1.00	72.32	A16S
ATOM	15595	N3	A	A	746	146.989	126.750	-62.848	1.00	72.32	A16S
ATOM	15596	C2	A	A	746	146.547	125.629	-63.405	1.00	72.32	A16S
ATOM	15597	N1	A	A	746	146.416	124.415	-62.869	1.00	72.32	A16S
ATOM	15598	C6	A	A	746	146.765	124.241	-61.578	1.00	72.32	A16S
ATOM	15599	N6	A	A	746	146.649	123.029	-61.041	1.00	72.32	A16S
ATOM	15600	C5	A	A	746	147.236	125.350	-60.877	1.00	72.32	A16S
ATOM	15601	N7	A	A	746	147.657	125.510	-59.567	1.00	72.32	A16S
ATOM	15602	C8	A	A	746	147.979	126.778	-59.494	1.00	72.32	A16S
ATOM	15603	C2*	A	A	746	146.899	129.778	-60.674	1.00	71.80	A16S
ATOM	15604	O2*	A	A	746	146.949	130.859	-61.580	1.00	71.80	A16S
ATOM	15605	C3*	A	A	746	147.178	130.233	-59.254	1.00	71.80	A16S
ATOM	15606	O3*	A	A	746	146.606	131.496	-58.979	1.00	71.80	A16S
ATOM	15607	P	C	A	747	145.069	131.587	-58.542	1.00	81.22	A16S
ATOM	15608	O1P	C	A	747	144.720	133.036	-58.565	1.00	85.91	A16S
ATOM	15609	O2P	C	A	747	144.882	130.804	-57.289	1.00	85.91	A16S
ATOM	15610	O5*	C	A	747	144.297	130.857	-59.731	1.00	81.22	A16S
ATOM	15611	C5*	C	A	747	144.188	131.489	-61.020	1.00	81.22	A16S
ATOM	15612	C4*	C	A	747	143.216	130.741	-61.897	1.00	81.22	A16S
ATOM	15613	O4*	C	A	747	143.792	129.497	-62.357	1.00	81.22	A16S
ATOM	15614	C1*	C	A	747	142.777	128.516	-62.475	1.00	81.22	A16S
ATOM	15615	N1	C	A	747	143.166	127.354	-61.656	1.00	85.91	A16S
ATOM	15616	C6	C	A	747	143.821	127.534	-60.470	1.00	85.91	A16S
ATOM	15617	C2	C	A	747	142.854	126.055	-62.102	1.00	85.91	A16S
ATOM	15618	O2	C	A	747	142.284	125.904	-63.191	1.00	85.91	A16S
ATOM	15619	N3	C	A	747	143.189	125.000	-61.335	1.00	85.91	A16S
ATOM	15620	C4	C	A	747	143.816	125.195	-60.172	1.00	85.91	A16S
ATOM	15621	N4	C	A	747	144.112	124.127	-59.434	1.00	85.91	A16S
ATOM	15622	C5	C	A	747	144.164	126.496	-59.709	1.00	85.91	A16S
ATOM	15623	C2*	C	A	747	141.444	129.165	-62.080	1.00	81.22	A16S
ATOM	15624	O2*	C	A	747	140.754	129.531	-63.259	1.00	81.22	A16S



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ATOM	15625	C3*	C	A	747	141.905	130.360	-61.244	1.00	81.22	A16S
ATOM	15626	O3*	C	A	747	141.035	131.475	-61.317	1.00	81.22	A16S
ATOM	15627	P	C	A	748	139.778	131.572	-60.336	1.00	92.65	A16S
ATOM	15628	O1P	C	A	748	139.247	132.941	-60.477	1.00	91.43	A16S
ATOM	15629	O2P	C	A	748	140.136	131.067	-58.997	1.00	91.43	A16S
ATOM	15630	O5*	C	A	748	138.734	130.580	-61.005	1.00	92.65	A16S
ATOM	15631	C5*	C	A	748	137.620	130.091	-60.262	1.00	92.65	A16S
ATOM	15632	C4*	C	A	748	137.701	128.599	-60.156	1.00	92.65	A16S
ATOM	15633	O4*	C	A	748	139.088	128.248	-60.007	1.00	92.65	A16S
ATOM	15634	C1*	C	A	748	139.212	127.182	-59.096	1.00	92.65	A16S
ATOM	15635	N1	C	A	748	140.333	127.474	-58.183	1.00	91.43	A16S
ATOM	15636	C6	C	A	748	140.480	128.709	-57.621	1.00	91.43	A16S
ATOM	15637	C2	C	A	748	141.286	126.472	-57.940	1.00	91.43	A16S
ATOM	15638	O2	C	A	748	141.100	125.336	-58.405	1.00	91.43	A16S
ATOM	15639	N3	C	A	748	142.381	126.764	-57.205	1.00	91.43	A16S
ATOM	15640	C4	C	A	748	142.538	127.986	-56.703	1.00	91.43	A16S
ATOM	15641	N4	C	A	748	143.652	128.240	-56.017	1.00	91.43	A16S
ATOM	15642	C5	C	A	748	141.562	129.008	-56.888	1.00	91.43	A16S
ATOM	15643	C2*	C	A	748	137.831	126.816	-58.543	1.00	92.65	A16S
ATOM	15644	O2*	C	A	748	137.457	125.594	-59.134	1.00	92.65	A16S
ATOM	15645	C3*	C	A	748	136.994	128.036	-58.940	1.00	92.65	A16S
ATOM	15646	O3*	C	A	748	135.572	127.918	-59.189	1.00	92.65	A16S
ATOM	15647	P	C	A	749	134.932	126.639	-59.960	1.00	62.39	A16S
ATOM	15648	O1P	C	A	749	133.546	127.057	-60.266	1.00	93.07	A16S
ATOM	15649	O2P	C	A	749	135.144	125.377	-59.206	1.00	93.07	A16S
ATOM	15650	O5*	C	A	749	135.679	126.550	-61.360	1.00	62.39	A16S
ATOM	15651	C5*	C	A	749	134.918	126.561	-62.579	1.00	62.39	A16S
ATOM	15652	C4*	C	A	749	134.989	125.218	-63.264	1.00	62.39	A16S
ATOM	15653	O4*	C	A	749	136.356	124.980	-63.680	1.00	62.39	A16S
ATOM	15654	C1*	C	A	749	136.641	123.593	-63.621	1.00	62.39	A16S
ATOM	15655	N1	C	A	749	137.786	123.379	-62.703	1.00	93.07	A16S
ATOM	15656	C6	C	A	749	138.327	124.420	-61.997	1.00	93.07	A16S
ATOM	15657	C2	C	A	749	138.296	122.071	-62.539	1.00	93.07	A16S
ATOM	15658	O2	C	A	749	137.854	121.152	-63.245	1.00	93.07	A16S
ATOM	15659	N3	C	A	749	139.262	121.852	-61.624	1.00	93.07	A16S
ATOM	15660	C4	C	A	749	139.746	122.869	-60.908	1.00	93.07	A16S
ATOM	15661	N4	C	A	749	140.669	122.592	-59.984	1.00	93.07	A16S
ATOM	15662	C5	C	A	749	139.299	124.212	-61.101	1.00	93.07	A16S
ATOM	15663	C2*	C	A	749	135.363	122.875	-63.159	1.00	62.39	A16S
ATOM	15664	O2*	C	A	749	134.654	122.339	-64.261	1.00	62.39	A16S
ATOM	15665	C3*	C	A	749	134.607	123.991	-62.447	1.00	62.39	A16S
ATOM	15666	O3*	C	A	749	133.203	123.735	-62.469	1.00	62.39	A16S
ATOM	15667	P	G	A	750	132.540	122.750	-61.369	1.00	64.52	A16S
ATOM	15668	O1P	G	A	750	131.064	122.753	-61.575	1.00	73.82	A16S
ATOM	15669	O2P	G	A	750	133.096	123.110	-60.026	1.00	73.82	A16S
ATOM	15670	O5*	G	A	750	133.044	121.294	-61.778	1.00	64.52	A16S
ATOM	15671	C5*	G	A	750	132.482	120.612	-62.905	1.00	64.52	A16S
ATOM	15672	C4*	G	A	750	132.975	119.191	-62.941	1.00	64.52	A16S
ATOM	15673	O4*	G	A	750	134.424	119.220	-62.903	1.00	64.52	A16S
ATOM	15674	C1*	G	A	750	134.909	118.155	-62.100	1.00	64.52	A16S
ATOM	15675	N9	G	A	750	135.624	118.728	-60.956	1.00	73.82	A16S
ATOM	15676	C4	G	A	750	136.279	118.039	-59.947	1.00	73.82	A16S
ATOM	15677	N3	G	A	750	136.375	116.699	-59.824	1.00	73.82	A16S
ATOM	15678	C2	G	A	750	137.071	116.344	-58.751	1.00	73.82	A16S
ATOM	15679	N2	G	A	750	137.265	115.056	-58.483	1.00	73.82	A16S
ATOM	15680	N1	G	A	750	137.627	117.224	-57.866	1.00	73.82	A16S
ATOM	15681	C6	G	A	750	137.547	118.604	-57.964	1.00	73.82	A16S
ATOM	15682	O6	G	A	750	138.090	119.309	-57.106	1.00	73.82	A16S
ATOM	15683	C5	G	A	750	136.799	119.010	-59.121	1.00	73.82	A16S
ATOM	15684	N7	G	A	750	136.479	120.280	-59.589	1.00	73.82	A16S
ATOM	15685	C8	G	A	750	135.784	120.063	-60.672	1.00	73.82	A16S
ATOM	15686	C2*	G	A	750	133.704	117.302	-61.707	1.00	64.52	A16S
ATOM	15687	O2*	G	A	750	133.522	116.296	-62.681	1.00	64.52	A16S
ATOM	15688	C3*	G	A	750	132.581	118.325	-61.754	1.00	64.52	A16S
ATOM	15689	O3*	G	A	750	131.320	117.692	-61.927	1.00	64.52	A16S
ATOM	15690	P	U	A	751	130.452	117.291	-60.634	1.00	72.79	A16S
ATOM	15691	O1P	U	A	751	129.170	116.693	-61.098	1.00	58.94	A16S
ATOM	15692	O2P	U	A	751	130.430	118.481	-59.742	1.00	58.94	A16S
ATOM	15693	O5*	U	A	751	131.284	116.123	-59.934	1.00	72.79	A16S
ATOM	15694	C5*	U	A	751	131.266	114.787	-60.478	1.00	72.79	A16S
ATOM	15695	C4*	U	A	751	131.938	113.801	-59.537	1.00	72.79	A16S
ATOM	15696	O4*	U	A	751	133.322	114.169	-59.329	1.00	72.79	A16S
ATOM	15697	C1*	U	A	751	133.715	113.804	-58.022	1.00	72.79	A16S
ATOM	15698	N1	U	A	751	134.170	115.012	-57.318	1.00	58.94	A16S
ATOM	15699	C6	U	A	751	133.950	116.263	-57.827	1.00	58.94	A16S
ATOM	15700	C2	U	A	751	134.854	114.850	-56.130	1.00	58.94	A16S
ATOM	15701	O2	U	A	751	135.042	113.765	-55.614	1.00	58.94	A16S



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ATOM	15702	N3	U	A	751	135.311	116.005	-55.560	1.00	58.94	A16S
ATOM	15703	C4	U	A	751	135.155	117.268	-56.034	1.00	58.94	A16S
ATOM	15704	O4	U	A	751	135.758	118.179	-55.492	1.00	58.94	A16S
ATOM	15705	C5	U	A	751	134.405	117.367	-57.239	1.00	58.94	A16S
ATOM	15706	C2*	U	A	751	132.536	113.103	-57.348	1.00	72.79	A16S
ATOM	15707	O2*	U	A	751	132.666	111.703	-57.521	1.00	72.79	A16S
ATOM	15708	C3*	U	A	751	131.357	113.647	-58.138	1.00	72.79	A16S
ATOM	15709	O3*	U	A	751	130.320	112.677	-58.135	1.00	72.79	A16S
ATOM	15710	P	G	A	752	129.008	112.913	-57.241	1.00	63.45	A16S
ATOM	15711	O1P	G	A	752	128.203	111.663	-57.347	1.00	66.38	A16S
ATOM	15712	O2P	G	A	752	128.415	114.221	-57.664	1.00	66.38	A16S
ATOM	15713	O5*	G	A	752	129.548	113.039	-55.742	1.00	63.45	A16S
ATOM	15714	C5*	G	A	752	130.356	112.002	-55.153	1.00	63.45	A16S
ATOM	15715	C4*	G	A	752	130.969	112.490	-53.862	1.00	63.45	A16S
ATOM	15716	O4*	G	A	752	131.698	113.720	-54.113	1.00	63.45	A16S
ATOM	15717	C1*	G	A	752	131.255	114.722	-53.229	1.00	63.45	A16S
ATOM	15718	N9	G	A	752	131.294	115.993	-53.923	1.00	66.38	A16S
ATOM	15719	C4	G	A	752	132.131	117.040	-53.652	1.00	66.38	A16S
ATOM	15720	N3	G	A	752	133.071	117.072	-52.690	1.00	66.38	A16S
ATOM	15721	C2	G	A	752	133.704	118.233	-52.659	1.00	66.38	A16S
ATOM	15722	N2	G	A	752	134.673	118.452	-51.753	1.00	66.38	A16S
ATOM	15723	N1	G	A	752	133.434	119.269	-53.510	1.00	66.38	A16S
ATOM	15724	C6	G	A	752	132.473	119.249	-54.513	1.00	66.38	A16S
ATOM	15725	O6	G	A	752	132.313	120.243	-55.236	1.00	66.38	A16S
ATOM	15726	C5	G	A	752	131.789	118.020	-54.550	1.00	66.38	A16S
ATOM	15727	N7	G	A	752	130.762	117.595	-55.374	1.00	66.38	A16S
ATOM	15728	C8	G	A	752	130.504	116.385	-54.967	1.00	66.38	A16S
ATOM	15729	C2*	G	A	752	129.851	114.315	-52.812	1.00	63.45	A16S
ATOM	15730	O2*	G	A	752	129.505	114.946	-51.598	1.00	63.45	A16S
ATOM	15731	C3*	G	A	752	130.001	112.803	-52.728	1.00	63.45	A16S
ATOM	15732	O3*	G	A	752	130.668	112.483	-51.513	1.00	63.45	A16S
ATOM	15733	P	A	A	753	129.922	111.613	-50.389	1.00	47.21	A16S
ATOM	15734	O1P	A	A	753	129.539	110.319	-51.011	1.00	60.42	A16S
ATOM	15735	O2P	A	A	753	128.876	112.471	-49.768	1.00	60.42	A16S
ATOM	15736	O5*	A	A	753	131.080	111.310	-49.331	1.00	47.21	A16S
ATOM	15737	C5*	A	A	753	132.145	110.389	-49.657	1.00	47.21	A16S
ATOM	15738	C4*	A	A	753	133.155	110.340	-48.543	1.00	47.21	A16S
ATOM	15739	O4*	A	A	753	133.875	111.597	-48.478	1.00	47.21	A16S
ATOM	15740	C1*	A	A	753	133.827	112.092	-47.160	1.00	47.21	A16S
ATOM	15741	N9	A	A	753	133.836	113.549	-47.186	1.00	60.42	A16S
ATOM	15742	C4	A	A	753	134.576	114.354	-46.362	1.00	60.42	A16S
ATOM	15743	N3	A	A	753	135.392	113.966	-45.381	1.00	60.42	A16S
ATOM	15744	C2	A	A	753	135.984	115.020	-44.827	1.00	60.42	A16S
ATOM	15745	N1	A	A	753	135.856	116.320	-45.119	1.00	60.42	A16S
ATOM	15746	C6	A	A	753	135.017	116.673	-46.106	1.00	60.42	A16S
ATOM	15747	N6	A	A	753	134.887	117.974	-46.394	1.00	60.42	A16S
ATOM	15748	C5	A	A	753	134.332	115.646	-46.773	1.00	60.42	A16S
ATOM	15749	N7	A	A	753	133.425	115.659	-47.816	1.00	60.42	A16S
ATOM	15750	C8	A	A	753	133.158	114.392	-48.019	1.00	60.42	A16S
ATOM	15751	C2*	A	A	753	132.579	111.492	-46.533	1.00	47.21	A16S
ATOM	15752	O2*	A	A	753	132.737	111.530	-45.127	1.00	47.21	A16S
ATOM	15753	C3*	A	A	753	132.578	110.096	-47.153	1.00	47.21	A16S
ATOM	15754	O3*	A	A	753	133.473	109.267	-46.427	1.00	47.21	A16S
ATOM	15755	P	C	A	754	133.421	107.673	-46.620	1.00	54.70	A16S
ATOM	15756	O1P	C	A	754	132.011	107.194	-46.739	1.00	48.74	A16S
ATOM	15757	O2P	C	A	754	134.323	107.080	-45.593	1.00	48.74	A16S
ATOM	15758	O5*	C	A	754	134.121	107.448	-48.026	1.00	54.70	A16S
ATOM	15759	C5*	C	A	754	135.498	107.786	-48.208	1.00	54.70	A16S
ATOM	15760	C4*	C	A	754	135.919	107.425	-49.595	1.00	54.70	A16S
ATOM	15761	O4*	C	A	754	135.025	108.072	-50.523	1.00	54.70	A16S
ATOM	15762	C1*	C	A	754	135.733	108.423	-51.687	1.00	54.70	A16S
ATOM	15763	N1	C	A	754	135.461	109.840	-51.942	1.00	48.74	A16S
ATOM	15764	C6	C	A	754	134.815	110.229	-53.079	1.00	48.74	A16S
ATOM	15765	C2	C	A	754	135.856	110.784	-51.001	1.00	48.74	A16S
ATOM	15766	O2	C	A	754	136.448	110.399	-49.985	1.00	48.74	A16S
ATOM	15767	N3	C	A	754	135.582	112.089	-51.218	1.00	48.74	A16S
ATOM	15768	C4	C	A	754	134.937	112.453	-52.320	1.00	48.74	A16S
ATOM	15769	N4	C	A	754	134.670	113.733	-52.479	1.00	48.74	A16S
ATOM	15770	C5	C	A	754	134.533	111.512	-53.304	1.00	48.74	A16S
ATOM	15771	C2*	C	A	754	137.207	108.015	-51.507	1.00	54.70	A16S
ATOM	15772	O2*	C	A	754	137.482	106.802	-52.194	1.00	54.70	A16S
ATOM	15773	C3*	C	A	754	137.316	107.860	-49.992	1.00	54.70	A16S
ATOM	15774	O3*	C	A	754	138.239	106.842	-49.631	1.00	54.70	A16S
ATOM	15775	P	G	A	755	139.798	107.189	-49.513	1.00	50.89	A16S
ATOM	15776	O1P	G	A	755	140.205	107.780	-50.824	1.00	56.08	A16S
ATOM	15777	O2P	G	A	755	140.507	105.988	-49.006	1.00	56.08	A16S
ATOM	15778	O5*	G	A	755	139.852	108.296	-48.361	1.00	50.89	A16S



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ATOM	15779	C5*	G	A	755	140.177	109.667	-48.658	1.00	50.89	A16S
ATOM	15780	C4*	G	A	755	140.408	110.441	-47.384	1.00	50.89	A16S
ATOM	15781	O4*	G	A	755	139.181	110.469	-46.621	1.00	50.89	A16S
ATOM	15782	C1*	G	A	755	139.463	110.276	-45.249	1.00	50.89	A16S
ATOM	15783	N9	G	A	755	138.972	108.949	-44.882	1.00	56.08	A16S
ATOM	15784	C4	G	A	755	139.077	108.343	-43.653	1.00	56.08	A16S
ATOM	15785	N3	G	A	755	139.639	108.875	-42.558	1.00	56.08	A16S
ATOM	15786	C2	G	A	755	139.609	108.040	-41.540	1.00	56.08	A16S
ATOM	15787	N2	G	A	755	140.138	108.404	-40.361	1.00	56.08	A16S
ATOM	15788	N1	G	A	755	139.066	106.791	-41.597	1.00	56.08	A16S
ATOM	15789	C6	G	A	755	138.488	106.228	-42.716	1.00	56.08	A16S
ATOM	15790	O6	G	A	755	138.042	105.087	-42.663	1.00	56.08	A16S
ATOM	15791	C5	G	A	755	138.511	107.101	-43.807	1.00	56.08	A16S
ATOM	15792	N7	G	A	755	138.039	106.930	-45.097	1.00	56.08	A16S
ATOM	15793	C8	G	A	755	138.332	108.049	-45.700	1.00	56.08	A16S
ATOM	15794	C2*	G	A	755	140.976	110.363	-45.099	1.00	50.89	A16S
ATOM	15795	O2*	G	A	755	141.337	111.715	-44.955	1.00	50.89	A16S
ATOM	15796	C3*	G	A	755	141.426	109.836	-46.441	1.00	50.89	A16S
ATOM	15797	O3*	G	A	755	142.732	110.243	-46.756	1.00	50.89	A16S
ATOM	15798	P	C	A	756	143.928	109.174	-46.667	1.00	45.32	A16S
ATOM	15799	O1P	C	A	756	145.050	109.712	-47.479	1.00	53.09	A16S
ATOM	15800	O2P	C	A	756	143.365	107.835	-46.994	1.00	53.09	A16S
ATOM	15801	O5*	C	A	756	144.327	109.186	-45.127	1.00	45.32	A16S
ATOM	15802	C5*	C	A	756	144.755	110.395	-44.488	1.00	45.32	A16S
ATOM	15803	C4*	C	A	756	144.896	110.171	-43.007	1.00	45.32	A16S
ATOM	15804	O4*	C	A	756	143.602	109.805	-42.468	1.00	45.32	A16S
ATOM	15805	C1*	C	A	756	143.760	108.851	-41.426	1.00	45.32	A16S
ATOM	15806	N1	C	A	756	143.053	107.615	-41.818	1.00	53.09	A16S
ATOM	15807	C6	C	A	756	142.581	107.445	-43.091	1.00	53.09	A16S
ATOM	15808	C2	C	A	756	142.883	106.609	-40.866	1.00	53.09	A16S
ATOM	15809	O2	C	A	756	143.297	106.804	-39.716	1.00	53.09	A16S
ATOM	15810	N3	C	A	756	142.272	105.452	-41.222	1.00	53.09	A16S
ATOM	15811	C4	C	A	756	141.837	105.284	-42.478	1.00	53.09	A16S
ATOM	15812	N4	C	A	756	141.272	104.105	-42.806	1.00	53.09	A16S
ATOM	15813	C5	C	A	756	141.972	106.309	-43.462	1.00	53.09	A16S
ATOM	15814	C2*	C	A	756	145.262	108.637	-41.233	1.00	45.32	A16S
ATOM	15815	O2*	C	A	756	145.757	109.496	-40.223	1.00	45.32	A16S
ATOM	15816	C3*	C	A	756	145.792	109.016	-42.604	1.00	45.32	A16S
ATOM	15817	O3*	C	A	756	147.150	109.375	-42.570	1.00	45.32	A16S
ATOM	15818	P	U	A	757	148.250	108.295	-43.021	1.00	39.69	A16S
ATOM	15819	O1P	U	A	757	149.550	109.008	-43.087	1.00	47.55	A16S
ATOM	15820	O2P	U	A	757	147.744	107.576	-44.232	1.00	47.55	A16S
ATOM	15821	O5*	U	A	757	148.267	107.254	-41.808	1.00	39.69	A16S
ATOM	15822	C5*	U	A	757	148.596	107.664	-40.468	1.00	39.69	A16S
ATOM	15823	C4*	U	A	757	148.247	106.568	-39.496	1.00	39.69	A16S
ATOM	15824	O4*	U	A	757	146.820	106.348	-39.533	1.00	39.69	A16S
ATOM	15825	C1*	U	A	757	146.537	104.988	-39.283	1.00	39.69	A16S
ATOM	15826	N1	U	A	757	145.826	104.437	-40.436	1.00	47.55	A16S
ATOM	15827	C6	U	A	757	145.861	105.036	-41.659	1.00	47.55	A16S
ATOM	15828	C2	U	A	757	145.135	103.273	-40.239	1.00	47.55	A16S
ATOM	15829	O2	U	A	757	145.047	102.734	-39.157	1.00	47.55	A16S
ATOM	15830	N3	U	A	757	144.536	102.756	-41.350	1.00	47.55	A16S
ATOM	15831	C4	U	A	757	144.540	103.285	-42.605	1.00	47.55	A16S
ATOM	15832	O4	U	A	757	143.894	102.727	-43.492	1.00	47.55	A16S
ATOM	15833	C5	U	A	757	145.260	104.515	-42.727	1.00	47.55	A16S
ATOM	15834	C2*	U	A	757	147.857	104.261	-39.084	1.00	39.69	A16S
ATOM	15835	O2*	U	A	757	148.091	104.093	-37.704	1.00	39.69	A16S
ATOM	15836	C3*	U	A	757	148.829	105.197	-39.788	1.00	39.69	A16S
ATOM	15837	O3*	U	A	757	150.161	105.053	-39.313	1.00	39.69	A16S
ATOM	15838	P	G	A	758	151.213	104.169	-40.155	1.00	35.81	A16S
ATOM	15839	O1P	G	A	758	152.561	104.320	-39.490	1.00	51.20	A16S
ATOM	15840	O2P	G	A	758	151.060	104.479	-41.617	1.00	51.20	A16S
ATOM	15841	O5*	G	A	758	150.693	102.681	-39.959	1.00	35.81	A16S
ATOM	15842	C5*	G	A	758	150.579	102.121	-38.657	1.00	35.81	A16S
ATOM	15843	C4*	G	A	758	149.695	100.926	-38.718	1.00	35.81	A16S
ATOM	15844	O4*	G	A	758	148.441	101.335	-39.305	1.00	35.81	A16S
ATOM	15845	C1*	G	A	758	147.912	100.290	-40.089	1.00	35.81	A16S
ATOM	15846	N9	G	A	758	147.803	100.750	-41.463	1.00	51.20	A16S
ATOM	15847	C4	G	A	758	146.890	100.322	-42.393	1.00	51.20	A16S
ATOM	15848	N3	G	A	758	145.927	99.392	-42.196	1.00	51.20	A16S
ATOM	15849	C2	G	A	758	145.208	99.186	-43.294	1.00	51.20	A16S
ATOM	15850	N2	G	A	758	144.195	98.302	-43.284	1.00	51.20	A16S
ATOM	15851	N1	G	A	758	145.428	99.836	-44.483	1.00	51.20	A16S
ATOM	15852	C6	G	A	758	146.415	100.793	-44.703	1.00	51.20	A16S
ATOM	15853	O6	G	A	758	146.530	101.319	-45.816	1.00	51.20	A16S
ATOM	15854	C5	G	A	758	147.184	101.025	-43.541	1.00	51.20	A16S
ATOM	15855	N7	G	A	758	148.263	101.875	-43.336	1.00	51.20	A16S



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ATOM	15856	C8	G	A	758	148.594	101.680	-42.088	1.00	51.20	A16S
ATOM	15857	C2*	G	A	758	148.868	99.115	-39.975	1.00	35.81	A16S
ATOM	15858	O2*	G	A	758	148.389	98.339	-38.903	1.00	35.81	A16S
ATOM	15859	C3*	G	A	758	150.172	99.813	-39.622	1.00	35.81	A16S
ATOM	15860	O3*	G	A	758	151.063	98.973	-38.912	1.00	35.81	A16S
ATOM	15861	P	A	A	759	151.559	97.587	-39.570	1.00	41.93	A16S
ATOM	15862	O1P	A	A	759	153.042	97.556	-39.439	1.00	51.46	A16S
ATOM	15863	O2P	A	A	759	150.938	97.391	-40.902	1.00	51.46	A16S
ATOM	15864	O5*	A	A	759	150.953	96.491	-38.589	1.00	41.93	A16S
ATOM	15865	C5*	A	A	759	151.121	96.638	-37.175	1.00	41.93	A16S
ATOM	15866	C4*	A	A	759	150.781	95.361	-36.481	1.00	41.93	A16S
ATOM	15867	O4*	A	A	759	149.348	95.177	-36.427	1.00	41.93	A16S
ATOM	15868	C1*	A	A	759	149.056	93.798	-36.433	1.00	41.93	A16S
ATOM	15869	N9	A	A	759	148.220	93.498	-37.588	1.00	51.46	A16S
ATOM	15870	C4	A	A	759	147.367	92.429	-37.658	1.00	51.46	A16S
ATOM	15871	N3	A	A	759	147.126	91.529	-36.694	1.00	51.46	A16S
ATOM	15872	C2	A	A	759	146.252	90.627	-37.114	1.00	51.46	A16S
ATOM	15873	N1	A	A	759	145.639	90.525	-38.300	1.00	51.46	A16S
ATOM	15874	C6	A	A	759	145.904	91.443	-39.243	1.00	51.46	A16S
ATOM	15875	N6	A	A	759	145.299	91.325	-40.415	1.00	51.46	A16S
ATOM	15876	C5	A	A	759	146.812	92.465	-38.922	1.00	51.46	A16S
ATOM	15877	N7	A	A	759	147.288	93.560	-39.635	1.00	51.46	A16S
ATOM	15878	C8	A	A	759	148.116	94.142	-38.798	1.00	51.46	A16S
ATOM	15879	C2*	A	A	759	150.381	93.049	-36.531	1.00	41.93	A16S
ATOM	15880	O2*	A	A	759	150.833	92.705	-35.236	1.00	41.93	A16S
ATOM	15881	C3*	A	A	759	151.278	94.103	-37.149	1.00	41.93	A16S
ATOM	15882	O3*	A	A	759	152.634	93.847	-36.875	1.00	41.93	A16S
ATOM	15883	P	G	A	760	153.595	93.364	-38.062	1.00	56.58	A16S
ATOM	15884	O1P	G	A	760	154.713	92.685	-37.366	1.00	60.44	A16S
ATOM	15885	O2P	G	A	760	153.872	94.507	-38.981	1.00	60.44	A16S
ATOM	15886	O5*	G	A	760	152.742	92.277	-38.864	1.00	56.58	A16S
ATOM	15887	C5*	G	A	760	152.518	90.983	-38.294	1.00	56.58	A16S
ATOM	15888	C4*	G	A	760	151.698	90.084	-39.210	1.00	56.58	A16S
ATOM	15889	O4*	G	A	760	150.357	90.602	-39.416	1.00	56.58	A16S
ATOM	15890	C1*	G	A	760	149.814	90.019	-40.589	1.00	56.58	A16S
ATOM	15891	N9	G	A	760	149.486	91.061	-41.545	1.00	60.44	A16S
ATOM	15892	C4	G	A	760	148.579	90.939	-42.547	1.00	60.44	A16S
ATOM	15893	N3	G	A	760	147.781	89.878	-42.751	1.00	60.44	A16S
ATOM	15894	C2	G	A	760	147.026	90.035	-43.816	1.00	60.44	A16S
ATOM	15895	N2	G	A	760	146.144	89.079	-44.157	1.00	60.44	A16S
ATOM	15896	N1	G	A	760	147.073	91.144	-44.630	1.00	60.44	A16S
ATOM	15897	C6	G	A	760	147.902	92.245	-44.436	1.00	60.44	A16S
ATOM	15898	O6	G	A	760	147.882	93.187	-45.236	1.00	60.44	A16S
ATOM	15899	C5	G	A	760	148.691	92.095	-43.285	1.00	60.44	A16S
ATOM	15900	N7	G	A	760	149.621	92.950	-42.721	1.00	60.44	A16S
ATOM	15901	C8	G	A	760	150.059	92.299	-41.681	1.00	60.44	A16S
ATOM	15902	C2*	G	A	760	150.910	89.175	-41.240	1.00	56.58	A16S
ATOM	15903	O2*	G	A	760	150.738	87.798	-40.953	1.00	56.58	A16S
ATOM	15904	C3*	G	A	760	152.167	89.769	-40.622	1.00	56.58	A16S
ATOM	15905	O3*	G	A	760	153.193	88.808	-40.705	1.00	56.58	A16S
ATOM	15906	P	G	A	761	154.158	88.818	-41.979	1.00	59.25	A16S
ATOM	15907	O1P	G	A	761	154.774	87.470	-42.066	1.00	66.75	A16S
ATOM	15908	O2P	G	A	761	155.018	90.021	-41.885	1.00	66.75	A16S
ATOM	15909	O5*	G	A	761	153.194	89.007	-43.229	1.00	59.25	A16S
ATOM	15910	C5*	G	A	761	152.425	87.911	-43.732	1.00	59.25	A16S
ATOM	15911	C4*	G	A	761	151.858	88.250	-45.090	1.00	59.25	A16S
ATOM	15912	O4*	G	A	761	151.004	89.414	-44.985	1.00	59.25	A16S
ATOM	15913	C1*	G	A	761	151.112	90.194	-46.162	1.00	59.25	A16S
ATOM	15914	N9	G	A	761	151.588	91.517	-45.782	1.00	66.75	A16S
ATOM	15915	C4	G	A	761	151.578	92.642	-46.561	1.00	66.75	A16S
ATOM	15916	N3	G	A	761	151.112	92.726	-47.823	1.00	66.75	A16S
ATOM	15917	C2	G	A	761	151.257	93.940	-48.315	1.00	66.75	A16S
ATOM	15918	N2	G	A	761	150.847	94.204	-49.562	1.00	66.75	A16S
ATOM	15919	N1	G	A	761	151.820	94.985	-47.620	1.00	66.75	A16S
ATOM	15920	C6	G	A	761	152.316	94.912	-46.323	1.00	66.75	A16S
ATOM	15921	O6	G	A	761	152.829	95.902	-45.795	1.00	66.75	A16S
ATOM	15922	C5	G	A	761	152.156	93.628	-45.785	1.00	66.75	A16S
ATOM	15923	N7	G	A	761	152.507	93.135	-44.539	1.00	66.75	A16S
ATOM	15924	C8	G	A	761	152.150	91.881	-44.581	1.00	66.75	A16S
ATOM	15925	C2*	G	A	761	152.052	89.469	-47.125	1.00	59.25	A16S
ATOM	15926	O2*	G	A	761	151.297	88.688	-48.029	1.00	59.25	A16S
ATOM	15927	C3*	G	A	761	152.864	88.603	-46.171	1.00	59.25	A16S
ATOM	15928	O3*	G	A	761	153.337	87.440	-46.828	1.00	59.25	A16S
ATOM	15929	P	C	A	762	154.814	87.441	-47.446	1.00	56.70	A16S
ATOM	15930	O1P	C	A	762	155.079	86.120	-48.089	1.00	65.07	A16S
ATOM	15931	O2P	C	A	762	155.711	87.924	-46.352	1.00	65.07	A16S
ATOM	15932	O5*	C	A	762	154.737	88.535	-48.600	1.00	56.70	A16S



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ATOM	15933	C5*	C	A	762	154.033	88.263	-49.811	1.00	56.70	A16S
ATOM	15934	C4*	C	A	762	154.001	89.496	-50.670	1.00	56.70	A16S
ATOM	15935	O4*	C	A	762	153.280	90.537	-49.967	1.00	56.70	A16S
ATOM	15936	C1*	C	A	762	153.867	91.796	-50.243	1.00	56.70	A16S
ATOM	15937	N1	C	A	762	154.390	92.361	-48.987	1.00	65.07	A16S
ATOM	15938	C6	C	A	762	154.511	91.591	-47.865	1.00	65.07	A16S
ATOM	15939	C2	C	A	762	154.784	93.712	-48.964	1.00	65.07	A16S
ATOM	15940	O2	C	A	762	154.665	94.398	-50.001	1.00	65.07	A16S
ATOM	15941	N3	C	A	762	155.286	94.232	-47.822	1.00	65.07	A16S
ATOM	15942	C4	C	A	762	155.398	93.468	-46.737	1.00	65.07	A16S
ATOM	15943	N4	C	A	762	155.883	94.027	-45.627	1.00	65.07	A16S
ATOM	15944	C5	C	A	762	155.009	92.097	-46.734	1.00	65.07	A16S
ATOM	15945	C2*	C	A	762	155.003	91.570	-51.236	1.00	56.70	A16S
ATOM	15946	O2*	C	A	762	154.528	91.802	-52.541	1.00	56.70	A16S
ATOM	15947	C3*	C	A	762	155.352	90.118	-50.962	1.00	56.70	A16S
ATOM	15948	O3*	C	A	762	156.019	89.510	-52.045	1.00	56.70	A16S
ATOM	15949	P	G	A	763	157.627	89.494	-52.060	1.00	60.08	A16S
ATOM	15950	O1P	G	A	763	158.016	88.619	-53.205	1.00	48.80	A16S
ATOM	15951	O2P	G	A	763	158.124	89.175	-50.688	1.00	48.80	A16S
ATOM	15952	O5*	G	A	763	158.025	91.005	-52.383	1.00	60.08	A16S
ATOM	15953	C5*	G	A	763	157.711	91.562	-53.658	1.00	60.08	A16S
ATOM	15954	C4*	G	A	763	157.902	93.050	-53.652	1.00	60.08	A16S
ATOM	15955	O4*	G	A	763	157.083	93.647	-52.620	1.00	60.08	A16S
ATOM	15956	C1*	G	A	763	157.706	94.832	-52.149	1.00	60.08	A16S
ATOM	15957	N9	G	A	763	157.953	94.692	-50.718	1.00	48.80	A16S
ATOM	15958	C4	G	A	763	158.465	95.655	-49.887	1.00	48.80	A16S
ATOM	15959	N3	G	A	763	158.824	96.899	-50.253	1.00	48.80	A16S
ATOM	15960	C2	G	A	763	159.274	97.603	-49.233	1.00	48.80	A16S
ATOM	15961	N2	G	A	763	159.650	98.871	-49.428	1.00	48.80	A16S
ATOM	15962	N1	G	A	763	159.381	97.116	-47.950	1.00	48.80	A16S
ATOM	15963	C6	G	A	763	159.023	95.827	-47.553	1.00	48.80	A16S
ATOM	15964	O6	G	A	763	159.165	95.474	-46.365	1.00	48.80	A16S
ATOM	15965	C5	G	A	763	158.524	95.072	-48.641	1.00	48.80	A16S
ATOM	15966	N7	G	A	763	158.057	93.769	-48.685	1.00	48.80	A16S
ATOM	15967	C8	G	A	763	157.733	93.586	-49.936	1.00	48.80	A16S
ATOM	15968	C2*	G	A	763	159.013	94.999	-52.920	1.00	60.08	A16S
ATOM	15969	O2*	G	A	763	158.822	95.864	-54.028	1.00	60.08	A16S
ATOM	15970	C3*	G	A	763	159.289	93.569	-53.346	1.00	60.08	A16S
ATOM	15971	O3*	G	A	763	160.133	93.542	-54.465	1.00	60.08	A16S
ATOM	15972	P	C	A	764	161.689	93.221	-54.253	1.00	47.26	A16S
ATOM	15973	O1P	C	A	764	162.251	92.965	-55.605	1.00	47.62	A16S
ATOM	15974	O2P	C	A	764	161.798	92.174	-53.191	1.00	47.62	A16S
ATOM	15975	O5*	C	A	764	162.309	94.589	-53.727	1.00	47.26	A16S
ATOM	15976	C5*	C	A	764	162.280	95.742	-54.563	1.00	47.26	A16S
ATOM	15977	C4*	C	A	764	162.567	96.988	-53.767	1.00	47.26	A16S
ATOM	15978	O4*	C	A	764	161.606	97.135	-52.697	1.00	47.26	A16S
ATOM	15979	C1*	C	A	764	162.215	97.785	-51.601	1.00	47.26	A16S
ATOM	15980	N1	C	A	764	162.183	96.877	-50.436	1.00	47.62	A16S
ATOM	15981	C6	C	A	764	161.869	95.556	-50.582	1.00	47.62	A16S
ATOM	15982	C2	C	A	764	162.483	97.392	-49.159	1.00	47.62	A16S
ATOM	15983	O2	C	A	764	162.746	98.599	-49.038	1.00	47.62	A16S
ATOM	15984	N3	C	A	764	162.472	96.562	-48.089	1.00	47.62	A16S
ATOM	15985	C4	C	A	764	162.171	95.278	-48.248	1.00	47.62	A16S
ATOM	15986	N4	C	A	764	162.181	94.505	-47.172	1.00	47.62	A16S
ATOM	15987	C5	C	A	764	161.848	94.731	-49.523	1.00	47.62	A16S
ATOM	15988	C2*	C	A	764	163.634	98.139	-52.032	1.00	47.26	A16S
ATOM	15989	O2*	C	A	764	163.619	99.385	-52.703	1.00	47.26	A16S
ATOM	15990	C3*	C	A	764	163.902	97.072	-53.062	1.00	47.26	A16S
ATOM	15991	O3*	C	A	764	164.918	97.506	-53.928	1.00	47.26	A16S
ATOM	15992	P	G	A	765	166.358	96.821	-53.830	1.00	51.17	A16S
ATOM	15993	O1P	G	A	765	167.176	97.416	-54.911	1.00	43.82	A16S
ATOM	15994	O2P	G	A	765	166.151	95.356	-53.800	1.00	43.82	A16S
ATOM	15995	O5*	G	A	765	166.909	97.276	-52.404	1.00	51.17	A16S
ATOM	15996	C5*	G	A	765	167.195	98.655	-52.121	1.00	51.17	A16S
ATOM	15997	C4*	G	A	765	167.395	98.844	-50.637	1.00	51.17	A16S
ATOM	15998	O4*	G	A	765	166.175	98.481	-49.943	1.00	51.17	A16S
ATOM	15999	C1*	G	A	765	166.486	97.845	-48.714	1.00	51.17	A16S
ATOM	16000	N9	G	A	765	165.978	96.482	-48.784	1.00	43.82	A16S
ATOM	16001	C4	G	A	765	165.867	95.596	-47.752	1.00	43.82	A16S
ATOM	16002	N3	G	A	765	166.173	95.840	-46.469	1.00	43.82	A16S
ATOM	16003	C2	G	A	765	165.957	94.785	-45.702	1.00	43.82	A16S
ATOM	16004	N2	G	A	765	166.160	94.872	-44.379	1.00	43.82	A16S
ATOM	16005	N1	G	A	765	165.508	93.577	-46.170	1.00	43.82	A16S
ATOM	16006	C6	G	A	765	165.178	93.309	-47.491	1.00	43.82	A16S
ATOM	16007	O6	G	A	765	164.746	92.194	-47.808	1.00	43.82	A16S
ATOM	16008	C5	G	A	765	165.388	94.435	-48.315	1.00	43.82	A16S
ATOM	16009	N7	G	A	765	165.184	94.596	-49.675	1.00	43.82	A16S



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ATOM	16010	C8	G	A	765	165.541	95.827	-49.907	1.00	43.82	A16S
ATOM	16011	C2*	G	A	765	168.003	97.890	-48.546	1.00	51.17	A16S
ATOM	16012	O2*	G	A	765	168.337	99.049	-47.797	1.00	51.17	A16S
ATOM	16013	C3*	G	A	765	168.465	97.973	-49.997	1.00	51.17	A16S
ATOM	16014	O3*	G	A	765	169.729	98.593	-50.110	1.00	51.17	A16S
ATOM	16015	P	A	A	766	170.851	97.940	-51.048	1.00	50.87	A16S
ATOM	16016	O1P	A	A	766	170.485	98.314	-52.446	1.00	29.92	A16S
ATOM	16017	O2P	A	A	766	171.032	96.502	-50.676	1.00	29.92	A16S
ATOM	16018	O5*	A	A	766	172.170	98.726	-50.630	1.00	50.87	A16S
ATOM	16019	C5*	A	A	766	172.262	100.135	-50.849	1.00	50.87	A16S
ATOM	16020	C4*	A	A	766	173.413	100.730	-50.076	1.00	50.87	A16S
ATOM	16021	O4*	A	A	766	173.124	100.818	-48.659	1.00	50.87	A16S
ATOM	16022	C1*	A	A	766	174.343	100.843	-47.946	1.00	50.87	A16S
ATOM	16023	N9	A	A	766	174.362	99.816	-46.905	1.00	29.92	A16S
ATOM	16024	C4	A	A	766	175.379	99.753	-45.988	1.00	29.92	A16S
ATOM	16025	N3	A	A	766	176.439	100.579	-45.910	1.00	29.92	A16S
ATOM	16026	C2	A	A	766	177.233	100.218	-44.897	1.00	29.92	A16S
ATOM	16027	N1	A	A	766	177.097	99.190	-44.030	1.00	29.92	A16S
ATOM	16028	C6	A	A	766	176.021	98.378	-44.150	1.00	29.92	A16S
ATOM	16029	N6	A	A	766	175.914	97.351	-43.313	1.00	29.92	A16S
ATOM	16030	C5	A	A	766	175.092	98.667	-45.170	1.00	29.92	A16S
ATOM	16031	N7	A	A	766	173.906	98.064	-45.558	1.00	29.92	A16S
ATOM	16032	C8	A	A	766	173.512	98.779	-46.593	1.00	29.92	A16S
ATOM	16033	C2*	A	A	766	175.470	100.618	-48.945	1.00	50.87	A16S
ATOM	16034	O2*	A	A	766	176.001	101.884	-49.280	1.00	50.87	A16S
ATOM	16035	C3*	A	A	766	174.724	99.978	-50.104	1.00	50.87	A16S
ATOM	16036	O3*	A	A	766	175.405	100.119	-51.329	1.00	50.87	A16S
ATOM	16037	P	A	A	767	176.162	98.841	-51.954	1.00	49.57	A16S
ATOM	16038	O1P	A	A	767	176.810	99.372	-53.181	1.00	41.35	A16S
ATOM	16039	O2P	A	A	767	175.272	97.651	-52.053	1.00	41.35	A16S
ATOM	16040	O5*	A	A	767	177.242	98.471	-50.845	1.00	49.57	A16S
ATOM	16041	C5*	A	A	767	178.240	99.416	-50.466	1.00	49.57	A16S
ATOM	16042	C4*	A	A	767	179.074	98.864	-49.348	1.00	49.57	A16S
ATOM	16043	O4*	A	A	767	178.329	98.879	-48.111	1.00	49.57	A16S
ATOM	16044	C1*	A	A	767	178.720	97.775	-47.312	1.00	49.57	A16S
ATOM	16045	N9	A	A	767	177.547	96.928	-47.119	1.00	41.35	A16S
ATOM	16046	C4	A	A	767	177.353	95.972	-46.150	1.00	41.35	A16S
ATOM	16047	N3	A	A	767	178.178	95.653	-45.142	1.00	41.35	A16S
ATOM	16048	C2	A	A	767	177.669	94.651	-44.421	1.00	41.35	A16S
ATOM	16049	N1	A	A	767	176.521	93.985	-44.593	1.00	41.35	A16S
ATOM	16050	C6	A	A	767	175.728	94.331	-45.624	1.00	41.35	A16S
ATOM	16051	N6	A	A	767	174.609	93.649	-45.813	1.00	41.35	A16S
ATOM	16052	C5	A	A	767	176.142	95.381	-46.442	1.00	41.35	A16S
ATOM	16053	N7	A	A	767	175.565	95.978	-47.546	1.00	41.35	A16S
ATOM	16054	C8	A	A	767	176.429	96.893	-47.904	1.00	41.35	A16S
ATOM	16055	C2*	A	A	767	179.806	97.018	-48.080	1.00	49.57	A16S
ATOM	16056	O2*	A	A	767	181.094	97.463	-47.712	1.00	49.57	A16S
ATOM	16057	C3*	A	A	767	179.513	97.426	-49.507	1.00	49.57	A16S
ATOM	16058	O3*	A	A	767	180.676	97.334	-50.281	1.00	49.57	A16S
ATOM	16059	P	A	A	768	181.028	95.953	-51.001	1.00	42.79	A16S
ATOM	16060	O1P	A	A	768	182.361	96.172	-51.607	1.00	44.09	A16S
ATOM	16061	O2P	A	A	768	179.889	95.515	-51.863	1.00	44.09	A16S
ATOM	16062	O5*	A	A	768	181.199	94.940	-49.788	1.00	42.79	A16S
ATOM	16063	C5*	A	A	768	182.306	95.082	-48.895	1.00	42.79	A16S
ATOM	16064	C4*	A	A	768	182.225	94.057	-47.809	1.00	42.79	A16S
ATOM	16065	O4*	A	A	768	181.013	94.290	-47.075	1.00	42.79	A16S
ATOM	16066	C1*	A	A	768	180.443	93.063	-46.684	1.00	42.79	A16S
ATOM	16067	N9	A	A	768	179.136	92.981	-47.328	1.00	44.09	A16S
ATOM	16068	C4	A	A	768	178.120	92.120	-47.013	1.00	44.09	A16S
ATOM	16069	N3	A	A	768	178.122	91.187	-46.058	1.00	44.09	A16S
ATOM	16070	C2	A	A	768	176.967	90.527	-46.055	1.00	44.09	A16S
ATOM	16071	N1	A	A	768	175.899	90.681	-46.844	1.00	44.09	A16S
ATOM	16072	C6	A	A	768	175.939	91.624	-47.804	1.00	44.09	A16S
ATOM	16073	N6	A	A	768	174.887	91.760	-48.616	1.00	44.09	A16S
ATOM	16074	C5	A	A	768	177.096	92.402	-47.901	1.00	44.09	A16S
ATOM	16075	N7	A	A	768	177.452	93.440	-48.755	1.00	44.09	A16S
ATOM	16076	C8	A	A	768	178.669	93.748	-48.378	1.00	44.09	A16S
ATOM	16077	C2*	A	A	768	181.403	91.951	-47.113	1.00	42.79	A16S
ATOM	16078	O2*	A	A	768	182.289	91.634	-46.049	1.00	42.79	A16S
ATOM	16079	C3*	A	A	768	182.141	92.612	-48.264	1.00	42.79	A16S
ATOM	16080	O3*	A	A	768	183.444	92.058	-48.414	1.00	42.79	A16S
ATOM	16081	P	G	A	769	183.703	90.910	-49.506	1.00	43.25	A16S
ATOM	16082	O1P	G	A	769	185.026	90.344	-49.176	1.00	34.74	A16S
ATOM	16083	O2P	G	A	769	183.471	91.462	-50.866	1.00	34.74	A16S
ATOM	16084	O5*	G	A	769	182.592	89.817	-49.167	1.00	43.25	A16S
ATOM	16085	C5*	G	A	769	182.655	89.114	-47.925	1.00	43.25	A16S
ATOM	16086	C4*	G	A	769	181.443	88.234	-47.725	1.00	43.25	A16S



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ATOM	16087	O4*	G	A	769	180.237	89.022	-47.553	1.00	43.25	A16S
ATOM	16088	C1*	G	A	769	179.113	88.252	-47.948	1.00	43.25	A16S
ATOM	16089	N9	G	A	769	178.419	88.927	-49.041	1.00	34.74	A16S
ATOM	16090	C4	G	A	769	177.267	88.492	-49.654	1.00	34.74	A16S
ATOM	16091	N3	G	A	769	176.601	87.357	-49.364	1.00	34.74	A16S
ATOM	16092	C2	G	A	769	175.489	87.239	-50.073	1.00	34.74	A16S
ATOM	16093	N2	G	A	769	174.685	86.182	-49.862	1.00	34.74	A16S
ATOM	16094	N1	G	A	769	175.086	88.151	-51.024	1.00	34.74	A16S
ATOM	16095	C6	G	A	769	175.779	89.316	-51.351	1.00	34.74	A16S
ATOM	16096	O6	G	A	769	175.349	90.070	-52.232	1.00	34.74	A16S
ATOM	16097	C5	G	A	769	176.949	89.465	-50.573	1.00	34.74	A16S
ATOM	16098	N7	G	A	769	177.895	90.482	-50.563	1.00	34.74	A16S
ATOM	16099	C8	G	A	769	178.754	90.115	-49.647	1.00	34.74	A16S
ATOM	16100	C2*	G	A	769	179.642	86.901	-48.393	1.00	43.25	A16S
ATOM	16101	O2*	G	A	769	179.663	86.106	-47.233	1.00	43.25	A16S
ATOM	16102	C3*	G	A	769	181.054	87.259	-48.813	1.00	43.25	A16S
ATOM	16103	O3*	G	A	769	181.875	86.124	-48.845	1.00	43.25	A16S
ATOM	16104	P	C	A	770	182.262	85.490	-50.268	1.00	50.17	A16S
ATOM	16105	O1P	C	A	770	183.478	84.636	-50.050	1.00	42.31	A16S
ATOM	16106	O2P	C	A	770	182.299	86.585	-51.267	1.00	42.31	A16S
ATOM	16107	O5*	C	A	770	181.003	84.586	-50.625	1.00	50.17	A16S
ATOM	16108	C5*	C	A	770	180.559	83.605	-49.702	1.00	50.17	A16S
ATOM	16109	C4*	C	A	770	179.254	83.019	-50.143	1.00	50.17	A16S
ATOM	16110	O4*	C	A	770	178.205	84.011	-50.093	1.00	50.17	A16S
ATOM	16111	C1*	C	A	770	177.211	83.685	-51.045	1.00	50.17	A16S
ATOM	16112	N1	C	A	770	177.018	84.811	-51.961	1.00	42.31	A16S
ATOM	16113	C6	C	A	770	177.917	85.836	-52.058	1.00	42.31	A16S
ATOM	16114	C2	C	A	770	175.876	84.801	-52.749	1.00	42.31	A16S
ATOM	16115	O2	C	A	770	175.071	83.851	-52.621	1.00	42.31	A16S
ATOM	16116	N3	C	A	770	175.666	85.810	-53.623	1.00	42.31	A16S
ATOM	16117	C4	C	A	770	176.542	86.802	-53.711	1.00	42.31	A16S
ATOM	16118	N4	C	A	770	176.281	87.769	-54.574	1.00	42.31	A16S
ATOM	16119	C5	C	A	770	177.718	86.843	-52.913	1.00	42.31	A16S
ATOM	16120	C2*	C	A	770	177.685	82.460	-51.814	1.00	50.17	A16S
ATOM	16121	O2*	C	A	770	177.111	81.307	-51.245	1.00	50.17	A16S
ATOM	16122	C3*	C	A	770	179.179	82.523	-51.567	1.00	50.17	A16S
ATOM	16123	O3*	C	A	770	179.770	81.268	-51.730	1.00	50.17	A16S
ATOM	16124	P	G	A	771	180.353	80.883	-53.162	1.00	60.35	A16S
ATOM	16125	O1P	G	A	771	181.073	79.587	-52.936	1.00	48.57	A16S
ATOM	16126	O2P	G	A	771	181.079	82.054	-53.727	1.00	48.57	A16S
ATOM	16127	O5*	G	A	771	179.043	80.681	-54.040	1.00	60.35	A16S
ATOM	16128	C5*	G	A	771	178.240	79.505	-53.882	1.00	60.35	A16S
ATOM	16129	C4*	G	A	771	177.317	79.355	-55.055	1.00	60.35	A16S
ATOM	16130	O4*	G	A	771	176.343	80.426	-55.022	1.00	60.35	A16S
ATOM	16131	C1*	G	A	771	175.996	80.787	-56.347	1.00	60.35	A16S
ATOM	16132	N9	G	A	771	176.259	82.207	-56.549	1.00	48.57	A16S
ATOM	16133	C4	G	A	771	175.591	82.993	-57.432	1.00	48.57	A16S
ATOM	16134	N3	G	A	771	174.574	82.592	-58.210	1.00	48.57	A16S
ATOM	16135	C2	G	A	771	174.144	83.559	-58.984	1.00	48.57	A16S
ATOM	16136	N2	G	A	771	173.113	83.334	-59.800	1.00	48.57	A16S
ATOM	16137	N1	G	A	771	174.683	84.821	-59.010	1.00	48.57	A16S
ATOM	16138	C6	G	A	771	175.729	85.259	-58.209	1.00	48.57	A16S
ATOM	16139	O6	G	A	771	176.135	86.422	-58.306	1.00	48.57	A16S
ATOM	16140	C5	G	A	771	176.192	84.231	-57.358	1.00	48.57	A16S
ATOM	16141	N7	G	A	771	177.208	84.232	-56.411	1.00	48.57	A16S
ATOM	16142	C8	G	A	771	177.211	83.007	-55.952	1.00	48.57	A16S
ATOM	16143	C2*	G	A	771	176.821	79.934	-57.311	1.00	60.35	A16S
ATOM	16144	O2*	G	A	771	176.063	78.854	-57.813	1.00	60.35	A16S
ATOM	16145	C3*	G	A	771	177.972	79.502	-56.417	1.00	60.35	A16S
ATOM	16146	O3*	G	A	771	178.590	78.324	-56.886	1.00	60.35	A16S
ATOM	16147	P	U	A	772	179.768	78.448	-57.967	1.00	59.80	A16S
ATOM	16148	O1P	U	A	772	180.342	77.085	-58.060	1.00	67.90	A16S
ATOM	16149	O2P	U	A	772	180.637	79.586	-57.593	1.00	67.90	A16S
ATOM	16150	O5*	U	A	772	179.021	78.843	-59.321	1.00	59.80	A16S
ATOM	16151	C5*	U	A	772	178.114	77.919	-59.944	1.00	59.80	A16S
ATOM	16152	C4*	U	A	772	177.513	78.514	-61.195	1.00	59.80	A16S
ATOM	16153	O4*	U	A	772	176.573	79.560	-60.838	1.00	59.80	A16S
ATOM	16154	C1*	U	A	772	176.592	80.568	-61.835	1.00	59.80	A16S
ATOM	16155	N1	U	A	772	177.070	81.813	-61.223	1.00	67.90	A16S
ATOM	16156	C6	U	A	772	177.835	81.792	-60.088	1.00	67.90	A16S
ATOM	16157	C2	U	A	772	176.752	83.006	-61.846	1.00	67.90	A16S
ATOM	16158	O2	U	A	772	176.041	83.078	-62.830	1.00	67.90	A16S
ATOM	16159	N3	U	A	772	177.299	84.117	-61.275	1.00	67.90	A16S
ATOM	16160	C4	U	A	772	178.100	84.165	-60.169	1.00	67.90	A16S
ATOM	16161	O4	U	A	772	178.597	85.241	-59.834	1.00	67.90	A16S
ATOM	16162	C5	U	A	772	178.348	82.894	-59.555	1.00	67.90	A16S
ATOM	16163	C2*	U	A	772	177.563	80.126	-62.936	1.00	59.80	A16S



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ATOM	16164	O2*	U	A	772	176.872	79.494	-64.000	1.00	59.80	A16S
ATOM	16165	C3*	U	A	772	178.475	79.181	-62.170	1.00	59.80	A16S
ATOM	16166	O3*	U	A	772	179.157	78.275	-63.029	1.00	59.80	A16S
ATOM	16167	P	G	A	773	180.696	78.558	-63.403	1.00	66.63	A16S
ATOM	16168	O1P	G	A	773	181.218	77.348	-64.076	1.00	69.19	A16S
ATOM	16169	O2P	G	A	773	181.393	79.083	-62.197	1.00	69.19	A16S
ATOM	16170	O5*	G	A	773	180.617	79.742	-64.466	1.00	66.63	A16S
ATOM	16171	C5*	G	A	773	179.924	79.547	-65.698	1.00	66.63	A16S
ATOM	16172	C4*	G	A	773	179.605	80.865	-66.357	1.00	66.63	A16S
ATOM	16173	O4*	G	A	773	178.694	81.642	-65.533	1.00	66.63	A16S
ATOM	16174	C1*	G	A	773	178.808	83.012	-65.885	1.00	66.63	A16S
ATOM	16175	N9	G	A	773	179.110	83.816	-64.703	1.00	69.19	A16S
ATOM	16176	C4	G	A	773	179.057	85.192	-64.645	1.00	69.19	A16S
ATOM	16177	N3	G	A	773	178.612	86.009	-65.623	1.00	69.19	A16S
ATOM	16178	C2	G	A	773	178.750	87.281	-65.306	1.00	69.19	A16S
ATOM	16179	N2	G	A	773	178.346	88.229	-66.163	1.00	69.19	A16S
ATOM	16180	N1	G	A	773	179.292	87.719	-64.131	1.00	69.19	A16S
ATOM	16181	C6	G	A	773	179.757	86.901	-63.112	1.00	69.19	A16S
ATOM	16182	O6	G	A	773	180.247	87.406	-62.105	1.00	69.19	A16S
ATOM	16183	C5	G	A	773	179.595	85.528	-63.426	1.00	69.19	A16S
ATOM	16184	N7	G	A	773	179.908	84.388	-62.693	1.00	69.19	A16S
ATOM	16185	C8	G	A	773	179.583	83.397	-63.483	1.00	69.19	A16S
ATOM	16186	C2*	G	A	773	179.975	83.135	-66.873	1.00	66.63	A16S
ATOM	16187	O2*	G	A	773	179.505	83.245	-68.205	1.00	66.63	A16S
ATOM	16188	C3*	G	A	773	180.738	81.838	-66.631	1.00	66.63	A16S
ATOM	16189	O3*	G	A	773	181.512	81.509	-67.776	1.00	66.63	A16S
ATOM	16190	P	G	A	774	183.008	82.102	-67.928	1.00	71.67	A16S
ATOM	16191	O1P	G	A	774	183.460	81.669	-69.267	1.00	64.00	A16S
ATOM	16192	O2P	G	A	774	183.821	81.753	-66.730	1.00	64.00	A16S
ATOM	16193	O5*	G	A	774	182.822	83.683	-68.002	1.00	71.67	A16S
ATOM	16194	C5*	G	A	774	182.180	84.262	-69.144	1.00	71.67	A16S
ATOM	16195	C4*	G	A	774	182.147	85.769	-69.056	1.00	71.67	A16S
ATOM	16196	O4*	G	A	774	181.305	86.215	-67.964	1.00	71.67	A16S
ATOM	16197	C1*	G	A	774	181.727	87.506	-67.548	1.00	71.67	A16S
ATOM	16198	N9	G	A	774	182.080	87.480	-66.134	1.00	64.00	A16S
ATOM	16199	C4	G	A	774	182.257	88.580	-65.334	1.00	64.00	A16S
ATOM	16200	N3	G	A	774	182.104	89.865	-65.713	1.00	64.00	A16S
ATOM	16201	C2	G	A	774	182.353	90.701	-64.726	1.00	64.00	A16S
ATOM	16202	N2	G	A	774	182.221	92.014	-64.924	1.00	64.00	A16S
ATOM	16203	N1	G	A	774	182.741	90.309	-63.471	1.00	64.00	A16S
ATOM	16204	C6	G	A	774	182.907	88.989	-63.059	1.00	64.00	A16S
ATOM	16205	O6	G	A	774	183.263	88.740	-61.898	1.00	64.00	A16S
ATOM	16206	C5	G	A	774	182.625	88.083	-64.105	1.00	64.00	A16S
ATOM	16207	N7	G	A	774	182.655	86.698	-64.124	1.00	64.00	A16S
ATOM	16208	C8	G	A	774	182.324	86.385	-65.347	1.00	64.00	A16S
ATOM	16209	C2*	G	A	774	182.948	87.879	-68.379	1.00	71.67	A16S
ATOM	16210	O2*	G	A	774	182.528	88.671	-69.471	1.00	71.67	A16S
ATOM	16211	C3*	G	A	774	183.445	86.514	-68.828	1.00	71.67	A16S
ATOM	16212	O3*	G	A	774	184.186	86.668	-70.004	1.00	71.67	A16S
ATOM	16213	P	G	A	775	185.737	87.048	-69.899	1.00	55.62	A16S
ATOM	16214	O1P	G	A	775	186.219	87.209	-71.299	1.00	68.65	A16S
ATOM	16215	O2P	G	A	775	186.392	86.072	-68.995	1.00	68.65	A16S
ATOM	16216	O5*	G	A	775	185.794	88.472	-69.184	1.00	55.62	A16S
ATOM	16217	C5*	G	A	775	185.281	89.650	-69.828	1.00	55.62	A16S
ATOM	16218	C4*	G	A	775	185.385	90.840	-68.903	1.00	55.62	A16S
ATOM	16219	O4*	G	A	775	184.571	90.634	-67.711	1.00	55.62	A16S
ATOM	16220	C1*	G	A	775	185.217	91.209	-66.580	1.00	55.62	A16S
ATOM	16221	N9	G	A	775	185.526	90.142	-65.627	1.00	68.65	A16S
ATOM	16222	C4	G	A	775	185.956	90.288	-64.326	1.00	68.65	A16S
ATOM	16223	N3	G	A	775	186.125	91.453	-63.672	1.00	68.65	A16S
ATOM	16224	C2	G	A	775	186.539	91.263	-62.434	1.00	68.65	A16S
ATOM	16225	N2	G	A	775	186.719	92.305	-61.630	1.00	68.65	A16S
ATOM	16226	N1	G	A	775	186.796	90.035	-61.891	1.00	68.65	A16S
ATOM	16227	C6	G	A	775	186.644	88.823	-62.554	1.00	68.65	A16S
ATOM	16228	O6	G	A	775	186.926	87.760	-61.979	1.00	68.65	A16S
ATOM	16229	C5	G	A	775	186.171	89.008	-63.866	1.00	68.65	A16S
ATOM	16230	N7	G	A	775	185.860	88.075	-64.839	1.00	68.65	A16S
ATOM	16231	C8	G	A	775	185.477	88.789	-65.861	1.00	68.65	A16S
ATOM	16232	C2*	G	A	775	186.482	91.908	-67.090	1.00	55.62	A16S
ATOM	16233	O2*	G	A	775	186.170	93.257	-67.373	1.00	55.62	A16S
ATOM	16234	C3*	G	A	775	186.777	91.128	-68.368	1.00	55.62	A16S
ATOM	16235	O3*	G	A	775	187.539	91.878	-69.305	1.00	55.62	A16S
ATOM	16236	P	G	A	776	189.136	91.683	-69.376	1.00	53.35	A16S
ATOM	16237	O1P	G	A	776	189.446	90.228	-69.332	1.00	66.55	A16S
ATOM	16238	O2P	G	A	776	189.656	92.531	-70.481	1.00	66.55	A16S
ATOM	16239	O5*	G	A	776	189.667	92.306	-68.021	1.00	53.35	A16S
ATOM	16240	C5*	G	A	776	189.292	93.627	-67.645	1.00	53.35	A16S



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ATOM	16241	C4*	G	A	776	189.676	93.875	-66.221	1.00	53.35	A16S
ATOM	16242	O4*	G	A	776	188.953	92.979	-65.346	1.00	53.35	A16S
ATOM	16243	C1*	G	A	776	189.737	92.717	-64.200	1.00	53.35	A16S
ATOM	16244	N9	G	A	776	189.806	91.276	-64.003	1.00	66.55	A16S
ATOM	16245	C4	G	A	776	190.002	90.621	-62.808	1.00	66.55	A16S
ATOM	16246	N3	G	A	776	190.183	91.202	-61.602	1.00	66.55	A16S
ATOM	16247	C2	G	A	776	190.323	90.299	-60.639	1.00	66.55	A16S
ATOM	16248	N2	G	A	776	190.519	90.690	-59.379	1.00	66.55	A16S
ATOM	16249	N1	G	A	776	190.284	88.941	-60.841	1.00	66.55	A16S
ATOM	16250	C6	G	A	776	190.103	88.319	-62.071	1.00	66.55	A16S
ATOM	16251	O6	G	A	776	190.082	87.078	-62.141	1.00	66.55	A16S
ATOM	16252	C5	G	A	776	189.958	89.273	-63.118	1.00	66.55	A16S
ATOM	16253	N7	G	A	776	189.758	89.089	-64.479	1.00	66.55	A16S
ATOM	16254	C8	G	A	776	189.676	90.302	-64.962	1.00	66.55	A16S
ATOM	16255	C2*	G	A	776	191.093	93.395	-64.388	1.00	53.35	A16S
ATOM	16256	O2*	G	A	776	191.077	94.593	-63.635	1.00	53.35	A16S
ATOM	16257	C3*	G	A	776	191.129	93.607	-65.903	1.00	53.35	A16S
ATOM	16258	O3*	G	A	776	191.898	94.725	-66.330	1.00	53.35	A16S
ATOM	16259	P	A	A	777	193.454	94.549	-66.737	1.00	49.35	A16S
ATOM	16260	O1P	A	A	777	193.940	93.252	-66.176	1.00	64.73	A16S
ATOM	16261	O2P	A	A	777	193.619	94.820	-68.209	1.00	64.73	A16S
ATOM	16262	O5*	A	A	777	194.094	95.754	-65.901	1.00	49.35	A16S
ATOM	16263	C5*	A	A	777	194.976	96.704	-66.508	1.00	49.35	A16S
ATOM	16264	C4*	A	A	777	194.751	98.093	-65.948	1.00	49.35	A16S
ATOM	16265	O4*	A	A	777	193.353	98.453	-66.093	1.00	49.35	A16S
ATOM	16266	C1*	A	A	777	193.032	99.459	-65.153	1.00	49.35	A16S
ATOM	16267	N9	A	A	777	191.988	98.974	-64.249	1.00	64.73	A16S
ATOM	16268	C4	A	A	777	191.313	99.757	-63.335	1.00	64.73	A16S
ATOM	16269	N3	A	A	777	191.456	101.079	-63.126	1.00	64.73	A16S
ATOM	16270	C2	A	A	777	190.672	101.485	-62.136	1.00	64.73	A16S
ATOM	16271	N1	A	A	777	189.829	100.778	-61.388	1.00	64.73	A16S
ATOM	16272	C6	A	A	777	189.712	99.453	-61.624	1.00	64.73	A16S
ATOM	16273	N6	A	A	777	188.880	98.739	-60.869	1.00	64.73	A16S
ATOM	16274	C5	A	A	777	190.481	98.900	-62.645	1.00	64.73	A16S
ATOM	16275	N7	A	A	777	190.600	97.602	-63.123	1.00	64.73	A16S
ATOM	16276	C8	A	A	777	191.500	97.699	-64.078	1.00	64.73	A16S
ATOM	16277	C2*	A	A	777	194.292	99.723	-64.340	1.00	49.35	A16S
ATOM	16278	O2*	A	A	777	195.012	100.740	-64.985	1.00	49.35	A16S
ATOM	16279	C3*	A	A	777	195.041	98.414	-64.486	1.00	49.35	A16S
ATOM	16280	O3*	A	A	777	196.422	98.661	-64.194	1.00	49.35	A16S
ATOM	16281	P	G	A	778	196.982	98.445	-62.683	1.00	47.24	A16S
ATOM	16282	O1P	G	A	778	198.417	98.829	-62.659	1.00	42.27	A16S
ATOM	16283	O2P	G	A	778	196.576	97.091	-62.202	1.00	42.27	A16S
ATOM	16284	O5*	G	A	778	196.201	99.520	-61.803	1.00	47.24	A16S
ATOM	16285	C5*	G	A	778	196.497	100.935	-61.898	1.00	47.24	A16S
ATOM	16286	C4*	G	A	778	195.631	101.712	-60.931	1.00	47.24	A16S
ATOM	16287	O4*	G	A	778	194.240	101.533	-61.301	1.00	47.24	A16S
ATOM	16288	C1*	G	A	778	193.451	101.324	-60.146	1.00	47.24	A16S
ATOM	16289	N9	G	A	778	192.988	99.943	-60.178	1.00	42.27	A16S
ATOM	16290	C4	G	A	778	191.968	99.400	-59.440	1.00	42.27	A16S
ATOM	16291	N3	G	A	778	191.209	100.052	-58.541	1.00	42.27	A16S
ATOM	16292	C2	G	A	778	190.314	99.256	-57.982	1.00	42.27	A16S
ATOM	16293	N2	G	A	778	189.488	99.739	-57.058	1.00	42.27	A16S
ATOM	16294	N1	G	A	778	190.161	97.929	-58.282	1.00	42.27	A16S
ATOM	16295	C6	G	A	778	190.916	97.233	-59.205	1.00	42.27	A16S
ATOM	16296	O6	G	A	778	190.680	96.036	-59.402	1.00	42.27	A16S
ATOM	16297	C5	G	A	778	191.903	98.077	-59.816	1.00	42.27	A16S
ATOM	16298	N7	G	A	778	192.865	97.795	-60.775	1.00	42.27	A16S
ATOM	16299	C8	G	A	778	193.483	98.929	-60.953	1.00	42.27	A16S
ATOM	16300	C2*	G	A	778	194.342	101.605	-58.944	1.00	47.24	A16S
ATOM	16301	O2*	G	A	778	194.285	102.986	-58.634	1.00	47.24	A16S
ATOM	16302	C3*	G	A	778	195.700	101.226	-59.496	1.00	47.24	A16S
ATOM	16303	O3*	G	A	778	196.740	101.838	-58.774	1.00	47.24	A16S
ATOM	16304	P	C	A	779	197.304	101.104	-57.468	1.00	45.90	A16S
ATOM	16305	O1P	C	A	779	198.285	102.028	-56.844	1.00	50.70	A16S
ATOM	16306	O2P	C	A	779	197.730	99.711	-57.821	1.00	50.70	A16S
ATOM	16307	O5*	C	A	779	196.010	100.941	-56.537	1.00	45.90	A16S
ATOM	16308	C5*	C	A	779	195.332	102.077	-55.920	1.00	45.90	A16S
ATOM	16309	C4*	C	A	779	194.142	101.593	-55.106	1.00	45.90	A16S
ATOM	16310	O4*	C	A	779	193.253	100.852	-55.978	1.00	45.90	A16S
ATOM	16311	C1*	C	A	779	192.653	99.794	-55.256	1.00	45.90	A16S
ATOM	16312	N1	C	A	779	192.859	98.540	-55.980	1.00	50.70	A16S
ATOM	16313	C6	C	A	779	193.857	98.397	-56.898	1.00	50.70	A16S
ATOM	16314	C2	C	A	779	192.005	97.486	-55.708	1.00	50.70	A16S
ATOM	16315	O2	C	A	779	191.111	97.655	-54.865	1.00	50.70	A16S
ATOM	16316	N3	C	A	779	192.162	96.313	-56.359	1.00	50.70	A16S
ATOM	16317	C4	C	A	779	193.129	96.182	-57.257	1.00	50.70	A16S



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ATOM	16318	N4	C	A	779	193.236	95.018	-57.885	1.00	50.70	A16S
ATOM	16319	C5	C	A	779	194.024	97.242	-57.554	1.00	50.70	A16S
ATOM	16320	C2*	C	A	779	193.226	99.761	-53.843	1.00	45.90	A16S
ATOM	16321	O2*	C	A	779	192.294	100.265	-52.918	1.00	45.90	A16S
ATOM	16322	C3*	C	A	779	194.478	100.609	-53.997	1.00	45.90	A16S
ATOM	16323	O3*	C	A	779	194.795	101.261	-52.787	1.00	45.90	A16S
ATOM	16324	P	A	A	780	195.886	100.600	-51.816	1.00	37.33	A16S
ATOM	16325	O1P	A	A	780	196.036	101.509	-50.642	1.00	71.29	A16S
ATOM	16326	O2P	A	A	780	197.084	100.280	-52.644	1.00	71.29	A16S
ATOM	16327	O5*	A	A	780	195.227	99.211	-51.382	1.00	37.33	A16S
ATOM	16328	C5*	A	A	780	194.133	99.195	-50.479	1.00	37.33	A16S
ATOM	16329	C4*	A	A	780	193.486	97.838	-50.444	1.00	37.33	A16S
ATOM	16330	O4*	A	A	780	193.117	97.468	-51.792	1.00	37.33	A16S
ATOM	16331	C1*	A	A	780	193.167	96.057	-51.917	1.00	37.33	A16S
ATOM	16332	N9	A	A	780	194.017	95.703	-53.061	1.00	71.29	A16S
ATOM	16333	C4	A	A	780	193.874	94.574	-53.828	1.00	71.29	A16S
ATOM	16334	N3	A	A	780	192.951	93.610	-53.691	1.00	71.29	A16S
ATOM	16335	C2	A	A	780	193.127	92.663	-54.594	1.00	71.29	A16S
ATOM	16336	N1	A	A	780	194.048	92.572	-55.550	1.00	71.29	A16S
ATOM	16337	C6	A	A	780	194.959	93.560	-55.663	1.00	71.29	A16S
ATOM	16338	N6	A	A	780	195.880	93.474	-56.620	1.00	71.29	A16S
ATOM	16339	C5	A	A	780	194.884	94.623	-54.764	1.00	71.29	A16S
ATOM	16340	N7	A	A	780	195.653	95.767	-54.604	1.00	71.29	A16S
ATOM	16341	C8	A	A	780	195.098	96.376	-53.587	1.00	71.29	A16S
ATOM	16342	C2*	A	A	780	193.645	95.475	-50.582	1.00	37.33	A16S
ATOM	16343	O2*	A	A	780	192.530	95.054	-49.834	1.00	37.33	A16S
ATOM	16344	C3*	A	A	780	194.313	96.673	-49.927	1.00	37.33	A16S
ATOM	16345	O3*	A	A	780	194.204	96.538	-48.515	1.00	37.33	A16S
ATOM	16346	P	A	A	781	195.307	95.684	-47.714	1.00	45.37	A16S
ATOM	16347	O1P	A	A	781	196.110	96.585	-46.842	1.00	63.32	A16S
ATOM	16348	O2P	A	A	781	195.983	94.838	-48.723	1.00	63.32	A16S
ATOM	16349	O5*	A	A	781	194.497	94.701	-46.769	1.00	45.37	A16S
ATOM	16350	C5*	A	A	781	193.680	93.703	-47.336	1.00	45.37	A16S
ATOM	16351	C4*	A	A	781	192.707	93.200	-46.318	1.00	45.37	A16S
ATOM	16352	O4*	A	A	781	191.542	92.725	-47.027	1.00	45.37	A16S
ATOM	16353	C1*	A	A	781	191.086	91.533	-46.429	1.00	45.37	A16S
ATOM	16354	N9	A	A	781	191.242	90.462	-47.409	1.00	63.32	A16S
ATOM	16355	C4	A	A	781	190.647	89.234	-47.349	1.00	63.32	A16S
ATOM	16356	N3	A	A	781	189.834	88.777	-46.385	1.00	63.32	A16S
ATOM	16357	C2	A	A	781	189.440	87.543	-46.663	1.00	63.32	A16S
ATOM	16358	N1	A	A	781	189.736	86.774	-47.718	1.00	63.32	A16S
ATOM	16359	C6	A	A	781	190.549	87.277	-48.674	1.00	63.32	A16S
ATOM	16360	N6	A	A	781	190.824	86.528	-49.745	1.00	63.32	A16S
ATOM	16361	C5	A	A	781	191.048	88.568	-48.488	1.00	63.32	A16S
ATOM	16362	N7	A	A	781	191.897	89.356	-49.248	1.00	63.32	A16S
ATOM	16363	C8	A	A	781	191.984	90.465	-48.565	1.00	63.32	A16S
ATOM	16364	C2*	A	A	781	191.881	91.323	-45.139	1.00	45.37	A16S
ATOM	16365	O2*	A	A	781	191.166	91.982	-44.123	1.00	45.37	A16S
ATOM	16366	C3*	A	A	781	193.186	92.040	-45.456	1.00	45.37	A16S
ATOM	16367	O3*	A	A	781	193.821	92.499	-44.266	1.00	45.37	A16S
ATOM	16368	P	A	A	782	195.115	91.725	-43.688	1.00	43.65	A16S
ATOM	16369	O1P	A	A	782	194.991	91.630	-42.219	1.00	58.61	A16S
ATOM	16370	O2P	A	A	782	196.329	92.365	-44.271	1.00	58.61	A16S
ATOM	16371	O5*	A	A	782	194.960	90.242	-44.232	1.00	43.65	A16S
ATOM	16372	C5*	A	A	782	193.989	89.363	-43.673	1.00	43.65	A16S
ATOM	16373	C4*	A	A	782	194.026	88.039	-44.382	1.00	43.65	A16S
ATOM	16374	O4*	A	A	782	193.557	88.183	-45.742	1.00	43.65	A16S
ATOM	16375	C1*	A	A	782	194.235	87.269	-46.579	1.00	43.65	A16S
ATOM	16376	N9	A	A	782	194.995	88.022	-47.567	1.00	58.61	A16S
ATOM	16377	C4	A	A	782	195.362	87.585	-48.818	1.00	58.61	A16S
ATOM	16378	N3	A	A	782	195.111	86.387	-49.376	1.00	58.61	A16S
ATOM	16379	C2	A	A	782	195.604	86.336	-50.609	1.00	58.61	A16S
ATOM	16380	N1	A	A	782	196.265	87.271	-51.294	1.00	58.61	A16S
ATOM	16381	C6	A	A	782	196.500	88.457	-50.698	1.00	58.61	A16S
ATOM	16382	N6	A	A	782	197.154	89.398	-51.372	1.00	58.61	A16S
ATOM	16383	C5	A	A	782	196.037	88.638	-49.398	1.00	58.61	A16S
ATOM	16384	N7	A	A	782	196.116	89.712	-48.526	1.00	58.61	A16S
ATOM	16385	C8	A	A	782	195.487	89.296	-47.457	1.00	58.61	A16S
ATOM	16386	C2*	A	A	782	195.168	86.455	-45.699	1.00	43.65	A16S
ATOM	16387	O2*	A	A	782	194.461	85.305	-45.289	1.00	43.65	A16S
ATOM	16388	C3*	A	A	782	195.393	87.403	-44.538	1.00	43.65	A16S
ATOM	16389	O3*	A	A	782	195.756	86.684	-43.382	1.00	43.65	A16S
ATOM	16390	P	C	A	783	197.290	86.648	-42.931	1.00	56.04	A16S
ATOM	16391	O1P	C	A	783	197.426	85.502	-41.971	1.00	52.42	A16S
ATOM	16392	O2P	C	A	783	197.648	88.025	-42.514	1.00	52.42	A16S
ATOM	16393	O5*	C	A	783	198.097	86.338	-44.265	1.00	56.04	A16S
ATOM	16394	C5*	C	A	783	198.048	85.037	-44.842	1.00	56.04	A16S



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ATOM	16395	C4*	C	A	783	198.682	85.050	-46.199	1.00	56.04	A16S
ATOM	16396	O4*	C	A	783	198.051	86.067	-47.009	1.00	56.04	A16S
ATOM	16397	C1*	C	A	783	198.996	86.603	-47.909	1.00	56.04	A16S
ATOM	16398	N1	C	A	783	199.042	88.056	-47.723	1.00	52.42	A16S
ATOM	16399	C6	C	A	783	198.861	88.624	-46.495	1.00	52.42	A16S
ATOM	16400	C2	C	A	783	199.280	88.853	-48.836	1.00	52.42	A16S
ATOM	16401	O2	C	A	783	199.438	88.303	-49.933	1.00	52.42	A16S
ATOM	16402	N3	C	A	783	199.332	90.194	-48.697	1.00	52.42	A16S
ATOM	16403	C4	C	A	783	199.155	90.737	-47.501	1.00	52.42	A16S
ATOM	16404	N4	C	A	783	199.207	92.052	-47.410	1.00	52.42	A16S
ATOM	16405	C5	C	A	783	198.912	89.948	-46.342	1.00	52.42	A16S
ATOM	16406	C2*	C	A	783	200.336	85.911	-47.665	1.00	56.04	A16S
ATOM	16407	O2*	C	A	783	200.480	84.884	-48.630	1.00	56.04	A16S
ATOM	16408	C3*	C	A	783	200.157	85.385	-46.244	1.00	56.04	A16S
ATOM	16409	O3*	C	A	783	200.905	84.206	-46.004	1.00	56.04	A16S
ATOM	16410	P	C	A	784	202.383	84.314	-45.393	1.00	52.48	A16S
ATOM	16411	O1P	C	A	784	202.870	82.918	-45.228	1.00	63.27	A16S
ATOM	16412	O2P	C	A	784	202.352	85.230	-44.220	1.00	63.27	A16S
ATOM	16413	O5*	C	A	784	203.203	85.003	-46.564	1.00	52.48	A16S
ATOM	16414	C5*	C	A	784	203.374	84.316	-47.807	1.00	52.48	A16S
ATOM	16415	C4*	C	A	784	204.320	85.074	-48.686	1.00	52.48	A16S
ATOM	16416	O4*	C	A	784	203.645	86.168	-49.345	1.00	52.48	A16S
ATOM	16417	C1*	C	A	784	204.528	87.265	-49.466	1.00	52.48	A16S
ATOM	16418	N1	C	A	784	203.914	88.419	-48.803	1.00	63.27	A16S
ATOM	16419	C6	C	A	784	203.067	88.250	-47.744	1.00	63.27	A16S
ATOM	16420	C2	C	A	784	204.200	89.700	-49.282	1.00	63.27	A16S
ATOM	16421	O2	C	A	784	204.981	89.821	-50.222	1.00	63.27	A16S
ATOM	16422	N3	C	A	784	203.616	90.770	-48.708	1.00	63.27	A16S
ATOM	16423	C4	C	A	784	202.769	90.594	-47.691	1.00	63.27	A16S
ATOM	16424	N4	C	A	784	202.186	91.672	-47.167	1.00	63.27	A16S
ATOM	16425	C5	C	A	784	202.475	89.298	-47.167	1.00	63.27	A16S
ATOM	16426	C2*	C	A	784	205.866	86.858	-48.856	1.00	52.48	A16S
ATOM	16427	O2*	C	A	784	206.717	86.426	-49.887	1.00	52.48	A16S
ATOM	16428	C3*	C	A	784	205.458	85.717	-47.936	1.00	52.48	A16S
ATOM	16429	O3*	C	A	784	206.483	84.776	-47.725	1.00	52.48	A16S
ATOM	16430	P	G	A	785	207.721	85.170	-46.800	1.00	54.87	A16S
ATOM	16431	O1P	G	A	785	208.757	84.141	-47.074	1.00	69.84	A16S
ATOM	16432	O2P	G	A	785	207.248	85.393	-45.405	1.00	69.84	A16S
ATOM	16433	O5*	G	A	785	208.201	86.552	-47.427	1.00	54.87	A16S
ATOM	16434	C5*	G	A	785	208.900	87.539	-46.654	1.00	54.87	A16S
ATOM	16435	C4*	G	A	785	209.315	88.682	-47.553	1.00	54.87	A16S
ATOM	16436	O4*	G	A	785	208.140	89.226	-48.204	1.00	54.87	A16S
ATOM	16437	C1*	G	A	785	208.298	90.622	-48.395	1.00	54.87	A16S
ATOM	16438	N9	G	A	785	207.248	91.305	-47.650	1.00	69.84	A16S
ATOM	16439	C4	G	A	785	207.107	92.660	-47.509	1.00	69.84	A16S
ATOM	16440	N3	G	A	785	207.866	93.598	-48.109	1.00	69.84	A16S
ATOM	16441	C2	G	A	785	207.536	94.814	-47.730	1.00	69.84	A16S
ATOM	16442	N2	G	A	785	208.184	95.858	-48.244	1.00	69.84	A16S
ATOM	16443	N1	G	A	785	206.548	95.089	-46.820	1.00	69.84	A16S
ATOM	16444	C6	G	A	785	205.765	94.131	-46.178	1.00	69.84	A16S
ATOM	16445	O6	G	A	785	204.928	94.475	-45.323	1.00	69.84	A16S
ATOM	16446	C5	G	A	785	206.089	92.828	-46.607	1.00	69.84	A16S
ATOM	16447	N7	G	A	785	205.547	91.605	-46.244	1.00	69.84	A16S
ATOM	16448	C8	G	A	785	206.257	90.732	-46.898	1.00	69.84	A16S
ATOM	16449	C2*	G	A	785	209.681	91.007	-47.861	1.00	54.87	A16S
ATOM	16450	O2*	G	A	785	210.619	91.088	-48.914	1.00	54.87	A16S
ATOM	16451	C3*	G	A	785	209.957	89.878	-46.881	1.00	54.87	A16S
ATOM	16452	O3*	G	A	785	211.338	89.691	-46.658	1.00	54.87	A16S
ATOM	16453	P	G	A	786	212.006	90.311	-45.337	1.00	54.29	A16S
ATOM	16454	O1P	G	A	786	213.416	89.844	-45.301	1.00	58.79	A16S
ATOM	16455	O2P	G	A	786	211.120	89.997	-44.190	1.00	58.79	A16S
ATOM	16456	O5*	G	A	786	212.005	91.878	-45.643	1.00	54.29	A16S
ATOM	16457	C5*	G	A	786	212.778	92.377	-46.731	1.00	54.29	A16S
ATOM	16458	C4*	G	A	786	212.783	93.874	-46.742	1.00	54.29	A16S
ATOM	16459	O4*	G	A	786	211.472	94.351	-47.131	1.00	54.29	A16S
ATOM	16460	C1*	G	A	786	211.189	95.567	-46.451	1.00	54.29	A16S
ATOM	16461	N9	G	A	786	210.073	95.330	-45.537	1.00	58.79	A16S
ATOM	16462	C4	G	A	786	209.370	96.276	-44.829	1.00	58.79	A16S
ATOM	16463	N3	G	A	786	209.586	97.606	-44.852	1.00	58.79	A16S
ATOM	16464	C2	G	A	786	208.738	98.257	-44.077	1.00	58.79	A16S
ATOM	16465	N2	G	A	786	208.804	99.590	-43.997	1.00	58.79	A16S
ATOM	16466	N1	G	A	786	207.762	97.646	-43.333	1.00	58.79	A16S
ATOM	16467	C6	G	A	786	207.526	96.276	-43.296	1.00	58.79	A16S
ATOM	16468	O6	G	A	786	206.607	95.821	-42.598	1.00	58.79	A16S
ATOM	16469	C5	G	A	786	208.427	95.573	-44.121	1.00	58.79	A16S
ATOM	16470	N7	G	A	786	208.537	94.215	-44.366	1.00	58.79	A16S
ATOM	16471	C8	G	A	786	209.525	94.117	-45.208	1.00	58.79	A16S



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ATOM	16472	C2*	G	A	786	212.448	95.947	-45.668	1.00	54.29	A16S
ATOM	16473	O2*	G	A	786	213.281	96.751	-46.483	1.00	54.29	A16S
ATOM	16474	C3*	G	A	786	213.081	94.586	-45.427	1.00	54.29	A16S
ATOM	16475	O3*	G	A	786	214.472	94.729	-45.150	1.00	54.29	A16S
ATOM	16476	P	A	A	787	214.981	94.826	-43.617	1.00	65.52	A16S
ATOM	16477	O1P	A	A	787	216.429	95.155	-43.719	1.00	59.11	A16S
ATOM	16478	O2P	A	A	787	214.556	93.615	-42.867	1.00	59.11	A16S
ATOM	16479	O5*	A	A	787	214.188	96.057	-42.970	1.00	65.52	A16S
ATOM	16480	C5*	A	A	787	214.546	97.415	-43.291	1.00	65.52	A16S
ATOM	16481	C4*	A	A	787	213.575	98.414	-42.675	1.00	65.52	A16S
ATOM	16482	O4*	A	A	787	212.204	98.067	-43.005	1.00	65.52	A16S
ATOM	16483	C1*	A	A	787	211.338	98.547	-41.997	1.00	65.52	A16S
ATOM	16484	N9	A	A	787	210.607	97.416	-41.422	1.00	59.11	A16S
ATOM	16485	C4	A	A	787	209.481	97.508	-40.641	1.00	59.11	A16S
ATOM	16486	N3	A	A	787	208.847	98.624	-40.250	1.00	59.11	A16S
ATOM	16487	C2	A	A	787	207.781	98.321	-39.509	1.00	59.11	A16S
ATOM	16488	N1	A	A	787	207.310	97.134	-39.141	1.00	59.11	A16S
ATOM	16489	C6	A	A	787	207.963	96.029	-39.553	1.00	59.11	A16S
ATOM	16490	N6	A	A	787	207.477	94.838	-39.200	1.00	59.11	A16S
ATOM	16491	C5	A	A	787	209.120	96.207	-40.344	1.00	59.11	A16S
ATOM	16492	N7	A	A	787	210.008	95.309	-40.915	1.00	59.11	A16S
ATOM	16493	C8	A	A	787	210.870	96.073	-41.539	1.00	59.11	A16S
ATOM	16494	C2*	A	A	787	212.193	99.281	-40.969	1.00	65.52	A16S
ATOM	16495	O2*	A	A	787	212.180	100.641	-41.348	1.00	65.52	A16S
ATOM	16496	C3*	A	A	787	213.559	98.628	-41.169	1.00	65.52	A16S
ATOM	16497	O3*	A	A	787	214.610	99.505	-40.765	1.00	65.52	A16S
ATOM	16498	P	U	A	788	215.098	99.525	-39.233	1.00	62.28	A16S
ATOM	16499	O1P	U	A	788	216.094	100.606	-39.120	1.00	50.67	A16S
ATOM	16500	O2P	U	A	788	215.440	98.176	-38.758	1.00	50.67	A16S
ATOM	16501	O5*	U	A	788	213.797	99.939	-38.423	1.00	62.28	A16S
ATOM	16502	C5*	U	A	788	213.390	101.315	-38.309	1.00	62.28	A16S
ATOM	16503	C4*	U	A	788	212.239	101.433	-37.341	1.00	62.28	A16S
ATOM	16504	O4*	U	A	788	211.096	100.715	-37.877	1.00	62.28	A16S
ATOM	16505	C1*	U	A	788	210.387	100.096	-36.817	1.00	62.28	A16S
ATOM	16506	N1	U	A	788	210.403	98.644	-37.028	1.00	50.67	A16S
ATOM	16507	C6	U	A	788	211.393	98.025	-37.749	1.00	50.67	A16S
ATOM	16508	C2	U	A	788	209.381	97.918	-36.454	1.00	50.67	A16S
ATOM	16509	O2	U	A	788	208.478	98.453	-35.824	1.00	50.67	A16S
ATOM	16510	N3	U	A	788	209.453	96.556	-36.643	1.00	50.67	A16S
ATOM	16511	C4	U	A	788	210.428	95.872	-37.338	1.00	50.67	A16S
ATOM	16512	O4	U	A	788	210.403	94.641	-37.371	1.00	50.67	A16S
ATOM	16513	C5	U	A	788	211.441	96.701	-37.920	1.00	50.67	A16S
ATOM	16514	C2*	U	A	788	211.059	100.492	-35.503	1.00	62.28	A16S
ATOM	16515	O2*	U	A	788	210.390	101.628	-34.980	1.00	62.28	A16S
ATOM	16516	C3*	U	A	788	212.471	100.806	-35.972	1.00	62.28	A16S
ATOM	16517	O3*	U	A	788	213.139	101.698	-35.103	1.00	62.28	A16S
ATOM	16518	P	U	A	789	214.135	101.117	-33.989	1.00	65.88	A16S
ATOM	16519	O1P	U	A	789	214.663	102.274	-33.198	1.00	72.35	A16S
ATOM	16520	O2P	U	A	789	215.080	100.185	-34.657	1.00	72.35	A16S
ATOM	16521	O5*	U	A	789	213.180	100.260	-33.051	1.00	65.88	A16S
ATOM	16522	C5*	U	A	789	212.136	100.903	-32.321	1.00	65.88	A16S
ATOM	16523	C4*	U	A	789	211.279	99.886	-31.624	1.00	65.88	A16S
ATOM	16524	O4*	U	A	789	210.558	99.093	-32.597	1.00	65.88	A16S
ATOM	16525	C1*	U	A	789	210.364	97.788	-32.090	1.00	65.88	A16S
ATOM	16526	N1	U	A	789	210.970	96.825	-33.026	1.00	72.35	A16S
ATOM	16527	C6	U	A	789	212.047	97.171	-33.801	1.00	72.35	A16S
ATOM	16528	C2	U	A	789	210.440	95.543	-33.086	1.00	72.35	A16S
ATOM	16529	O2	U	A	789	209.459	95.187	-32.460	1.00	72.35	A16S
ATOM	16530	N3	U	A	789	211.100	94.687	-33.918	1.00	72.35	A16S
ATOM	16531	C4	U	A	789	212.195	94.961	-34.690	1.00	72.35	A16S
ATOM	16532	O4	U	A	789	212.719	94.049	-35.335	1.00	72.35	A16S
ATOM	16533	C5	U	A	789	212.659	96.307	-34.608	1.00	72.35	A16S
ATOM	16534	C2*	U	A	789	210.988	97.739	-30.688	1.00	65.88	A16S
ATOM	16535	O2*	U	A	789	209.988	97.997	-29.724	1.00	65.88	A16S
ATOM	16536	C3*	U	A	789	212.000	98.874	-30.753	1.00	65.88	A16S
ATOM	16537	O3*	U	A	789	212.287	99.416	-29.465	1.00	65.88	A16S
ATOM	16538	P	A	A	790	213.690	99.085	-28.751	1.00	61.49	A16S
ATOM	16539	O1P	A	A	790	213.690	99.745	-27.419	1.00	104.19	A16S
ATOM	16540	O2P	A	A	790	214.793	99.365	-29.709	1.00	104.19	A16S
ATOM	16541	O5*	A	A	790	213.605	97.521	-28.500	1.00	61.49	A16S
ATOM	16542	C5*	A	A	790	214.734	96.788	-28.018	1.00	61.49	A16S
ATOM	16543	C4*	A	A	790	214.273	95.467	-27.470	1.00	61.49	A16S
ATOM	16544	O4*	A	A	790	213.541	95.686	-26.238	1.00	61.49	A16S
ATOM	16545	C1*	A	A	790	212.400	94.849	-26.200	1.00	61.49	A16S
ATOM	16546	N9	A	A	790	211.227	95.723	-26.141	1.00	104.19	A16S
ATOM	16547	C4	A	A	790	210.071	95.523	-25.427	1.00	104.19	A16S
ATOM	16548	N3	A	A	790	209.772	94.483	-24.633	1.00	104.19	A16S



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ATOM	16549	C2	A	A	790	208.562	94.635	-24.104	1.00104.19	A16S
ATOM	16550	N1	A	A	790	207.683	95.630	-24.268	1.00104.19	A16S
ATOM	16551	C6	A	A	790	208.016	96.658	-25.077	1.00104.19	A16S
ATOM	16552	N6	A	A	790	207.139	97.654	-25.251	1.00104.19	A16S
ATOM	16553	C5	A	A	790	209.271	96.620	-25.693	1.00104.19	A16S
ATOM	16554	N7	A	A	790	209.909	97.499	-26.556	1.00104.19	A16S
ATOM	16555	C8	A	A	790	211.061	96.923	-26.793	1.00104.19	A16S
ATOM	16556	C2*	A	A	790	212.444	93.940	-27.437	1.00 61.49	A16S
ATOM	16557	O2*	A	A	790	213.036	92.695	-27.127	1.00 61.49	A16S
ATOM	16558	C3*	A	A	790	213.301	94.758	-28.393	1.00 61.49	A16S
ATOM	16559	O3*	A	A	790	214.002	93.976	-29.344	1.00 61.49	A16S
ATOM	16560	P	G	A	791	213.492	93.943	-30.862	1.00 65.87	A16S
ATOM	16561	O1P	G	A	791	214.495	93.171	-31.650	1.00 74.39	A16S
ATOM	16562	O2P	G	A	791	213.139	95.322	-31.279	1.00 74.39	A16S
ATOM	16563	O5*	G	A	791	212.172	93.063	-30.764	1.00 65.87	A16S
ATOM	16564	C5*	G	A	791	212.251	91.693	-30.339	1.00 65.87	A16S
ATOM	16565	C4*	G	A	791	210.873	91.109	-30.214	1.00 65.87	A16S
ATOM	16566	O4*	G	A	791	210.219	91.640	-29.035	1.00 65.87	A16S
ATOM	16567	C1*	G	A	791	208.845	91.870	-29.313	1.00 65.87	A16S
ATOM	16568	N9	G	A	791	208.608	93.308	-29.225	1.00 74.39	A16S
ATOM	16569	C4	G	A	791	207.474	93.937	-28.767	1.00 74.39	A16S
ATOM	16570	N3	G	A	791	206.360	93.333	-28.311	1.00 74.39	A16S
ATOM	16571	C2	G	A	791	205.435	94.208	-27.957	1.00 74.39	A16S
ATOM	16572	N2	G	A	791	204.256	93.775	-27.486	1.00 74.39	A16S
ATOM	16573	N1	G	A	791	205.597	95.568	-28.037	1.00 74.39	A16S
ATOM	16574	C6	G	A	791	206.742	96.208	-28.492	1.00 74.39	A16S
ATOM	16575	O6	G	A	791	206.797	97.443	-28.504	1.00 74.39	A16S
ATOM	16576	C5	G	A	791	207.732	95.283	-28.886	1.00 74.39	A16S
ATOM	16577	N7	G	A	791	208.996	95.498	-29.407	1.00 74.39	A16S
ATOM	16578	C8	G	A	791	209.478	94.303	-29.592	1.00 74.39	A16S
ATOM	16579	C2*	G	A	791	208.571	91.343	-30.722	1.00 65.87	A16S
ATOM	16580	O2*	G	A	791	208.146	89.994	-30.677	1.00 65.87	A16S
ATOM	16581	C3*	G	A	791	209.945	91.460	-31.358	1.00 65.87	A16S
ATOM	16582	O3*	G	A	791	210.099	90.602	-32.467	1.00 65.87	A16S
ATOM	16583	P	A	A	792	209.643	91.114	-33.913	1.00 67.04	A16S
ATOM	16584	O1P	A	A	792	210.437	90.403	-34.937	1.00 83.67	A16S
ATOM	16585	O2P	A	A	792	209.633	92.596	-33.900	1.00 83.67	A16S
ATOM	16586	O5*	A	A	792	208.133	90.630	-34.016	1.00 67.04	A16S
ATOM	16587	C5*	A	A	792	207.091	91.405	-33.421	1.00 67.04	A16S
ATOM	16588	C4*	A	A	792	206.121	91.874	-34.471	1.00 67.04	A16S
ATOM	16589	O4*	A	A	792	205.249	92.831	-33.823	1.00 67.04	A16S
ATOM	16590	C1*	A	A	792	205.426	94.121	-34.376	1.00 67.04	A16S
ATOM	16591	N9	A	A	792	205.454	95.074	-33.263	1.00 83.67	A16S
ATOM	16592	C4	A	A	792	204.349	95.615	-32.645	1.00 83.67	A16S
ATOM	16593	N3	A	A	792	203.054	95.386	-32.936	1.00 83.67	A16S
ATOM	16594	C2	A	A	792	202.267	96.107	-32.156	1.00 83.67	A16S
ATOM	16595	N1	A	A	792	202.598	96.969	-31.195	1.00 83.67	A16S
ATOM	16596	C6	A	A	792	203.907	97.175	-30.927	1.00 83.67	A16S
ATOM	16597	N6	A	A	792	204.241	98.047	-29.972	1.00 83.67	A16S
ATOM	16598	C5	A	A	792	204.841	96.465	-31.674	1.00 83.67	A16S
ATOM	16599	N7	A	A	792	206.226	96.450	-31.660	1.00 83.67	A16S
ATOM	16600	C8	A	A	792	206.541	95.611	-32.617	1.00 83.67	A16S
ATOM	16601	C2*	A	A	792	206.704	94.075	-35.203	1.00 67.04	A16S
ATOM	16602	O2*	A	A	792	206.805	95.089	-36.173	1.00 67.04	A16S
ATOM	16603	C3*	A	A	792	206.746	92.612	-35.647	1.00 67.04	A16S
ATOM	16604	O3*	A	A	792	206.195	92.114	-36.917	1.00 67.04	A16S
ATOM	16605	P	U	A	793	204.878	92.759	-37.624	1.00 66.07	A16S
ATOM	16606	O1P	U	A	793	204.697	92.023	-38.906	1.00 88.77	A16S
ATOM	16607	O2P	U	A	793	204.964	94.234	-37.647	1.00 88.77	A16S
ATOM	16608	O5*	U	A	793	203.634	92.340	-36.722	1.00 66.07	A16S
ATOM	16609	C5*	U	A	793	203.538	91.041	-36.119	1.00 66.07	A16S
ATOM	16610	C4*	U	A	793	202.523	90.204	-36.850	1.00 66.07	A16S
ATOM	16611	O4*	U	A	793	202.598	88.851	-36.344	1.00 66.07	A16S
ATOM	16612	C1*	U	A	793	201.317	88.390	-35.995	1.00 66.07	A16S
ATOM	16613	N1	U	A	793	201.463	87.523	-34.816	1.00 88.77	A16S
ATOM	16614	C6	U	A	793	201.879	88.008	-33.598	1.00 88.77	A16S
ATOM	16615	C2	U	A	793	201.182	86.178	-34.983	1.00 88.77	A16S
ATOM	16616	O2	U	A	793	200.805	85.707	-36.043	1.00 88.77	A16S
ATOM	16617	N3	U	A	793	201.366	85.398	-33.867	1.00 88.77	A16S
ATOM	16618	C4	U	A	793	201.796	85.811	-32.627	1.00 88.77	A16S
ATOM	16619	O4	U	A	793	201.992	84.967	-31.744	1.00 88.77	A16S
ATOM	16620	C5	U	A	793	202.052	87.220	-32.527	1.00 88.77	A16S
ATOM	16621	C2*	U	A	793	200.436	89.620	-35.805	1.00 66.07	A16S
ATOM	16622	O2*	U	A	793	199.106	89.278	-36.162	1.00 66.07	A16S
ATOM	16623	C3*	U	A	793	201.059	90.619	-36.782	1.00 66.07	A16S
ATOM	16624	O3*	U	A	793	200.478	90.470	-38.070	1.00 66.07	A16S
ATOM	16625	P	A	A	794	199.401	91.549	-38.583	1.00 64.08	A16S



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ATOM	16626	O1P	A	A	794	198.068	91.127	-38.046	1.00	61.37	A16S
ATOM	16627	O2P	A	A	794	199.565	91.773	-40.053	1.00	61.37	A16S
ATOM	16628	O5*	A	A	794	199.870	92.879	-37.856	1.00	64.08	A16S
ATOM	16629	C5*	A	A	794	200.436	93.949	-38.600	1.00	64.08	A16S
ATOM	16630	C4*	A	A	794	199.803	95.220	-38.155	1.00	64.08	A16S
ATOM	16631	O4*	A	A	794	200.024	95.353	-36.731	1.00	64.08	A16S
ATOM	16632	C1*	A	A	794	200.218	96.713	-36.409	1.00	64.08	A16S
ATOM	16633	N9	A	A	794	201.582	96.858	-35.905	1.00	61.37	A16S
ATOM	16634	C4	A	A	794	202.033	97.816	-35.037	1.00	61.37	A16S
ATOM	16635	N3	A	A	794	201.319	98.794	-34.462	1.00	61.37	A16S
ATOM	16636	C2	A	A	794	202.099	99.543	-33.683	1.00	61.37	A16S
ATOM	16637	N1	A	A	794	203.408	99.432	-33.439	1.00	61.37	A16S
ATOM	16638	C6	A	A	794	204.090	98.437	-34.038	1.00	61.37	A16S
ATOM	16639	N6	A	A	794	205.395	98.328	-33.808	1.00	61.37	A16S
ATOM	16640	C5	A	A	794	203.383	97.575	-34.879	1.00	61.37	A16S
ATOM	16641	N7	A	A	794	203.776	96.479	-35.621	1.00	61.37	A16S
ATOM	16642	C8	A	A	794	202.674	96.089	-36.207	1.00	61.37	A16S
ATOM	16643	C2*	A	A	794	199.970	97.515	-37.692	1.00	64.08	A16S
ATOM	16644	O2*	A	A	794	198.590	97.828	-37.783	1.00	64.08	A16S
ATOM	16645	C3*	A	A	794	200.334	96.500	-38.762	1.00	64.08	A16S
ATOM	16646	O3*	A	A	794	199.688	96.785	-39.990	1.00	64.08	A16S
ATOM	16647	P	C	A	795	200.426	97.704	-41.080	1.00	52.12	A16S
ATOM	16648	O1P	C	A	795	199.549	97.761	-42.279	1.00	54.76	A16S
ATOM	16649	O2P	C	A	795	201.827	97.235	-41.215	1.00	54.76	A16S
ATOM	16650	O5*	C	A	795	200.453	99.162	-40.428	1.00	52.12	A16S
ATOM	16651	C5*	C	A	795	199.237	99.914	-40.215	1.00	52.12	A16S
ATOM	16652	C4*	C	A	795	199.491	101.070	-39.276	1.00	52.12	A16S
ATOM	16653	O4*	C	A	795	199.974	100.565	-38.010	1.00	52.12	A16S
ATOM	16654	C1*	C	A	795	200.890	101.483	-37.450	1.00	52.12	A16S
ATOM	16655	N1	C	A	795	202.173	100.796	-37.228	1.00	54.76	A16S
ATOM	16656	C6	C	A	795	202.511	99.673	-37.931	1.00	54.76	A16S
ATOM	16657	C2	C	A	795	203.058	101.330	-36.283	1.00	54.76	A16S
ATOM	16658	O2	C	A	795	202.709	102.341	-35.638	1.00	54.76	A16S
ATOM	16659	N3	C	A	795	204.265	100.739	-36.097	1.00	54.76	A16S
ATOM	16660	C4	C	A	795	204.593	99.659	-36.810	1.00	54.76	A16S
ATOM	16661	N4	C	A	795	205.800	99.133	-36.622	1.00	54.76	A16S
ATOM	16662	C5	C	A	795	203.698	99.079	-37.756	1.00	54.76	A16S
ATOM	16663	C2*	C	A	795	201.020	102.674	-38.403	1.00	52.12	A16S
ATOM	16664	O2*	C	A	795	200.210	103.765	-37.979	1.00	52.12	A16S
ATOM	16665	C3*	C	A	795	200.545	102.071	-39.716	1.00	52.12	A16S
ATOM	16666	O3*	C	A	795	199.960	103.072	-40.526	1.00	52.12	A16S
ATOM	16667	P	C	A	796	200.173	103.020	-42.105	1.00	49.98	A16S
ATOM	16668	O1P	C	A	796	199.368	104.128	-42.682	1.00	48.32	A16S
ATOM	16669	O2P	C	A	796	199.901	101.613	-42.513	1.00	48.32	A16S
ATOM	16670	O5*	C	A	796	201.722	103.338	-42.314	1.00	49.98	A16S
ATOM	16671	C5*	C	A	796	202.200	104.709	-42.328	1.00	49.98	A16S
ATOM	16672	C4*	C	A	796	203.657	104.775	-42.755	1.00	49.98	A16S
ATOM	16673	O4*	C	A	796	204.467	104.074	-41.782	1.00	49.98	A16S
ATOM	16674	C1*	C	A	796	205.495	103.360	-42.437	1.00	49.98	A16S
ATOM	16675	N1	C	A	796	205.249	101.930	-42.248	1.00	48.32	A16S
ATOM	16676	C6	C	A	796	203.980	101.432	-42.164	1.00	48.32	A16S
ATOM	16677	C2	C	A	796	206.339	101.087	-42.163	1.00	48.32	A16S
ATOM	16678	O2	C	A	796	207.484	101.581	-42.202	1.00	48.32	A16S
ATOM	16679	N3	C	A	796	206.139	99.764	-42.026	1.00	48.32	A16S
ATOM	16680	C4	C	A	796	204.904	99.286	-41.947	1.00	48.32	A16S
ATOM	16681	N4	C	A	796	204.759	97.971	-41.810	1.00	48.32	A16S
ATOM	16682	C5	C	A	796	203.764	100.132	-42.008	1.00	48.32	A16S
ATOM	16683	C2*	C	A	796	205.448	103.727	-43.910	1.00	49.98	A16S
ATOM	16684	O2*	C	A	796	206.326	104.810	-44.137	1.00	49.98	A16S
ATOM	16685	C3*	C	A	796	203.986	104.091	-44.067	1.00	49.98	A16S
ATOM	16686	O3*	C	A	796	203.753	104.893	-45.197	1.00	49.98	A16S
ATOM	16687	P	C	A	797	203.329	104.172	-46.556	1.00	55.46	A16S
ATOM	16688	O1P	C	A	797	203.041	105.203	-47.588	1.00	53.89	A16S
ATOM	16689	O2P	C	A	797	202.296	103.165	-46.192	1.00	53.89	A16S
ATOM	16690	O5*	C	A	797	204.635	103.375	-46.981	1.00	55.46	A16S
ATOM	16691	C5*	C	A	797	205.829	104.077	-47.361	1.00	55.46	A16S
ATOM	16692	C4*	C	A	797	206.835	103.112	-47.931	1.00	55.46	A16S
ATOM	16693	O4*	C	A	797	207.314	102.217	-46.889	1.00	55.46	A16S
ATOM	16694	C1*	C	A	797	207.543	100.935	-47.438	1.00	55.46	A16S
ATOM	16695	N1	C	A	797	206.661	99.972	-46.767	1.00	53.89	A16S
ATOM	16696	C6	C	A	797	205.475	100.366	-46.221	1.00	53.89	A16S
ATOM	16697	C2	C	A	797	207.043	98.626	-46.723	1.00	53.89	A16S
ATOM	16698	O2	C	A	797	208.135	98.298	-47.195	1.00	53.89	A16S
ATOM	16699	N3	C	A	797	206.218	97.718	-46.170	1.00	53.89	A16S
ATOM	16700	C4	C	A	797	205.055	98.106	-45.666	1.00	53.89	A16S
ATOM	16701	N4	C	A	797	204.263	97.171	-45.153	1.00	53.89	A16S
ATOM	16702	C5	C	A	797	204.648	99.473	-45.670	1.00	53.89	A16S



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ATOM	16703	C2*	C	A	797	207.228	101.003	-48.933	1.00	55.46	A16S
ATOM	16704	O2*	C	A	797	208.401	101.269	-49.661	1.00	55.46	A16S
ATOM	16705	C3*	C	A	797	206.283	102.185	-48.995	1.00	55.46	A16S
ATOM	16706	O3*	C	A	797	206.262	102.782	-50.275	1.00	55.46	A16S
ATOM	16707	P	G	A	798	205.248	102.213	-51.383	1.00	53.34	A16S
ATOM	16708	O1P	G	A	798	205.257	103.152	-52.533	1.00	72.12	A16S
ATOM	16709	O2P	G	A	798	203.966	101.915	-50.706	1.00	72.12	A16S
ATOM	16710	O5*	G	A	798	205.909	100.818	-51.791	1.00	53.34	A16S
ATOM	16711	C5*	G	A	798	207.259	100.769	-52.317	1.00	53.34	A16S
ATOM	16712	C4*	G	A	798	207.627	99.362	-52.728	1.00	53.34	A16S
ATOM	16713	O4*	G	A	798	207.877	98.522	-51.571	1.00	53.34	A16S
ATOM	16714	C1*	G	A	798	207.441	97.198	-51.841	1.00	53.34	A16S
ATOM	16715	N9	G	A	798	206.425	96.844	-50.858	1.00	72.12	A16S
ATOM	16716	C4	G	A	798	205.975	95.584	-50.540	1.00	72.12	A16S
ATOM	16717	N3	G	A	798	206.413	94.428	-51.065	1.00	72.12	A16S
ATOM	16718	C2	G	A	798	205.772	93.384	-50.554	1.00	72.12	A16S
ATOM	16719	N2	G	A	798	206.087	92.150	-50.942	1.00	72.12	A16S
ATOM	16720	N1	G	A	798	204.776	93.471	-49.619	1.00	72.12	A16S
ATOM	16721	C6	G	A	798	204.304	94.655	-49.076	1.00	72.12	A16S
ATOM	16722	O6	G	A	798	203.382	94.631	-48.252	1.00	72.12	A16S
ATOM	16723	C5	G	A	798	204.993	95.777	-49.596	1.00	72.12	A16S
ATOM	16724	N7	G	A	798	204.843	97.122	-49.311	1.00	72.12	A16S
ATOM	16725	C8	G	A	798	205.711	97.716	-50.080	1.00	72.12	A16S
ATOM	16726	C2*	G	A	798	206.885	97.169	-53.266	1.00	53.34	A16S
ATOM	16727	O2*	G	A	798	207.866	96.685	-54.152	1.00	53.34	A16S
ATOM	16728	C3*	G	A	798	206.561	98.636	-53.514	1.00	53.34	A16S
ATOM	16729	O3*	G	A	798	206.633	98.974	-54.885	1.00	53.34	A16S
ATOM	16730	P	G	A	799	205.423	98.557	-55.855	1.00	52.14	A16S
ATOM	16731	O1P	G	A	799	205.911	98.672	-57.264	1.00	69.22	A16S
ATOM	16732	O2P	G	A	799	204.204	99.316	-55.437	1.00	69.22	A16S
ATOM	16733	O5*	G	A	799	205.234	97.016	-55.492	1.00	52.14	A16S
ATOM	16734	C5*	G	A	799	204.199	96.233	-56.073	1.00	52.14	A16S
ATOM	16735	C4*	G	A	799	204.481	94.776	-55.847	1.00	52.14	A16S
ATOM	16736	O4*	G	A	799	204.859	94.560	-54.469	1.00	52.14	A16S
ATOM	16737	C1*	G	A	799	204.280	93.352	-54.000	1.00	52.14	A16S
ATOM	16738	N9	G	A	799	203.390	93.675	-52.898	1.00	69.22	A16S
ATOM	16739	C4	G	A	799	202.665	92.789	-52.144	1.00	69.22	A16S
ATOM	16740	N3	G	A	799	202.687	91.450	-52.255	1.00	69.22	A16S
ATOM	16741	C2	G	A	799	201.872	90.875	-51.391	1.00	69.22	A16S
ATOM	16742	N2	G	A	799	201.789	89.546	-51.330	1.00	69.22	A16S
ATOM	16743	N1	G	A	799	201.085	91.559	-50.514	1.00	69.22	A16S
ATOM	16744	C6	G	A	799	201.047	92.940	-50.392	1.00	69.22	A16S
ATOM	16745	O6	G	A	799	200.294	93.469	-49.571	1.00	69.22	A16S
ATOM	16746	C5	G	A	799	201.926	93.563	-51.286	1.00	69.22	A16S
ATOM	16747	N7	G	A	799	202.202	94.908	-51.473	1.00	69.22	A16S
ATOM	16748	C8	G	A	799	203.081	94.924	-52.433	1.00	69.22	A16S
ATOM	16749	C2*	G	A	799	203.495	92.718	-55.149	1.00	52.14	A16S
ATOM	16750	O2*	G	A	799	204.215	91.652	-55.723	1.00	52.14	A16S
ATOM	16751	C3*	G	A	799	203.262	93.914	-56.061	1.00	52.14	A16S
ATOM	16752	O3*	G	A	799	203.124	93.568	-57.417	1.00	52.14	A16S
ATOM	16753	P	G	A	800	201.661	93.537	-58.065	1.00	44.60	A16S
ATOM	16754	O1P	G	A	800	201.773	92.843	-59.370	1.00	57.05	A16S
ATOM	16755	O2P	G	A	800	201.098	94.910	-58.015	1.00	57.05	A16S
ATOM	16756	O5*	G	A	800	200.848	92.570	-57.100	1.00	44.60	A16S
ATOM	16757	C5*	G	A	800	201.154	91.179	-57.085	1.00	44.60	A16S
ATOM	16758	C4*	G	A	800	200.274	90.457	-56.105	1.00	44.60	A16S
ATOM	16759	O4*	G	A	800	200.572	90.956	-54.790	1.00	44.60	A16S
ATOM	16760	C1*	G	A	800	199.382	91.030	-54.041	1.00	44.60	A16S
ATOM	16761	N9	G	A	800	199.208	92.433	-53.700	1.00	57.05	A16S
ATOM	16762	C4	G	A	800	198.620	92.934	-52.576	1.00	57.05	A16S
ATOM	16763	N3	G	A	800	198.072	92.208	-51.587	1.00	57.05	A16S
ATOM	16764	C2	G	A	800	197.596	92.969	-50.628	1.00	57.05	A16S
ATOM	16765	N2	G	A	800	197.024	92.400	-49.565	1.00	57.05	A16S
ATOM	16766	N1	G	A	800	197.654	94.341	-50.638	1.00	57.05	A16S
ATOM	16767	C6	G	A	800	198.225	95.113	-51.641	1.00	57.05	A16S
ATOM	16768	O6	G	A	800	198.255	96.351	-51.535	1.00	57.05	A16S
ATOM	16769	C5	G	A	800	198.729	94.303	-52.684	1.00	57.05	A16S
ATOM	16770	N7	G	A	800	199.359	94.654	-53.871	1.00	57.05	A16S
ATOM	16771	C8	G	A	800	199.624	93.513	-54.441	1.00	57.05	A16S
ATOM	16772	C2*	G	A	800	198.243	90.429	-54.882	1.00	44.60	A16S
ATOM	16773	O2*	G	A	800	198.078	89.044	-54.629	1.00	44.60	A16S
ATOM	16774	C3*	G	A	800	198.768	90.614	-56.293	1.00	44.60	A16S
ATOM	16775	O3*	G	A	800	198.257	89.569	-57.128	1.00	44.60	A16S
ATOM	16776	P	U	A	801	196.936	89.811	-58.017	1.00	46.35	A16S
ATOM	16777	O1P	U	A	801	197.162	89.172	-59.338	1.00	62.26	A16S
ATOM	16778	O2P	U	A	801	196.543	91.244	-57.973	1.00	62.26	A16S
ATOM	16779	O5*	U	A	801	195.856	88.925	-57.265	1.00	46.35	A16S



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ATOM	16780	C5* U	A 801	195.978	87.517	-57.325	1.00	46.35	A16S
ATOM	16781	C4* U	A 801	195.080	86.857	-56.327	1.00	46.35	A16S
ATOM	16782	O4* U	A 801	195.598	87.006	-54.983	1.00	46.35	A16S
ATOM	16783	C1* U	A 801	194.517	86.996	-54.071	1.00	46.35	A16S
ATOM	16784	N1 U	A 801	194.493	88.276	-53.353	1.00	62.26	A16S
ATOM	16785	C6 U	A 801	195.209	89.356	-53.797	1.00	62.26	A16S
ATOM	16786	C2 U	A 801	193.710	88.359	-52.221	1.00	62.26	A16S
ATOM	16787	O2 U	A 801	193.063	87.429	-51.793	1.00	62.26	A16S
ATOM	16788	N3 U	A 801	193.710	89.574	-51.607	1.00	62.26	A16S
ATOM	16789	C4 U	A 801	194.398	90.690	-51.997	1.00	62.26	A16S
ATOM	16790	O4 U	A 801	194.312	91.707	-51.322	1.00	62.26	A16S
ATOM	16791	C5 U	A 801	195.189	90.531	-53.177	1.00	62.26	A16S
ATOM	16792	C2* U	A 801	193.236	86.812	-54.887	1.00	46.35	A16S
ATOM	16793	O2* U	A 801	192.955	85.431	-54.968	1.00	46.35	A16S
ATOM	16794	C3* U	A 801	193.656	87.356	-56.239	1.00	46.35	A16S
ATOM	16795	O3* U	A 801	192.849	86.851	-57.279	1.00	46.35	A16S
ATOM	16796	P A	A 802	191.496	87.623	-57.662	1.00	51.39	A16S
ATOM	16797	O1P A	A 802	190.885	86.967	-58.848	1.00	45.38	A16S
ATOM	16798	O2P A	A 802	191.818	89.062	-57.709	1.00	45.38	A16S
ATOM	16799	O5* A	A 802	190.540	87.320	-56.429	1.00	51.39	A16S
ATOM	16800	C5* A	A 802	190.048	85.983	-56.197	1.00	51.39	A16S
ATOM	16801	C4* A	A 802	189.226	85.934	-54.932	1.00	51.39	A16S
ATOM	16802	O4* A	A 802	190.053	86.331	-53.807	1.00	51.39	A16S
ATOM	16803	C1* A	A 802	189.300	87.134	-52.924	1.00	51.39	A16S
ATOM	16804	N9 A	A 802	189.861	88.480	-52.970	1.00	45.38	A16S
ATOM	16805	C4 A	A 802	189.750	89.445	-52.003	1.00	45.38	A16S
ATOM	16806	N3 A	A 802	189.111	89.347	-50.828	1.00	45.38	A16S
ATOM	16807	C2 A	A 802	189.229	90.480	-50.141	1.00	45.38	A16S
ATOM	16808	N1 A	A 802	189.866	91.616	-50.471	1.00	45.38	A16S
ATOM	16809	C6 A	A 802	190.490	91.680	-51.664	1.00	45.38	A16S
ATOM	16810	N6 A	A 802	191.108	92.810	-51.998	1.00	45.38	A16S
ATOM	16811	C5 A	A 802	190.442	90.543	-52.484	1.00	45.38	A16S
ATOM	16812	N7 A	A 802	190.973	90.275	-53.734	1.00	45.38	A16S
ATOM	16813	C8 A	A 802	190.601	89.044	-53.977	1.00	45.38	A16S
ATOM	16814	C2* A	A 802	187.854	87.126	-53.417	1.00	51.39	A16S
ATOM	16815	O2* A	A 802	187.121	86.081	-52.795	1.00	51.39	A16S
ATOM	16816	C3* A	A 802	188.045	86.886	-54.901	1.00	51.39	A16S
ATOM	16817	O3* A	A 802	186.887	86.325	-55.491	1.00	51.39	A16S
ATOM	16818	P G	A 803	186.003	87.222	-56.484	1.00	49.18	A16S
ATOM	16819	O1P G	A 803	184.714	86.483	-56.672	1.00	51.52	A16S
ATOM	16820	O2P G	A 803	186.833	87.585	-57.679	1.00	51.52	A16S
ATOM	16821	O5* G	A 803	185.746	88.564	-55.665	1.00	49.18	A16S
ATOM	16822	C5* G	A 803	184.966	88.544	-54.465	1.00	49.18	A16S
ATOM	16823	C4* G	A 803	185.125	89.836	-53.728	1.00	49.18	A16S
ATOM	16824	O4* G	A 803	186.534	90.044	-53.481	1.00	49.18	A16S
ATOM	16825	C1* G	A 803	186.846	91.410	-53.621	1.00	49.18	A16S
ATOM	16826	N9 G	A 803	187.805	91.546	-54.711	1.00	51.52	A16S
ATOM	16827	C4 G	A 803	188.660	92.596	-54.889	1.00	51.52	A16S
ATOM	16828	N3 G	A 803	188.793	93.642	-54.060	1.00	51.52	A16S
ATOM	16829	C2 G	A 803	189.688	94.501	-54.493	1.00	51.52	A16S
ATOM	16830	N2 G	A 803	189.978	95.570	-53.755	1.00	51.52	A16S
ATOM	16831	N1 G	A 803	190.373	94.368	-55.670	1.00	51.52	A16S
ATOM	16832	C6 G	A 803	190.249	93.304	-56.548	1.00	51.52	A16S
ATOM	16833	O6 G	A 803	190.911	93.291	-57.589	1.00	51.52	A16S
ATOM	16834	C5 G	A 803	189.313	92.346	-56.074	1.00	51.52	A16S
ATOM	16835	N7 G	A 803	188.898	91.137	-56.618	1.00	51.52	A16S
ATOM	16836	C8 G	A 803	188.011	90.691	-55.772	1.00	51.52	A16S
ATOM	16837	C2* G	A 803	185.543	92.160	-53.912	1.00	49.18	A16S
ATOM	16838	O2* G	A 803	184.987	92.667	-52.714	1.00	49.18	A16S
ATOM	16839	C3* G	A 803	184.684	91.057	-54.506	1.00	49.18	A16S
ATOM	16840	O3* G	A 803	183.300	91.298	-54.319	1.00	49.18	A16S
ATOM	16841	P U	A 804	182.465	92.060	-55.459	1.00	45.94	A16S
ATOM	16842	O1P U	A 804	181.101	92.256	-54.901	1.00	58.17	A16S
ATOM	16843	O2P U	A 804	182.637	91.337	-56.747	1.00	58.17	A16S
ATOM	16844	O5* U	A 804	183.152	93.490	-55.559	1.00	45.94	A16S
ATOM	16845	C5* U	A 804	182.896	94.459	-54.547	1.00	45.94	A16S
ATOM	16846	C4* U	A 804	183.723	95.681	-54.775	1.00	45.94	A16S
ATOM	16847	O4* U	A 804	185.121	95.320	-54.739	1.00	45.94	A16S
ATOM	16848	C1* U	A 804	185.842	96.138	-55.639	1.00	45.94	A16S
ATOM	16849	N1 U	A 804	186.537	95.277	-56.608	1.00	58.17	A16S
ATOM	16850	C6 U	A 804	186.214	93.959	-56.755	1.00	58.17	A16S
ATOM	16851	C2 U	A 804	187.525	95.855	-57.384	1.00	58.17	A16S
ATOM	16852	O2 U	A 804	187.872	97.006	-57.265	1.00	58.17	A16S
ATOM	16853	N3 U	A 804	188.098	95.030	-58.303	1.00	58.17	A16S
ATOM	16854	C4 U	A 804	187.807	93.718	-58.514	1.00	58.17	A16S
ATOM	16855	O4 U	A 804	188.405	93.114	-59.395	1.00	58.17	A16S
ATOM	16856	C5 U	A 804	186.799	93.179	-57.657	1.00	58.17	A16S



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ATOM	16857	C2* U	A 804	184.842	97.091	-56.300	1.00	45.94	A16S
ATOM	16858	O2* U	A 804	184.816	98.327	-55.616	1.00	45.94	A16S
ATOM	16859	C3* U	A 804	183.533	96.344	-56.119	1.00	45.94	A16S
ATOM	16860	O3* U	A 804	182.441	97.237	-56.089	1.00	45.94	A16S
ATOM	16861	P C	A 805	181.159	96.940	-57.006	1.00	52.34	A16S
ATOM	16862	O1P C	A 805	180.285	98.153	-57.014	1.00	52.40	A16S
ATOM	16863	O2P C	A 805	180.601	95.608	-56.607	1.00	52.40	A16S
ATOM	16864	O5* C	A 805	181.753	96.843	-58.466	1.00	52.34	A16S
ATOM	16865	C5* C	A 805	182.130	98.022	-59.159	1.00	52.34	A16S
ATOM	16866	C4* C	A 805	182.208	97.739	-60.628	1.00	52.34	A16S
ATOM	16867	O4* C	A 805	183.335	96.877	-60.918	1.00	52.34	A16S
ATOM	16868	C1* C	A 805	182.997	95.990	-61.958	1.00	52.34	A16S
ATOM	16869	N1 C	A 805	183.053	94.623	-61.427	1.00	52.40	A16S
ATOM	16870	C6 C	A 805	182.862	94.371	-60.098	1.00	52.40	A16S
ATOM	16871	C2 C	A 805	183.292	93.584	-62.305	1.00	52.40	A16S
ATOM	16872	O2 C	A 805	183.512	93.849	-63.496	1.00	52.40	A16S
ATOM	16873	N3 C	A 805	183.296	92.315	-61.843	1.00	52.40	A16S
ATOM	16874	C4 C	A 805	183.093	92.077	-60.552	1.00	52.40	A16S
ATOM	16875	N4 C	A 805	183.094	90.812	-60.146	1.00	52.40	A16S
ATOM	16876	C5 C	A 805	182.878	93.123	-59.622	1.00	52.40	A16S
ATOM	16877	C2* C	A 805	181.598	96.366	-62.431	1.00	52.34	A16S
ATOM	16878	O2* C	A 805	181.723	97.374	-63.412	1.00	52.34	A16S
ATOM	16879	C3* C	A 805	181.023	96.985	-61.178	1.00	52.34	A16S
ATOM	16880	O3* C	A 805	179.970	97.863	-61.459	1.00	52.34	A16S
ATOM	16881	P C	A 806	178.476	97.327	-61.339	1.00	61.08	A16S
ATOM	16882	O1P C	A 806	177.607	98.535	-61.453	1.00	44.72	A16S
ATOM	16883	O2P C	A 806	178.410	96.453	-60.136	1.00	44.72	A16S
ATOM	16884	O5* C	A 806	178.299	96.375	-62.605	1.00	61.08	A16S
ATOM	16885	C5* C	A 806	178.341	96.906	-63.941	1.00	61.08	A16S
ATOM	16886	C4* C	A 806	177.990	95.828	-64.935	1.00	61.08	A16S
ATOM	16887	O4* C	A 806	179.078	94.882	-65.068	1.00	61.08	A16S
ATOM	16888	C1* C	A 806	178.561	93.580	-65.257	1.00	61.08	A16S
ATOM	16889	N1 C	A 806	179.058	92.743	-64.159	1.00	44.72	A16S
ATOM	16890	C6 C	A 806	179.393	93.309	-62.964	1.00	44.72	A16S
ATOM	16891	C2 C	A 806	179.176	91.353	-64.343	1.00	44.72	A16S
ATOM	16892	O2 C	A 806	178.926	90.861	-65.451	1.00	44.72	A16S
ATOM	16893	N3 C	A 806	179.577	90.585	-63.311	1.00	44.72	A16S
ATOM	16894	C4 C	A 806	179.887	91.150	-62.142	1.00	44.72	A16S
ATOM	16895	N4 C	A 806	180.274	90.355	-61.143	1.00	44.72	A16S
ATOM	16896	C5 C	A 806	179.814	92.560	-61.940	1.00	44.72	A16S
ATOM	16897	C2* C	A 806	177.034	93.683	-65.287	1.00	61.08	A16S
ATOM	16898	O2* C	A 806	176.594	93.756	-66.621	1.00	61.08	A16S
ATOM	16899	C3* C	A 806	176.793	94.990	-64.547	1.00	61.08	A16S
ATOM	16900	O3* C	A 806	175.595	95.633	-64.940	1.00	61.08	A16S
ATOM	16901	P A	A 807	174.229	95.280	-64.179	1.00	58.39	A16S
ATOM	16902	O1P A	A 807	173.154	96.152	-64.760	1.00	57.05	A16S
ATOM	16903	O2P A	A 807	174.486	95.306	-62.703	1.00	57.05	A16S
ATOM	16904	O5* A	A 807	173.972	93.775	-64.635	1.00	58.39	A16S
ATOM	16905	C5* A	A 807	173.837	93.472	-66.029	1.00	58.39	A16S
ATOM	16906	C4* A	A 807	173.685	91.992	-66.245	1.00	58.39	A16S
ATOM	16907	O4* A	A 807	174.925	91.311	-65.983	1.00	58.39	A16S
ATOM	16908	C1* A	A 807	174.645	89.980	-65.596	1.00	58.39	A16S
ATOM	16909	N9 A	A 807	175.417	89.670	-64.403	1.00	57.05	A16S
ATOM	16910	C4 A	A 807	175.610	88.411	-63.916	1.00	57.05	A16S
ATOM	16911	N3 A	A 807	175.127	87.273	-64.421	1.00	57.05	A16S
ATOM	16912	C2 A	A 807	175.524	86.235	-63.692	1.00	57.05	A16S
ATOM	16913	N1 A	A 807	176.287	86.212	-62.601	1.00	57.05	A16S
ATOM	16914	C6 A	A 807	176.755	87.380	-62.120	1.00	57.05	A16S
ATOM	16915	N6 A	A 807	177.518	87.360	-61.026	1.00	57.05	A16S
ATOM	16916	C5 A	A 807	176.408	88.554	-62.804	1.00	57.05	A16S
ATOM	16917	N7 A	A 807	176.710	89.891	-62.584	1.00	57.05	A16S
ATOM	16918	C8 A	A 807	176.096	90.511	-63.559	1.00	57.05	A16S
ATOM	16919	C2* A	A 807	173.137	89.837	-65.404	1.00	58.39	A16S
ATOM	16920	O2* A	A 807	172.569	89.144	-66.494	1.00	58.39	A16S
ATOM	16921	C3* A	A 807	172.699	91.290	-65.344	1.00	58.39	A16S
ATOM	16922	O3* A	A 807	171.391	91.467	-65.803	1.00	58.39	A16S
ATOM	16923	P C	A 808	170.249	91.793	-64.744	1.00	59.57	A16S
ATOM	16924	O1P C	A 808	169.089	92.296	-65.526	1.00	58.71	A16S
ATOM	16925	O2P C	A 808	170.847	92.659	-63.679	1.00	58.71	A16S
ATOM	16926	O5* C	A 808	169.917	90.352	-64.141	1.00	59.57	A16S
ATOM	16927	C5* C	A 808	169.375	89.323	-64.976	1.00	59.57	A16S
ATOM	16928	C4* C	A 808	169.566	87.968	-64.344	1.00	59.57	A16S
ATOM	16929	O4* C	A 808	170.976	87.627	-64.309	1.00	59.57	A16S
ATOM	16930	C1* C	A 808	171.223	86.767	-63.205	1.00	59.57	A16S
ATOM	16931	N1 C	A 808	172.258	87.346	-62.345	1.00	58.71	A16S
ATOM	16932	C6 C	A 808	172.515	88.690	-62.327	1.00	58.71	A16S
ATOM	16933	C2 C	A 808	172.963	86.485	-61.510	1.00	58.71	A16S



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ATOM	16934	O2	C	A	808	172.742	85.263	-61.600	1.00	58.71	A16S
ATOM	16935	N3	C	A	808	173.868	86.994	-60.638	1.00	58.71	A16S
ATOM	16936	C4	C	A	808	174.091	88.309	-60.606	1.00	58.71	A16S
ATOM	16937	N4	C	A	808	174.974	88.770	-59.723	1.00	58.71	A16S
ATOM	16938	C5	C	A	808	173.415	89.209	-61.480	1.00	58.71	A16S
ATOM	16939	C2*	C	A	808	169.927	86.624	-62.411	1.00	59.57	A16S
ATOM	16940	O2*	C	A	808	169.302	85.385	-62.675	1.00	59.57	A16S
ATOM	16941	C3*	C	A	808	169.137	87.826	-62.899	1.00	59.57	A16S
ATOM	16942	O3*	C	A	808	167.763	87.612	-62.725	1.00	59.57	A16S
ATOM	16943	P	G	A	809	167.074	88.164	-61.391	1.00	53.19	A16S
ATOM	16944	O1P	G	A	809	165.603	88.101	-61.598	1.00	55.45	A16S
ATOM	16945	O2P	G	A	809	167.730	89.475	-61.090	1.00	55.45	A16S
ATOM	16946	O5*	G	A	809	167.506	87.132	-60.262	1.00	53.19	A16S
ATOM	16947	C5*	G	A	809	166.983	85.822	-60.277	1.00	53.19	A16S
ATOM	16948	C4*	G	A	809	167.785	84.925	-59.387	1.00	53.19	A16S
ATOM	16949	O4*	G	A	809	169.196	85.038	-59.699	1.00	53.19	A16S
ATOM	16950	C1*	G	A	809	169.957	84.673	-58.558	1.00	53.19	A16S
ATOM	16951	N9	G	A	809	170.879	85.756	-58.223	1.00	55.45	A16S
ATOM	16952	C4	G	A	809	171.862	85.713	-57.256	1.00	55.45	A16S
ATOM	16953	N3	G	A	809	172.146	84.665	-56.461	1.00	55.45	A16S
ATOM	16954	C2	G	A	809	173.149	84.923	-55.635	1.00	55.45	A16S
ATOM	16955	N2	G	A	809	173.575	83.976	-54.792	1.00	55.45	A16S
ATOM	16956	N1	G	A	809	173.805	86.120	-55.579	1.00	55.45	A16S
ATOM	16957	C6	G	A	809	173.525	87.217	-56.377	1.00	55.45	A16S
ATOM	16958	O6	G	A	809	174.166	88.258	-56.225	1.00	55.45	A16S
ATOM	16959	C5	G	A	809	172.464	86.947	-57.290	1.00	55.45	A16S
ATOM	16960	N7	G	A	809	171.883	87.750	-58.263	1.00	55.45	A16S
ATOM	16961	C8	G	A	809	170.947	87.005	-58.787	1.00	55.45	A16S
ATOM	16962	C2*	G	A	809	168.965	84.415	-57.428	1.00	53.19	A16S
ATOM	16963	O2*	G	A	809	168.663	83.033	-57.370	1.00	53.19	A16S
ATOM	16964	C3*	G	A	809	167.757	85.198	-57.905	1.00	53.19	A16S
ATOM	16965	O3*	G	A	809	166.598	84.710	-57.296	1.00	53.19	A16S
ATOM	16966	P	C	A	810	165.971	85.520	-56.065	1.00	50.34	A16S
ATOM	16967	O1P	C	A	810	164.737	84.752	-55.747	1.00	44.54	A16S
ATOM	16968	O2P	C	A	810	165.860	86.941	-56.431	1.00	44.54	A16S
ATOM	16969	O5*	C	A	810	167.071	85.417	-54.896	1.00	50.34	A16S
ATOM	16970	C5*	C	A	810	167.309	84.151	-54.219	1.00	50.34	A16S
ATOM	16971	C4*	C	A	810	168.532	84.185	-53.295	1.00	50.34	A16S
ATOM	16972	O4*	C	A	810	169.711	84.721	-53.944	1.00	50.34	A16S
ATOM	16973	C1*	C	A	810	170.693	84.999	-52.959	1.00	50.34	A16S
ATOM	16974	N1	C	A	810	171.260	86.335	-53.177	1.00	44.54	A16S
ATOM	16975	C6	C	A	810	170.734	87.189	-54.099	1.00	44.54	A16S
ATOM	16976	C2	C	A	810	172.356	86.724	-52.405	1.00	44.54	A16S
ATOM	16977	O2	C	A	810	172.807	85.931	-51.579	1.00	44.54	A16S
ATOM	16978	N3	C	A	810	172.888	87.949	-52.573	1.00	44.54	A16S
ATOM	16979	C4	C	A	810	172.357	88.780	-53.461	1.00	44.54	A16S
ATOM	16980	N4	C	A	810	172.884	89.981	-53.580	1.00	44.54	A16S
ATOM	16981	C5	C	A	810	171.247	88.413	-54.269	1.00	44.54	A16S
ATOM	16982	C2*	C	A	810	170.007	84.900	-51.606	1.00	50.34	A16S
ATOM	16983	O2*	C	A	810	170.329	83.632	-51.072	1.00	50.34	A16S
ATOM	16984	C3*	C	A	810	168.537	84.972	-51.998	1.00	50.34	A16S
ATOM	16985	O3*	C	A	810	167.785	84.347	-50.986	1.00	50.34	A16S
ATOM	16986	P	C	A	811	167.170	85.242	-49.804	1.00	40.11	A16S
ATOM	16987	O1P	C	A	811	166.409	84.287	-48.938	1.00	42.78	A16S
ATOM	16988	O2P	C	A	811	166.482	86.424	-50.399	1.00	42.78	A16S
ATOM	16989	O5*	C	A	811	168.447	85.773	-49.009	1.00	40.11	A16S
ATOM	16990	C5*	C	A	811	169.234	84.881	-48.192	1.00	40.11	A16S
ATOM	16991	C4*	C	A	811	170.415	85.614	-47.613	1.00	40.11	A16S
ATOM	16992	O4*	C	A	811	171.135	86.254	-48.685	1.00	40.11	A16S
ATOM	16993	C1*	C	A	811	171.670	87.472	-48.233	1.00	40.11	A16S
ATOM	16994	N1	C	A	811	171.311	88.523	-49.184	1.00	42.78	A16S
ATOM	16995	C6	C	A	811	170.202	88.410	-49.970	1.00	42.78	A16S
ATOM	16996	C2	C	A	811	172.132	89.653	-49.276	1.00	42.78	A16S
ATOM	16997	O2	C	A	811	173.147	89.715	-48.571	1.00	42.78	A16S
ATOM	16998	N3	C	A	811	171.803	90.644	-50.136	1.00	42.78	A16S
ATOM	16999	C4	C	A	811	170.711	90.523	-50.897	1.00	42.78	A16S
ATOM	17000	N4	C	A	811	170.416	91.521	-51.730	1.00	42.78	A16S
ATOM	17001	C5	C	A	811	169.869	89.373	-50.836	1.00	42.78	A16S
ATOM	17002	C2*	C	A	811	171.225	87.702	-46.791	1.00	40.11	A16S
ATOM	17003	O2*	C	A	811	172.316	87.400	-45.953	1.00	40.11	A16S
ATOM	17004	C3*	C	A	811	170.060	86.725	-46.649	1.00	40.11	A16S
ATOM	17005	O3*	C	A	811	170.030	86.152	-45.348	1.00	40.11	A16S
ATOM	17006	P	C	A	812	168.882	86.568	-44.309	1.00	62.36	A16S
ATOM	17007	O1P	C	A	812	169.414	86.210	-42.960	1.00	53.01	A16S
ATOM	17008	O2P	C	A	812	167.578	86.015	-44.752	1.00	53.01	A16S
ATOM	17009	O5*	C	A	812	168.813	88.150	-44.431	1.00	62.36	A16S
ATOM	17010	C5*	C	A	812	169.518	88.964	-43.505	1.00	62.36	A16S



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ATOM	17011	C4*	C	A	812	169.108	90.400	-43.655	1.00	62.36	A16S
ATOM	17012	O4*	C	A	812	169.438	90.829	-44.986	1.00	62.36	A16S
ATOM	17013	C1*	C	A	812	168.606	91.899	-45.348	1.00	62.36	A16S
ATOM	17014	N1	C	A	812	168.211	91.722	-46.740	1.00	53.01	A16S
ATOM	17015	C6	C	A	812	167.436	90.671	-47.115	1.00	53.01	A16S
ATOM	17016	C2	C	A	812	168.676	92.642	-47.694	1.00	53.01	A16S
ATOM	17017	O2	C	A	812	169.364	93.610	-47.324	1.00	53.01	A16S
ATOM	17018	N3	C	A	812	168.376	92.453	-48.990	1.00	53.01	A16S
ATOM	17019	C4	C	A	812	167.646	91.400	-49.351	1.00	53.01	A16S
ATOM	17020	N4	C	A	812	167.404	91.223	-50.654	1.00	53.01	A16S
ATOM	17021	C5	C	A	812	167.136	90.469	-48.397	1.00	53.01	A16S
ATOM	17022	C2*	C	A	812	167.515	92.051	-44.289	1.00	62.36	A16S
ATOM	17023	O2*	C	A	812	167.907	93.165	-43.524	1.00	62.36	A16S
ATOM	17024	C3*	C	A	812	167.637	90.743	-43.515	1.00	62.36	A16S
ATOM	17025	O3*	C	A	812	167.294	90.750	-42.117	1.00	62.36	A16S
ATOM	17026	P	U	A	813	167.138	92.127	-41.273	1.00	55.76	A16S
ATOM	17027	O1P	U	A	813	166.780	91.605	-39.915	1.00	44.58	A16S
ATOM	17028	O2P	U	A	813	166.230	93.140	-41.929	1.00	44.58	A16S
ATOM	17029	O5*	U	A	813	168.623	92.700	-41.145	1.00	55.76	A16S
ATOM	17030	C5*	U	A	813	169.566	92.027	-40.304	1.00	55.76	A16S
ATOM	17031	C4*	U	A	813	170.909	92.702	-40.351	1.00	55.76	A16S
ATOM	17032	O4*	U	A	813	171.392	92.758	-41.712	1.00	55.76	A16S
ATOM	17033	C1*	U	A	813	172.269	93.856	-41.849	1.00	55.76	A16S
ATOM	17034	N1	U	A	813	171.818	94.682	-42.973	1.00	44.58	A16S
ATOM	17035	C6	U	A	813	170.550	94.583	-43.488	1.00	44.58	A16S
ATOM	17036	C2	U	A	813	172.732	95.563	-43.505	1.00	44.58	A16S
ATOM	17037	O2	U	A	813	173.856	95.690	-43.062	1.00	44.58	A16S
ATOM	17038	N3	U	A	813	172.282	96.288	-44.578	1.00	44.58	A16S
ATOM	17039	C4	U	A	813	171.037	96.218	-45.161	1.00	44.58	A16S
ATOM	17040	O4	U	A	813	170.832	96.830	-46.206	1.00	44.58	A16S
ATOM	17041	C5	U	A	813	170.138	95.301	-44.536	1.00	44.58	A16S
ATOM	17042	C2*	U	A	813	172.304	94.604	-40.517	1.00	55.76	A16S
ATOM	17043	O2*	U	A	813	173.448	94.189	-39.793	1.00	55.76	A16S
ATOM	17044	C3*	U	A	813	171.011	94.133	-39.865	1.00	55.76	A16S
ATOM	17045	O3*	U	A	813	171.149	94.152	-38.466	1.00	55.76	A16S
ATOM	17046	P	A	A	814	170.640	95.426	-37.631	1.00	45.45	A16S
ATOM	17047	O1P	A	A	814	169.256	95.760	-38.050	1.00	39.98	A16S
ATOM	17048	O2P	A	A	814	170.926	95.088	-36.205	1.00	39.98	A16S
ATOM	17049	O5*	A	A	814	171.572	96.637	-38.094	1.00	45.45	A16S
ATOM	17050	C5*	A	A	814	172.850	96.835	-37.482	1.00	45.45	A16S
ATOM	17051	C4*	A	A	814	173.575	97.985	-38.112	1.00	45.45	A16S
ATOM	17052	O4*	A	A	814	173.751	97.736	-39.518	1.00	45.45	A16S
ATOM	17053	C1*	A	A	814	173.931	98.967	-40.175	1.00	45.45	A16S
ATOM	17054	N9	A	A	814	173.103	99.009	-41.366	1.00	39.98	A16S
ATOM	17055	C4	A	A	814	173.292	99.911	-42.373	1.00	39.98	A16S
ATOM	17056	N3	A	A	814	174.255	100.838	-42.443	1.00	39.98	A16S
ATOM	17057	C2	A	A	814	174.121	101.549	-43.548	1.00	39.98	A16S
ATOM	17058	N1	A	A	814	173.189	101.453	-44.517	1.00	39.98	A16S
ATOM	17059	C6	A	A	814	172.228	100.513	-44.395	1.00	39.98	A16S
ATOM	17060	N6	A	A	814	171.279	100.437	-45.332	1.00	39.98	A16S
ATOM	17061	C5	A	A	814	172.280	99.681	-43.280	1.00	39.98	A16S
ATOM	17062	N7	A	A	814	171.485	98.628	-42.869	1.00	39.98	A16S
ATOM	17063	C8	A	A	814	172.020	98.261	-41.729	1.00	39.98	A16S
ATOM	17064	C2*	A	A	814	173.558	100.083	-39.208	1.00	45.45	A16S
ATOM	17065	O2*	A	A	814	174.740	100.749	-38.826	1.00	45.45	A16S
ATOM	17066	C3*	A	A	814	172.857	99.310	-38.099	1.00	45.45	A16S
ATOM	17067	O3*	A	A	814	172.998	99.933	-36.845	1.00	45.45	A16S
ATOM	17068	P	A	A	815	171.756	100.748	-36.221	1.00	42.92	A16S
ATOM	17069	O1P	A	A	815	170.549	100.630	-37.088	1.00	32.31	A16S
ATOM	17070	O2P	A	A	815	171.663	100.355	-34.783	1.00	32.31	A16S
ATOM	17071	O5*	A	A	815	172.247	102.250	-36.336	1.00	42.92	A16S
ATOM	17072	C5*	A	A	815	173.328	102.726	-35.536	1.00	42.92	A16S
ATOM	17073	C4*	A	A	815	173.800	104.021	-36.093	1.00	42.92	A16S
ATOM	17074	O4*	A	A	815	174.661	104.698	-35.155	1.00	42.92	A16S
ATOM	17075	C1*	A	A	815	175.855	105.063	-35.797	1.00	42.92	A16S
ATOM	17076	N9	A	A	815	176.921	104.960	-34.813	1.00	32.31	A16S
ATOM	17077	C4	A	A	815	177.725	105.968	-34.373	1.00	32.31	A16S
ATOM	17078	N3	A	A	815	177.702	107.243	-34.762	1.00	32.31	A16S
ATOM	17079	C2	A	A	815	178.615	107.945	-34.091	1.00	32.31	A16S
ATOM	17080	N1	A	A	815	179.474	107.531	-33.156	1.00	32.31	A16S
ATOM	17081	C6	A	A	815	179.457	106.229	-32.802	1.00	32.31	A16S
ATOM	17082	N6	A	A	815	180.301	105.796	-31.870	1.00	32.31	A16S
ATOM	17083	C5	A	A	815	178.553	105.404	-33.428	1.00	32.31	A16S
ATOM	17084	N7	A	A	815	178.290	104.062	-33.281	1.00	32.31	A16S
ATOM	17085	C8	A	A	815	177.313	103.845	-34.125	1.00	32.31	A16S
ATOM	17086	C2*	A	A	815	176.003	104.105	-36.978	1.00	42.92	A16S
ATOM	17087	O2*	A	A	815	176.775	104.711	-37.989	1.00	42.92	A16S



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ATOM	17088	C3*	A	A	815	174.553	103.901	-37.396	1.00	42.92	A16S
ATOM	17089	O3*	A	A	815	174.124	104.943	-38.244	1.00	42.92	A16S
ATOM	17090	P	A	A	816	173.922	104.644	-39.799	1.00	45.05	A16S
ATOM	17091	O1P	A	A	816	173.249	105.830	-40.421	1.00	42.51	A16S
ATOM	17092	O2P	A	A	816	175.245	104.188	-40.311	1.00	42.51	A16S
ATOM	17093	O5*	A	A	816	172.934	103.393	-39.821	1.00	45.05	A16S
ATOM	17094	C5*	A	A	816	171.544	103.551	-39.513	1.00	45.05	A16S
ATOM	17095	C4*	A	A	816	170.715	103.431	-40.769	1.00	45.05	A16S
ATOM	17096	O4*	A	A	816	170.943	102.125	-41.341	1.00	45.05	A16S
ATOM	17097	C1*	A	A	816	169.760	101.670	-41.959	1.00	45.05	A16S
ATOM	17098	N9	A	A	816	169.404	100.371	-41.393	1.00	42.51	A16S
ATOM	17099	C4	A	A	816	168.844	99.340	-42.102	1.00	42.51	A16S
ATOM	17100	N3	A	A	816	168.537	99.335	-43.409	1.00	42.51	A16S
ATOM	17101	C2	A	A	816	168.022	98.162	-43.759	1.00	42.51	A16S
ATOM	17102	N1	A	A	816	167.809	97.068	-43.009	1.00	42.51	A16S
ATOM	17103	C6	A	A	816	168.150	97.103	-41.701	1.00	42.51	A16S
ATOM	17104	N6	A	A	816	167.981	95.999	-40.968	1.00	42.51	A16S
ATOM	17105	C5	A	A	816	168.680	98.301	-41.200	1.00	42.51	A16S
ATOM	17106	N7	A	A	816	169.117	98.673	-39.937	1.00	42.51	A16S
ATOM	17107	C8	A	A	816	169.540	99.908	-40.104	1.00	42.51	A16S
ATOM	17108	C2*	A	A	816	168.678	102.737	-41.782	1.00	45.05	A16S
ATOM	17109	O2*	A	A	816	168.616	103.562	-42.926	1.00	45.05	A16S
ATOM	17110	C3*	A	A	816	169.200	103.520	-40.590	1.00	45.05	A16S
ATOM	17111	O3*	A	A	816	168.711	104.867	-40.656	1.00	45.05	A16S
ATOM	17112	P	C	A	817	167.825	105.459	-39.447	1.00	42.70	A16S
ATOM	17113	O1P	C	A	817	166.498	105.859	-39.996	1.00	40.93	A16S
ATOM	17114	O2P	C	A	817	167.875	104.527	-38.281	1.00	40.93	A16S
ATOM	17115	O5*	C	A	817	168.607	106.780	-39.042	1.00	42.70	A16S
ATOM	17116	C5*	C	A	817	168.059	108.059	-39.335	1.00	42.70	A16S
ATOM	17117	C4*	C	A	817	169.066	109.118	-39.022	1.00	42.70	A16S
ATOM	17118	O4*	C	A	817	169.515	108.918	-37.668	1.00	42.70	A16S
ATOM	17119	C1*	C	A	817	170.905	108.779	-37.653	1.00	42.70	A16S
ATOM	17120	N1	C	A	817	171.245	107.833	-36.609	1.00	40.93	A16S
ATOM	17121	C6	C	A	817	170.544	106.681	-36.447	1.00	40.93	A16S
ATOM	17122	C2	C	A	817	172.279	108.162	-35.744	1.00	40.93	A16S
ATOM	17123	O2	C	A	817	172.934	109.209	-35.961	1.00	40.93	A16S
ATOM	17124	N3	C	A	817	172.540	107.356	-34.695	1.00	40.93	A16S
ATOM	17125	C4	C	A	817	171.806	106.267	-34.506	1.00	40.93	A16S
ATOM	17126	N4	C	A	817	172.038	105.544	-33.420	1.00	40.93	A16S
ATOM	17127	C5	C	A	817	170.783	105.881	-35.414	1.00	40.93	A16S
ATOM	17128	C2*	C	A	817	171.330	108.363	-39.047	1.00	42.70	A16S
ATOM	17129	O2*	C	A	817	172.643	108.833	-39.249	1.00	42.70	A16S
ATOM	17130	C3*	C	A	817	170.313	109.111	-39.895	1.00	42.70	A16S
ATOM	17131	O3*	C	A	817	170.750	110.453	-40.022	1.00	42.70	A16S
ATOM	17132	P	G	A	818	169.832	111.520	-40.793	1.00	50.30	A16S
ATOM	17133	O1P	G	A	818	168.630	110.835	-41.356	1.00	68.70	A16S
ATOM	17134	O2P	G	A	818	170.725	112.313	-41.687	1.00	68.70	A16S
ATOM	17135	O5*	G	A	818	169.334	112.474	-39.625	1.00	50.30	A16S
ATOM	17136	C5*	G	A	818	170.232	113.421	-39.013	1.00	50.30	A16S
ATOM	17137	C4*	G	A	818	169.628	113.945	-37.738	1.00	50.30	A16S
ATOM	17138	O4*	G	A	818	168.292	114.439	-38.038	1.00	50.30	A16S
ATOM	17139	C1*	G	A	818	167.366	113.785	-37.205	1.00	50.30	A16S
ATOM	17140	N9	G	A	818	166.057	113.800	-37.842	1.00	68.70	A16S
ATOM	17141	C4	G	A	818	164.969	114.471	-37.358	1.00	68.70	A16S
ATOM	17142	N3	G	A	818	164.931	115.171	-36.205	1.00	68.70	A16S
ATOM	17143	C2	G	A	818	163.753	115.714	-36.000	1.00	68.70	A16S
ATOM	17144	N2	G	A	818	163.538	116.418	-34.874	1.00	68.70	A16S
ATOM	17145	N1	G	A	818	162.695	115.597	-36.875	1.00	68.70	A16S
ATOM	17146	C6	G	A	818	162.714	114.875	-38.068	1.00	68.70	A16S
ATOM	17147	O6	G	A	818	161.699	114.823	-38.778	1.00	68.70	A16S
ATOM	17148	C5	G	A	818	163.972	114.277	-38.286	1.00	68.70	A16S
ATOM	17149	N7	G	A	818	164.419	113.477	-39.325	1.00	68.70	A16S
ATOM	17150	C8	G	A	818	165.662	113.211	-39.015	1.00	68.70	A16S
ATOM	17151	C2*	G	A	818	168.007	112.459	-36.824	1.00	50.30	A16S
ATOM	17152	O2*	G	A	818	167.410	111.948	-35.660	1.00	50.30	A16S
ATOM	17153	C3*	G	A	818	169.457	112.905	-36.637	1.00	50.30	A16S
ATOM	17154	O3*	G	A	818	169.576	113.598	-35.398	1.00	50.30	A16S
ATOM	17155	P	A	A	819	170.678	113.162	-34.317	1.00	55.96	A16S
ATOM	17156	O1P	A	A	819	170.456	114.039	-33.144	1.00	37.14	A16S
ATOM	17157	O2P	A	A	819	172.006	113.150	-34.960	1.00	37.14	A16S
ATOM	17158	O5*	A	A	819	170.232	111.691	-33.884	1.00	55.96	A16S
ATOM	17159	C5*	A	A	819	169.821	110.764	-34.891	1.00	55.96	A16S
ATOM	17160	C4*	A	A	819	169.354	109.456	-34.313	1.00	55.96	A16S
ATOM	17161	O4*	A	A	819	170.454	108.801	-33.649	1.00	55.96	A16S
ATOM	17162	C1*	A	A	819	170.027	108.279	-32.425	1.00	55.96	A16S
ATOM	17163	N9	A	A	819	171.145	108.399	-31.488	1.00	37.14	A16S
ATOM	17164	C4	A	A	819	171.512	107.452	-30.571	1.00	37.14	A16S



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ATOM	17165	N3	A	A	819	170.912	106.274	-30.343	1.00	37.14	A16S
ATOM	17166	C2	A	A	819	171.543	105.617	-29.373	1.00	37.14	A16S
ATOM	17167	N1	A	A	819	172.623	105.977	-28.665	1.00	37.14	A16S
ATOM	17168	C6	A	A	819	173.196	107.166	-28.924	1.00	37.14	A16S
ATOM	17169	N6	A	A	819	174.268	107.519	-28.219	1.00	37.14	A16S
ATOM	17170	C5	A	A	819	172.626	107.961	-29.923	1.00	37.14	A16S
ATOM	17171	N7	A	A	819	172.956	109.212	-30.419	1.00	37.14	A16S
ATOM	17172	C8	A	A	819	172.048	109.430	-31.341	1.00	37.14	A16S
ATOM	17173	C2*	A	A	819	168.759	109.039	-32.039	1.00	55.96	A16S
ATOM	17174	O2*	A	A	819	167.941	108.141	-31.319	1.00	55.96	A16S
ATOM	17175	C3*	A	A	819	168.142	109.388	-33.399	1.00	55.96	A16S
ATOM	17176	O3*	A	A	819	167.300	108.327	-33.865	1.00	55.96	A16S
ATOM	17177	P	U	A	820	166.179	108.621	-34.991	1.00	37.60	A16S
ATOM	17178	O1P	U	A	820	165.538	107.322	-35.274	1.00	45.66	A16S
ATOM	17179	O2P	U	A	820	166.720	109.434	-36.112	1.00	45.66	A16S
ATOM	17180	O5*	U	A	820	165.114	109.557	-34.271	1.00	37.60	A16S
ATOM	17181	C5*	U	A	820	164.043	109.009	-33.474	1.00	37.60	A16S
ATOM	17182	C4*	U	A	820	162.978	110.061	-33.246	1.00	37.60	A16S
ATOM	17183	O4*	U	A	820	163.546	111.170	-32.497	1.00	37.60	A16S
ATOM	17184	C1*	U	A	820	163.321	112.365	-33.189	1.00	37.60	A16S
ATOM	17185	N1	U	A	820	164.424	113.288	-32.904	1.00	45.66	A16S
ATOM	17186	C6	U	A	820	165.675	113.127	-33.430	1.00	45.66	A16S
ATOM	17187	C2	U	A	820	164.144	114.338	-32.072	1.00	45.66	A16S
ATOM	17188	O2	U	A	820	163.044	114.509	-31.569	1.00	45.66	A16S
ATOM	17189	N3	U	A	820	165.191	115.186	-31.835	1.00	45.66	A16S
ATOM	17190	C4	U	A	820	166.455	115.084	-32.327	1.00	45.66	A16S
ATOM	17191	O4	U	A	820	167.293	115.915	-31.994	1.00	45.66	A16S
ATOM	17192	C5	U	A	820	166.675	113.967	-33.178	1.00	45.66	A16S
ATOM	17193	C2*	U	A	820	163.132	111.979	-34.649	1.00	37.60	A16S
ATOM	17194	O2*	U	A	820	162.345	112.946	-35.292	1.00	37.60	A16S
ATOM	17195	C3*	U	A	820	162.384	110.659	-34.521	1.00	37.60	A16S
ATOM	17196	O3*	U	A	820	161.007	110.989	-34.346	1.00	37.60	A16S
ATOM	17197	P	G	A	821	159.913	109.835	-34.100	1.00	45.71	A16S
ATOM	17198	O1P	G	A	821	158.820	110.524	-33.374	1.00	55.15	A16S
ATOM	17199	O2P	G	A	821	160.544	108.606	-33.501	1.00	55.15	A16S
ATOM	17200	O5*	G	A	821	159.334	109.499	-35.538	1.00	45.71	A16S
ATOM	17201	C5*	G	A	821	159.891	108.431	-36.299	1.00	45.71	A16S
ATOM	17202	C4*	G	A	821	158.803	107.649	-36.969	1.00	45.71	A16S
ATOM	17203	O4*	G	A	821	158.109	106.795	-36.024	1.00	45.71	A16S
ATOM	17204	C1*	G	A	821	156.757	106.664	-36.433	1.00	45.71	A16S
ATOM	17205	N9	G	A	821	155.891	107.145	-35.367	1.00	55.15	A16S
ATOM	17206	C4	G	A	821	154.527	107.042	-35.344	1.00	55.15	A16S
ATOM	17207	N3	G	A	821	153.769	106.476	-36.299	1.00	55.15	A16S
ATOM	17208	C2	G	A	821	152.490	106.558	-36.023	1.00	55.15	A16S
ATOM	17209	N2	G	A	821	151.593	106.095	-36.903	1.00	55.15	A16S
ATOM	17210	N1	G	A	821	151.994	107.112	-34.874	1.00	55.15	A16S
ATOM	17211	C6	G	A	821	152.761	107.686	-33.866	1.00	55.15	A16S
ATOM	17212	O6	G	A	821	152.213	108.144	-32.852	1.00	55.15	A16S
ATOM	17213	C5	G	A	821	154.134	107.642	-34.177	1.00	55.15	A16S
ATOM	17214	N7	G	A	821	155.230	108.119	-33.476	1.00	55.15	A16S
ATOM	17215	C8	G	A	821	156.253	107.796	-34.219	1.00	55.15	A16S
ATOM	17216	C2*	G	A	821	156.554	107.528	-37.678	1.00	45.71	A16S
ATOM	17217	O2*	G	A	821	156.637	106.744	-38.840	1.00	45.71	A16S
ATOM	17218	C3*	G	A	821	157.706	108.501	-37.560	1.00	45.71	A16S
ATOM	17219	O3*	G	A	821	158.079	109.038	-38.792	1.00	45.71	A16S
ATOM	17220	P	C	A	822	157.585	110.503	-39.172	1.00	39.67	A16S
ATOM	17221	O1P	C	A	822	158.389	110.979	-40.325	1.00	60.01	A16S
ATOM	17222	O2P	C	A	822	157.549	111.300	-37.917	1.00	60.01	A16S
ATOM	17223	O5*	C	A	822	156.113	110.241	-39.697	1.00	39.67	A16S
ATOM	17224	C5*	C	A	822	155.890	109.283	-40.733	1.00	39.67	A16S
ATOM	17225	C4*	C	A	822	154.418	109.102	-40.960	1.00	39.67	A16S
ATOM	17226	O4*	C	A	822	153.824	108.353	-39.871	1.00	39.67	A16S
ATOM	17227	C1*	C	A	822	152.513	108.841	-39.628	1.00	39.67	A16S
ATOM	17228	N1	C	A	822	152.435	109.330	-38.251	1.00	60.01	A16S
ATOM	17229	C6	C	A	822	153.531	109.850	-37.627	1.00	60.01	A16S
ATOM	17230	C2	C	A	822	151.214	109.268	-37.594	1.00	60.01	A16S
ATOM	17231	O2	C	A	822	150.247	108.762	-38.179	1.00	60.01	A16S
ATOM	17232	N3	C	A	822	151.116	109.751	-36.339	1.00	60.01	A16S
ATOM	17233	C4	C	A	822	152.193	110.258	-35.740	1.00	60.01	A16S
ATOM	17234	N4	C	A	822	152.063	110.718	-34.500	1.00	60.01	A16S
ATOM	17235	C5	C	A	822	153.456	110.317	-36.384	1.00	60.01	A16S
ATOM	17236	C2*	C	A	822	152.238	109.972	-40.618	1.00	39.67	A16S
ATOM	17237	O2*	C	A	822	151.553	109.478	-41.744	1.00	39.67	A16S
ATOM	17238	C3*	C	A	822	153.642	110.401	-40.988	1.00	39.67	A16S
ATOM	17239	O3*	C	A	822	153.668	110.996	-42.253	1.00	39.67	A16S
ATOM	17240	P	G	A	823	153.412	112.559	-42.362	1.00	42.22	A16S
ATOM	17241	O1P	G	A	823	153.688	112.918	-43.777	1.00	53.26	A16S



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ATOM	17242	O2P	G	A	823	154.173	113.231	-41.260	1.00	53.26	A16S
ATOM	17243	O5*	G	A	823	151.860	112.668	-42.066	1.00	42.22	A16S
ATOM	17244	C5*	G	A	823	150.943	111.959	-42.887	1.00	42.22	A16S
ATOM	17245	C4*	G	A	823	149.537	112.269	-42.476	1.00	42.22	A16S
ATOM	17246	O4*	G	A	823	149.172	111.504	-41.304	1.00	42.22	A16S
ATOM	17247	C1*	G	A	823	148.321	112.283	-40.479	1.00	42.22	A16S
ATOM	17248	N9	G	A	823	149.029	112.528	-39.230	1.00	53.26	A16S
ATOM	17249	C4	G	A	823	148.471	112.761	-38.006	1.00	53.26	A16S
ATOM	17250	N3	G	A	823	147.158	112.812	-37.736	1.00	53.26	A16S
ATOM	17251	C2	G	A	823	146.930	113.024	-36.457	1.00	53.26	A16S
ATOM	17252	N2	G	A	823	145.677	113.062	-36.002	1.00	53.26	A16S
ATOM	17253	N1	G	A	823	147.907	113.202	-35.528	1.00	53.26	A16S
ATOM	17254	C6	G	A	823	149.262	113.156	-35.787	1.00	53.26	A16S
ATOM	17255	O6	G	A	823	150.062	113.326	-34.870	1.00	53.26	A16S
ATOM	17256	C5	G	A	823	149.523	112.906	-37.146	1.00	53.26	A16S
ATOM	17257	N7	G	A	823	150.726	112.770	-37.814	1.00	53.26	A16S
ATOM	17258	C8	G	A	823	150.383	112.557	-39.049	1.00	53.26	A16S
ATOM	17259	C2*	G	A	823	148.030	113.583	-41.226	1.00	42.22	A16S
ATOM	17260	O2*	G	A	823	146.907	113.423	-42.077	1.00	42.22	A16S
ATOM	17261	C3*	G	A	823	149.273	113.709	-42.078	1.00	42.22	A16S
ATOM	17262	O3*	G	A	823	149.023	114.541	-43.174	1.00	42.22	A16S
ATOM	17263	P	C	A	824	149.292	116.096	-43.017	1.00	46.65	A16S
ATOM	17264	O1P	C	A	824	149.240	116.690	-44.386	1.00	47.63	A16S
ATOM	17265	O2P	C	A	824	150.509	116.215	-42.187	1.00	47.63	A16S
ATOM	17266	O5*	C	A	824	148.068	116.606	-42.141	1.00	46.65	A16S
ATOM	17267	C5*	C	A	824	146.719	116.425	-42.609	1.00	46.65	A16S
ATOM	17268	C4*	C	A	824	145.725	116.954	-41.603	1.00	46.65	A16S
ATOM	17269	O4*	C	A	824	145.588	116.043	-40.488	1.00	46.65	A16S
ATOM	17270	C1*	C	A	824	145.330	116.782	-39.317	1.00	46.65	A16S
ATOM	17271	N1	C	A	824	146.424	116.555	-38.376	1.00	47.63	A16S
ATOM	17272	C6	C	A	824	147.658	116.160	-38.805	1.00	47.63	A16S
ATOM	17273	C2	C	A	824	146.183	116.767	-37.023	1.00	47.63	A16S
ATOM	17274	O2	C	A	824	145.035	117.103	-36.658	1.00	47.63	A16S
ATOM	17275	N3	C	A	824	147.193	116.598	-36.140	1.00	47.63	A16S
ATOM	17276	C4	C	A	824	148.395	116.224	-36.570	1.00	47.63	A16S
ATOM	17277	N4	C	A	824	149.354	116.083	-35.666	1.00	47.63	A16S
ATOM	17278	C5	C	A	824	148.661	115.983	-37.944	1.00	47.63	A16S
ATOM	17279	C2*	C	A	824	145.245	118.259	-39.694	1.00	46.65	A16S
ATOM	17280	O2*	C	A	824	143.902	118.596	-39.957	1.00	46.65	A16S
ATOM	17281	C3*	C	A	824	146.058	118.293	-40.973	1.00	46.65	A16S
ATOM	17282	O3*	C	A	824	145.636	119.362	-41.792	1.00	46.65	A16S
ATOM	17283	P	G	A	825	146.138	120.848	-41.468	1.00	46.32	A16S
ATOM	17284	O1P	G	A	825	145.505	121.705	-42.514	1.00	47.83	A16S
ATOM	17285	O2P	G	A	825	147.614	120.805	-41.342	1.00	47.83	A16S
ATOM	17286	O5*	G	A	825	145.482	121.207	-40.056	1.00	46.32	A16S
ATOM	17287	C5*	G	A	825	144.072	121.469	-39.979	1.00	46.32	A16S
ATOM	17288	C4*	G	A	825	143.688	121.952	-38.613	1.00	46.32	A16S
ATOM	17289	O4*	G	A	825	143.856	120.890	-37.654	1.00	46.32	A16S
ATOM	17290	C1*	G	A	825	144.314	121.424	-36.428	1.00	46.32	A16S
ATOM	17291	N1	G	A	825	145.648	120.885	-36.179	1.00	47.83	A16S
ATOM	17292	C4	G	A	825	146.371	120.962	-35.008	1.00	47.83	A16S
ATOM	17293	N3	G	A	825	145.969	121.538	-33.862	1.00	47.83	A16S
ATOM	17294	C2	G	A	825	146.888	121.454	-32.922	1.00	47.83	A16S
ATOM	17295	N2	G	A	825	146.661	121.971	-31.723	1.00	47.83	A16S
ATOM	17296	N1	G	A	825	148.093	120.857	-33.091	1.00	47.83	A16S
ATOM	17297	C6	G	A	825	148.525	120.262	-34.260	1.00	47.83	A16S
ATOM	17298	O6	G	A	825	149.638	119.758	-34.309	1.00	47.83	A16S
ATOM	17299	C5	G	A	825	147.561	120.337	-35.273	1.00	47.83	A16S
ATOM	17300	N7	G	A	825	147.593	119.864	-36.576	1.00	47.83	A16S
ATOM	17301	C8	G	A	825	146.439	120.209	-37.075	1.00	47.83	A16S
ATOM	17302	C2*	G	A	825	144.341	122.945	-36.580	1.00	46.32	A16S
ATOM	17303	O2*	G	A	825	143.105	123.476	-36.151	1.00	46.32	A16S
ATOM	17304	C3*	G	A	825	144.514	123.099	-38.080	1.00	46.32	A16S
ATOM	17305	O3*	G	A	825	144.005	124.335	-38.537	1.00	46.32	A16S
ATOM	17306	P	C	A	826	144.948	125.638	-38.521	1.00	43.30	A16S
ATOM	17307	O1P	C	A	826	144.134	126.739	-39.092	1.00	51.64	A16S
ATOM	17308	O2P	C	A	826	146.246	125.293	-39.145	1.00	51.64	A16S
ATOM	17309	O5*	C	A	826	145.235	125.905	-36.976	1.00	43.30	A16S
ATOM	17310	C5*	C	A	826	144.169	126.238	-36.086	1.00	43.30	A16S
ATOM	17311	C4*	C	A	826	144.688	126.387	-34.690	1.00	43.30	A16S
ATOM	17312	O4*	C	A	826	145.207	125.112	-34.241	1.00	43.30	A16S
ATOM	17313	C1*	C	A	826	146.308	125.324	-33.367	1.00	43.30	A16S
ATOM	17314	N1	C	A	826	147.491	124.590	-33.876	1.00	51.64	A16S
ATOM	17315	C6	C	A	826	147.532	124.125	-35.158	1.00	51.64	A16S
ATOM	17316	C2	C	A	826	148.579	124.376	-33.016	1.00	51.64	A16S
ATOM	17317	O2	C	A	826	148.527	124.806	-31.860	1.00	51.64	A16S
ATOM	17318	N3	C	A	826	149.655	123.714	-33.468	1.00	51.64	A16S



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ATOM	17319	C4	C	A 826	149.682	123.271	-34.720	1.00	51.64	A16S
ATOM	17320	N4	C	A 826	150.769	122.625	-35.128	1.00	51.64	A16S
ATOM	17321	C5	C	A 826	148.596	123.468	-35.614	1.00	51.64	A16S
ATOM	17322	C2*	C	A 826	146.525	126.834	-33.254	1.00	43.30	A16S
ATOM	17323	O2*	C	A 826	145.902	127.318	-32.080	1.00	43.30	A16S
ATOM	17324	C3*	C	A 826	145.850	127.344	-34.522	1.00	43.30	A16S
ATOM	17325	O3*	C	A 826	145.424	128.684	-34.377	1.00	43.30	A16S
ATOM	17326	P	U	A 827	146.445	129.877	-34.735	1.00	38.36	A16S
ATOM	17327	O1P	U	A 827	145.697	131.151	-34.560	1.00	53.91	A16S
ATOM	17328	O2P	U	A 827	147.072	129.575	-36.046	1.00	53.91	A16S
ATOM	17329	O5*	U	A 827	147.586	129.802	-33.622	1.00	38.36	A16S
ATOM	17330	C5*	U	A 827	147.391	130.389	-32.331	1.00	38.36	A16S
ATOM	17331	C4*	U	A 827	148.634	130.235	-31.489	1.00	38.36	A16S
ATOM	17332	O4*	U	A 827	148.961	128.827	-31.370	1.00	38.36	A16S
ATOM	17333	C1*	U	A 827	150.364	128.666	-31.272	1.00	38.36	A16S
ATOM	17334	N1	U	A 827	150.812	127.811	-32.387	1.00	53.91	A16S
ATOM	17335	C6	U	A 827	149.954	127.469	-33.397	1.00	53.91	A16S
ATOM	17336	C2	U	A 827	152.128	127.353	-32.387	1.00	53.91	A16S
ATOM	17337	O2	U	A 827	152.943	127.650	-31.526	1.00	53.91	A16S
ATOM	17338	N3	U	A 827	152.455	126.542	-33.443	1.00	53.91	A16S
ATOM	17339	C4	U	A 827	151.631	126.164	-34.478	1.00	53.91	A16S
ATOM	17340	O4	U	A 827	152.067	125.436	-35.364	1.00	53.91	A16S
ATOM	17341	C5	U	A 827	150.309	126.687	-34.411	1.00	53.91	A16S
ATOM	17342	C2*	U	A 827	150.980	130.065	-31.272	1.00	38.36	A16S
ATOM	17343	O2*	U	A 827	151.100	130.490	-29.933	1.00	38.36	A16S
ATOM	17344	C3*	U	A 827	149.916	130.872	-31.995	1.00	38.36	A16S
ATOM	17345	O3*	U	A 827	150.007	132.236	-31.641	1.00	38.36	A16S
ATOM	17346	P	A	A 828	150.288	133.331	-32.783	1.00	52.72	A16S
ATOM	17347	O1P	A	A 828	150.333	134.645	-32.094	1.00	64.24	A16S
ATOM	17348	O2P	A	A 828	149.347	133.123	-33.917	1.00	64.24	A16S
ATOM	17349	O5*	A	A 828	151.752	133.009	-33.319	1.00	52.72	A16S
ATOM	17350	C5*	A	A 828	152.904	133.308	-32.535	1.00	52.72	A16S
ATOM	17351	C4*	A	A 828	153.318	134.741	-32.746	1.00	52.72	A16S
ATOM	17352	O4*	A	A 828	154.325	135.052	-31.755	1.00	52.72	A16S
ATOM	17353	C1*	A	A 828	155.224	136.018	-32.263	1.00	52.72	A16S
ATOM	17354	N9	A	A 828	156.544	135.418	-32.329	1.00	64.24	A16S
ATOM	17355	C4	A	A 828	157.699	136.032	-31.952	1.00	64.24	A16S
ATOM	17356	N3	A	A 828	157.827	137.270	-31.459	1.00	64.24	A16S
ATOM	17357	C2	A	A 828	159.098	137.532	-31.188	1.00	64.24	A16S
ATOM	17358	N1	A	A 828	160.173	136.749	-31.338	1.00	64.24	A16S
ATOM	17359	C6	A	A 828	160.003	135.506	-31.837	1.00	64.24	A16S
ATOM	17360	N6	A	A 828	161.070	134.717	-31.969	1.00	64.24	A16S
ATOM	17361	C5	A	A 828	158.703	135.115	-32.176	1.00	64.24	A16S
ATOM	17362	N7	A	A 828	158.187	133.942	-32.703	1.00	64.24	A16S
ATOM	17363	C8	A	A 828	156.902	134.173	-32.771	1.00	64.24	A16S
ATOM	17364	C2*	A	A 828	154.753	136.394	-33.655	1.00	52.72	A16S
ATOM	17365	O2*	A	A 828	153.964	137.559	-33.534	1.00	52.72	A16S
ATOM	17366	C3*	A	A 828	153.984	135.138	-34.057	1.00	52.72	A16S
ATOM	17367	O3*	A	A 828	153.105	135.400	-35.136	1.00	52.72	A16S
ATOM	17368	P	G	A 829	153.725	135.656	-36.610	1.00	52.46	A16S
ATOM	17369	O1P	G	A 829	152.646	136.006	-37.569	1.00	59.00	A16S
ATOM	17370	O2P	G	A 829	154.634	134.534	-36.916	1.00	59.00	A16S
ATOM	17371	O5*	G	A 829	154.611	136.961	-36.436	1.00	52.46	A16S
ATOM	17372	C5*	G	A 829	155.713	137.220	-37.296	1.00	52.46	A16S
ATOM	17373	C4*	G	A 829	156.778	137.942	-36.532	1.00	52.46	A16S
ATOM	17374	O4*	G	A 829	157.111	137.150	-35.369	1.00	52.46	A16S
ATOM	17375	C1*	G	A 829	158.514	137.149	-35.177	1.00	52.46	A16S
ATOM	17376	N9	G	A 829	158.980	135.796	-35.473	1.00	59.00	A16S
ATOM	17377	C4	G	A 829	160.269	135.320	-35.385	1.00	59.00	A16S
ATOM	17378	N3	G	A 829	161.345	136.017	-34.983	1.00	59.00	A16S
ATOM	17379	C2	G	A 829	162.442	135.291	-35.023	1.00	59.00	A16S
ATOM	17380	N2	G	A 829	163.606	135.827	-34.652	1.00	59.00	A16S
ATOM	17381	N1	G	A 829	162.479	133.988	-35.427	1.00	59.00	A16S
ATOM	17382	C6	G	A 829	161.383	133.253	-35.845	1.00	59.00	A16S
ATOM	17383	O6	G	A 829	161.523	132.079	-36.183	1.00	59.00	A16S
ATOM	17384	C5	G	A 829	160.205	134.015	-35.810	1.00	59.00	A16S
ATOM	17385	N7	G	A 829	158.908	133.671	-36.153	1.00	59.00	A16S
ATOM	17386	C8	G	A 829	158.215	134.752	-35.929	1.00	59.00	A16S
ATOM	17387	C2*	G	A 829	159.103	138.163	-36.163	1.00	52.46	A16S
ATOM	17388	O2*	G	A 829	159.189	139.447	-35.578	1.00	52.46	A16S
ATOM	17389	C3*	G	A 829	158.080	138.114	-37.282	1.00	52.46	A16S
ATOM	17390	O3*	G	A 829	158.079	139.278	-38.083	1.00	52.46	A16S
ATOM	17391	P	G	A 830	158.694	139.208	-39.563	1.00	63.45	A16S
ATOM	17392	O1P	G	A 830	158.462	140.519	-40.199	1.00	56.26	A16S
ATOM	17393	O2P	G	A 830	158.203	137.977	-40.232	1.00	56.26	A16S
ATOM	17394	O5*	G	A 830	160.250	139.091	-39.287	1.00	63.45	A16S
ATOM	17395	C5*	G	A 830	160.888	140.109	-38.534	1.00	63.45	A16S



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ATOM	17396	C4*	G	A	830	162.319	139.755	-38.283	1.00	63.45	A16S
ATOM	17397	O4*	G	A	830	162.403	138.605	-37.404	1.00	63.45	A16S
ATOM	17398	C1*	G	A	830	163.567	137.860	-37.715	1.00	63.45	A16S
ATOM	17399	N9	G	A	830	163.159	136.529	-38.134	1.00	56.26	A16S
ATOM	17400	C4	G	A	830	163.968	135.426	-38.209	1.00	56.26	A16S
ATOM	17401	N3	G	A	830	165.264	135.374	-37.852	1.00	56.26	A16S
ATOM	17402	C2	G	A	830	165.767	134.169	-38.006	1.00	56.26	A16S
ATOM	17403	N2	G	A	830	167.024	133.928	-37.634	1.00	56.26	A16S
ATOM	17404	N1	G	A	830	165.072	133.108	-38.519	1.00	56.26	A16S
ATOM	17405	C6	G	A	830	163.744	133.144	-38.924	1.00	56.26	A16S
ATOM	17406	O6	G	A	830	163.216	132.129	-39.421	1.00	56.26	A16S
ATOM	17407	C5	G	A	830	163.173	134.423	-38.711	1.00	56.26	A16S
ATOM	17408	N7	G	A	830	161.880	134.881	-38.926	1.00	56.26	A16S
ATOM	17409	C8	G	A	830	161.918	136.134	-38.566	1.00	56.26	A16S
ATOM	17410	C2*	G	A	830	164.274	138.568	-38.871	1.00	63.45	A16S
ATOM	17411	O2*	G	A	830	165.285	139.412	-38.364	1.00	63.45	A16S
ATOM	17412	C3*	G	A	830	163.129	139.350	-39.497	1.00	63.45	A16S
ATOM	17413	O3*	G	A	830	163.569	140.457	-40.265	1.00	63.45	A16S
ATOM	17414	P	U	A	831	163.724	140.286	-41.860	1.00	63.97	A16S
ATOM	17415	O1P	U	A	831	164.121	141.611	-42.396	1.00	63.31	A16S
ATOM	17416	O2P	U	A	831	162.518	139.611	-42.422	1.00	63.31	A16S
ATOM	17417	O5*	U	A	831	164.951	139.273	-41.981	1.00	63.97	A16S
ATOM	17418	C5*	U	A	831	166.230	139.625	-41.432	1.00	63.97	A16S
ATOM	17419	C4*	U	A	831	167.236	138.537	-41.689	1.00	63.97	A16S
ATOM	17420	O4*	U	A	831	166.957	137.406	-40.836	1.00	63.97	A16S
ATOM	17421	C1*	U	A	831	167.302	136.212	-41.508	1.00	63.97	A16S
ATOM	17422	N1	U	A	831	166.087	135.391	-41.654	1.00	63.31	A16S
ATOM	17423	C6	U	A	831	164.840	135.955	-41.705	1.00	63.31	A16S
ATOM	17424	C2	U	A	831	166.243	134.019	-41.754	1.00	63.31	A16S
ATOM	17425	O2	U	A	831	167.319	133.466	-41.696	1.00	63.31	A16S
ATOM	17426	N3	U	A	831	165.091	133.314	-41.924	1.00	63.31	A16S
ATOM	17427	C4	U	A	831	163.823	133.809	-41.995	1.00	63.31	A16S
ATOM	17428	O4	U	A	831	162.878	133.021	-42.107	1.00	63.31	A16S
ATOM	17429	C5	U	A	831	163.732	135.231	-41.870	1.00	63.31	A16S
ATOM	17430	C2*	U	A	831	167.910	136.606	-42.856	1.00	63.97	A16S
ATOM	17431	O2*	U	A	831	169.308	136.764	-42.736	1.00	63.97	A16S
ATOM	17432	C3*	U	A	831	167.266	137.956	-43.090	1.00	63.97	A16S
ATOM	17433	O3*	U	A	831	168.021	138.732	-44.003	1.00	63.97	A16S
ATOM	17434	P	C	A	832	167.780	138.545	-45.582	1.00	58.48	A16S
ATOM	17435	O1P	C	A	832	168.517	139.666	-46.212	1.00	72.46	A16S
ATOM	17436	O2P	C	A	832	166.337	138.374	-45.882	1.00	72.46	A16S
ATOM	17437	O5*	C	A	832	168.507	137.158	-45.892	1.00	58.48	A16S
ATOM	17438	C5*	C	A	832	169.937	137.058	-45.785	1.00	58.48	A16S
ATOM	17439	C4*	C	A	832	170.416	135.662	-46.113	1.00	58.48	A16S
ATOM	17440	O4*	C	A	832	170.061	134.756	-45.039	1.00	58.48	A16S
ATOM	17441	C1*	C	A	832	169.822	133.467	-45.574	1.00	58.48	A16S
ATOM	17442	N1	C	A	832	168.406	133.132	-45.364	1.00	72.46	A16S
ATOM	17443	C6	C	A	832	167.471	134.116	-45.202	1.00	72.46	A16S
ATOM	17444	C2	C	A	832	168.022	131.781	-45.363	1.00	72.46	A16S
ATOM	17445	O2	C	A	832	168.896	130.900	-45.480	1.00	72.46	A16S
ATOM	17446	N3	C	A	832	166.715	131.473	-45.234	1.00	72.46	A16S
ATOM	17447	C4	C	A	832	165.813	132.444	-45.095	1.00	72.46	A16S
ATOM	17448	N4	C	A	832	164.535	132.096	-44.980	1.00	72.46	A16S
ATOM	17449	C5	C	A	832	166.179	133.819	-45.068	1.00	72.46	A16S
ATOM	17450	C2*	C	A	832	170.100	133.530	-47.076	1.00	58.48	A16S
ATOM	17451	O2*	C	A	832	171.427	133.135	-47.340	1.00	58.48	A16S
ATOM	17452	C3*	C	A	832	169.872	135.002	-47.370	1.00	58.48	A16S
ATOM	17453	O3*	C	A	832	170.541	135.380	-48.563	1.00	58.48	A16S
ATOM	17454	P	U	A	833	169.790	135.194	-49.981	1.00	70.48	A16S
ATOM	17455	O1P	U	A	833	170.750	135.603	-51.037	1.00	66.17	A16S
ATOM	17456	O2P	U	A	833	168.437	135.837	-49.926	1.00	66.17	A16S
ATOM	17457	O5*	U	A	833	169.581	133.618	-50.111	1.00	70.48	A16S
ATOM	17458	C5*	U	A	833	170.708	132.739	-50.202	1.00	70.48	A16S
ATOM	17459	C4*	U	A	833	170.258	131.303	-50.197	1.00	70.48	A16S
ATOM	17460	O4*	U	A	833	169.538	131.024	-48.969	1.00	70.48	A16S
ATOM	17461	C1*	U	A	833	168.517	130.068	-49.221	1.00	70.48	A16S
ATOM	17462	N1	U	A	833	167.214	130.678	-48.921	1.00	66.17	A16S
ATOM	17463	C6	U	A	833	167.098	132.030	-48.696	1.00	66.17	A16S
ATOM	17464	C2	U	A	833	166.099	129.847	-48.894	1.00	66.17	A16S
ATOM	17465	O2	U	A	833	166.159	128.636	-49.055	1.00	66.17	A16S
ATOM	17466	N3	U	A	833	164.914	130.491	-48.668	1.00	66.17	A16S
ATOM	17467	C4	U	A	833	164.730	131.844	-48.457	1.00	66.17	A16S
ATOM	17468	O4	U	A	833	163.586	132.285	-48.307	1.00	66.17	A16S
ATOM	17469	C5	U	A	833	165.931	132.622	-48.471	1.00	66.17	A16S
ATOM	17470	C2*	U	A	833	168.593	129.679	-50.697	1.00	70.48	A16S
ATOM	17471	O2*	U	A	833	169.290	128.453	-50.825	1.00	70.48	A16S
ATOM	17472	C3*	U	A	833	169.293	130.896	-51.297	1.00	70.48	A16S



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ATOM	17473	O3*	U	A	833	169.956	130.600	-52.516	1.00	70.48	A16S
ATOM	17474	P	C	A	834	169.207	130.881	-53.907	1.00	48.62	A16S
ATOM	17475	O1P	C	A	834	170.268	131.108	-54.928	1.00	68.25	A16S
ATOM	17476	O2P	C	A	834	168.172	131.928	-53.685	1.00	68.25	A16S
ATOM	17477	O5*	C	A	834	168.428	129.522	-54.214	1.00	48.62	A16S
ATOM	17478	C5*	C	A	834	169.143	128.300	-54.479	1.00	48.62	A16S
ATOM	17479	C4*	C	A	834	168.182	127.146	-54.621	1.00	48.62	A16S
ATOM	17480	O4*	C	A	834	167.562	126.855	-53.343	1.00	48.62	A16S
ATOM	17481	C1*	C	A	834	166.207	126.490	-53.543	1.00	48.62	A16S
ATOM	17482	N1	C	A	834	165.355	127.477	-52.860	1.00	68.25	A16S
ATOM	17483	C6	C	A	834	165.823	128.727	-52.574	1.00	68.25	A16S
ATOM	17484	C2	C	A	834	164.041	127.124	-52.531	1.00	68.25	A16S
ATOM	17485	O2	C	A	834	163.660	125.960	-52.728	1.00	68.25	A16S
ATOM	17486	N3	C	A	834	163.225	128.054	-51.991	1.00	68.25	A16S
ATOM	17487	C4	C	A	834	163.685	129.279	-51.742	1.00	68.25	A16S
ATOM	17488	N4	C	A	834	162.838	130.172	-51.231	1.00	68.25	A16S
ATOM	17489	C5	C	A	834	165.032	129.648	-52.015	1.00	68.25	A16S
ATOM	17490	C2*	C	A	834	165.940	126.488	-55.052	1.00	48.62	A16S
ATOM	17491	O2*	C	A	834	166.031	125.192	-55.617	1.00	48.62	A16S
ATOM	17492	C3*	C	A	834	167.023	127.422	-55.550	1.00	48.62	A16S
ATOM	17493	O3*	C	A	834	167.340	127.185	-56.895	1.00	48.62	A16S
ATOM	17494	P	U	A	835	166.707	128.139	-58.009	1.00	52.19	A16S
ATOM	17495	O1P	U	A	835	167.407	127.872	-59.285	1.00	66.05	A16S
ATOM	17496	O2P	U	A	835	166.688	129.523	-57.453	1.00	66.05	A16S
ATOM	17497	O5*	U	A	835	165.208	127.623	-58.127	1.00	52.19	A16S
ATOM	17498	C5*	U	A	835	164.932	126.274	-58.518	1.00	52.19	A16S
ATOM	17499	C4*	U	A	835	163.483	125.946	-58.274	1.00	52.19	A16S
ATOM	17500	O4*	U	A	835	163.209	125.974	-56.848	1.00	52.19	A16S
ATOM	17501	C1*	U	A	835	161.858	126.363	-56.627	1.00	52.19	A16S
ATOM	17502	N1	U	A	835	161.830	127.592	-55.818	1.00	66.05	A16S
ATOM	17503	C6	U	A	835	162.978	128.262	-55.467	1.00	66.05	A16S
ATOM	17504	C2	U	A	835	160.588	128.072	-55.440	1.00	66.05	A16S
ATOM	17505	O2	U	A	835	159.550	127.488	-55.687	1.00	66.05	A16S
ATOM	17506	N3	U	A	835	160.605	129.259	-54.757	1.00	66.05	A16S
ATOM	17507	C4	U	A	835	161.710	129.998	-54.404	1.00	66.05	A16S
ATOM	17508	O4	U	A	835	161.552	131.107	-53.884	1.00	66.05	A16S
ATOM	17509	C5	U	A	835	162.962	129.416	-54.790	1.00	66.05	A16S
ATOM	17510	C2*	U	A	835	161.226	126.614	-57.993	1.00	52.19	A16S
ATOM	17511	O2*	U	A	835	160.486	125.475	-58.407	1.00	52.19	A16S
ATOM	17512	C3*	U	A	835	162.456	126.906	-58.843	1.00	52.19	A16S
ATOM	17513	O3*	U	A	835	162.197	126.745	-60.217	1.00	52.19	A16S
ATOM	17514	P	G	A	836	161.559	127.969	-61.026	1.00	78.69	A16S
ATOM	17515	O1P	G	A	836	161.547	127.577	-62.459	1.00	69.00	A16S
ATOM	17516	O2P	G	A	836	162.323	129.167	-60.596	1.00	69.00	A16S
ATOM	17517	O5*	G	A	836	160.055	128.092	-60.483	1.00	78.69	A16S
ATOM	17518	C5*	G	A	836	159.057	127.120	-60.875	1.00	78.69	A16S
ATOM	17519	C4*	G	A	836	157.650	127.491	-60.400	1.00	78.69	A16S
ATOM	17520	O4*	G	A	836	157.533	127.368	-58.957	1.00	78.69	A16S
ATOM	17521	C1*	G	A	836	156.442	128.159	-58.507	1.00	78.69	A16S
ATOM	17522	N9	G	A	836	156.924	129.181	-57.585	1.00	69.00	A16S
ATOM	17523	C4	G	A	836	156.153	129.890	-56.691	1.00	69.00	A16S
ATOM	17524	N3	G	A	836	154.831	129.721	-56.475	1.00	69.00	A16S
ATOM	17525	C2	G	A	836	154.364	130.567	-55.579	1.00	69.00	A16S
ATOM	17526	N2	G	A	836	153.065	130.523	-55.246	1.00	69.00	A16S
ATOM	17527	N1	G	A	836	155.134	131.513	-54.944	1.00	69.00	A16S
ATOM	17528	C6	G	A	836	156.498	131.704	-55.146	1.00	69.00	A16S
ATOM	17529	O6	G	A	836	157.105	132.586	-54.515	1.00	69.00	A16S
ATOM	17530	C5	G	A	836	157.012	130.795	-56.104	1.00	69.00	A16S
ATOM	17531	N7	G	A	836	158.304	130.637	-56.592	1.00	69.00	A16S
ATOM	17532	C8	G	A	836	158.205	129.666	-57.461	1.00	69.00	A16S
ATOM	17533	C2*	G	A	836	155.838	128.847	-59.728	1.00	78.69	A16S
ATOM	17534	O2*	G	A	836	154.758	128.077	-60.222	1.00	78.69	A16S
ATOM	17535	C3*	G	A	836	157.010	128.847	-60.699	1.00	78.69	A16S
ATOM	17536	O3*	G	A	836	156.477	129.000	-62.008	1.00	78.69	A16S
ATOM	17537	P	G	A	837	156.201	130.484	-62.586	1.00	73.38	A16S
ATOM	17538	O1P	G	A	837	155.673	130.247	-63.953	1.00	76.81	A16S
ATOM	17539	O2P	G	A	837	157.398	131.343	-62.399	1.00	76.81	A16S
ATOM	17540	O5*	G	A	837	155.049	131.109	-61.672	1.00	73.38	A16S
ATOM	17541	C5*	G	A	837	153.663	130.803	-61.924	1.00	73.38	A16S
ATOM	17542	C4*	G	A	837	152.748	131.608	-61.023	1.00	73.38	A16S
ATOM	17543	O4*	G	A	837	153.091	131.372	-59.635	1.00	73.38	A16S
ATOM	17544	C1*	G	A	837	152.780	132.518	-58.868	1.00	73.38	A16S
ATOM	17545	N9	G	A	837	154.002	133.022	-58.258	1.00	76.81	A16S
ATOM	17546	C4	G	A	837	154.070	133.874	-57.189	1.00	76.81	A16S
ATOM	17547	N3	G	A	837	153.019	134.357	-56.495	1.00	76.81	A16S
ATOM	17548	C2	G	A	837	153.397	135.179	-55.529	1.00	76.81	A16S
ATOM	17549	N2	G	A	837	152.481	135.747	-54.733	1.00	76.81	A16S



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ATOM	17550	N1	G	A 837	154.702	135.503	-55.268	1.00	76.81	A16S
ATOM	17551	C6	G	A 837	155.802	135.014	-55.965	1.00	76.81	A16S
ATOM	17552	O6	G	A 837	156.947	135.368	-55.638	1.00	76.81	A16S
ATOM	17553	C5	G	A 837	155.407	134.127	-57.008	1.00	76.81	A16S
ATOM	17554	N7	G	A 837	156.169	133.432	-57.935	1.00	76.81	A16S
ATOM	17555	C8	G	A 837	155.293	132.783	-58.649	1.00	76.81	A16S
ATOM	17556	C2*	G	A 837	152.199	133.568	-59.811	1.00	73.38	A16S
ATOM	17557	O2*	G	A 837	150.787	133.527	-59.741	1.00	73.38	A16S
ATOM	17558	C3*	G	A 837	152.766	133.122	-61.153	1.00	73.38	A16S
ATOM	17559	O3*	G	A 837	151.969	133.586	-62.237	1.00	73.38	A16S
ATOM	17560	P	G	A 838	152.342	134.972	-62.961	1.00104.27		A16S
ATOM	17561	O1P	G	A 838	151.485	135.042	-64.176	1.00	92.45	A16S
ATOM	17562	O2P	G	A 838	153.813	135.047	-63.103	1.00	92.45	A16S
ATOM	17563	O5*	G	A 838	151.894	136.095	-61.919	1.00104.27		A16S
ATOM	17564	C5*	G	A 838	150.503	136.283	-61.591	1.00104.27		A16S
ATOM	17565	C4*	G	A 838	150.360	137.187	-60.391	1.00104.27		A16S
ATOM	17566	O4*	G	A 838	151.080	136.605	-59.278	1.00104.27		A16S
ATOM	17567	C1*	G	A 838	151.662	137.630	-58.494	1.00104.27		A16S
ATOM	17568	N9	G	A 838	153.106	137.448	-58.508	1.00	92.45	A16S
ATOM	17569	C4	G	A 838	154.013	138.090	-57.710	1.00	92.45	A16S
ATOM	17570	N3	G	A 838	153.726	139.009	-56.772	1.00	92.45	A16S
ATOM	17571	C2	G	A 838	154.817	139.450	-56.163	1.00	92.45	A16S
ATOM	17572	N2	G	A 838	154.715	140.374	-55.191	1.00	92.45	A16S
ATOM	17573	N1	G	A 838	156.090	139.018	-56.454	1.00	92.45	A16S
ATOM	17574	C6	G	A 838	156.407	138.064	-57.416	1.00	92.45	A16S
ATOM	17575	O6	G	A 838	157.589	137.728	-57.592	1.00	92.45	A16S
ATOM	17576	C5	G	A 838	155.244	137.591	-58.080	1.00	92.45	A16S
ATOM	17577	N7	G	A 838	155.112	136.657	-59.097	1.00	92.45	A16S
ATOM	17578	C8	G	A 838	153.828	136.606	-59.319	1.00	92.45	A16S
ATOM	17579	C2*	G	A 838	151.252	138.972	-59.097	1.00104.27		A16S
ATOM	17580	O2*	G	A 838	150.127	139.473	-58.404	1.00104.27		A16S
ATOM	17581	C3*	G	A 838	150.940	138.585	-60.538	1.00104.27		A16S
ATOM	17582	O3*	G	A 838	149.991	139.485	-61.097	1.00104.27		A16S
ATOM	17583	P	U	A 839	150.290	140.198	-62.508	1.00137.19		A16S
ATOM	17584	O1P	U	A 839	149.112	141.056	-62.803	1.00157.00		A16S
ATOM	17585	O2P	U	A 839	150.701	139.153	-63.481	1.00157.00		A16S
ATOM	17586	O5*	U	A 839	151.537	141.160	-62.259	1.00137.19		A16S
ATOM	17587	C5*	U	A 839	151.997	141.474	-60.938	1.00137.19		A16S
ATOM	17588	C4*	U	A 839	151.466	142.814	-60.505	1.00137.19		A16S
ATOM	17589	O4*	U	A 839	150.044	142.703	-60.253	1.00137.19		A16S
ATOM	17590	C1*	U	A 839	149.675	143.649	-59.267	1.00137.19		A16S
ATOM	17591	N1	U	A 839	148.662	143.062	-58.363	1.00157.00		A16S
ATOM	17592	C6	U	A 839	147.630	142.306	-58.888	1.00157.00		A16S
ATOM	17593	C2	U	A 839	148.731	143.308	-56.979	1.00157.00		A16S
ATOM	17594	O2	U	A 839	149.637	143.930	-56.440	1.00157.00		A16S
ATOM	17595	N3	U	A 839	147.688	142.790	-56.249	1.00157.00		A16S
ATOM	17596	C4	U	A 839	146.616	142.061	-56.724	1.00157.00		A16S
ATOM	17597	O4	U	A 839	145.714	141.740	-55.947	1.00157.00		A16S
ATOM	17598	C5	U	A 839	146.636	141.814	-58.138	1.00157.00		A16S
ATOM	17599	C2*	U	A 839	150.948	144.276	-58.682	1.00137.19		A16S
ATOM	17600	O2*	U	A 839	151.096	145.602	-59.145	1.00137.19		A16S
ATOM	17601	C3*	U	A 839	152.043	143.346	-59.201	1.00137.19		A16S
ATOM	17602	O3*	U	A 839	153.249	144.068	-59.467	1.00137.19		A16S
ATOM	17603	P	C	A 840	154.144	144.632	-58.252	1.00196.94		A16S
ATOM	17604	O1P	C	A 840	153.237	145.045	-57.147	1.00149.82		A16S
ATOM	17605	O2P	C	A 840	155.071	145.625	-58.849	1.00149.82		A16S
ATOM	17606	O5*	C	A 840	154.994	143.373	-57.766	1.00196.94		A16S
ATOM	17607	C5*	C	A 840	155.939	143.479	-56.673	1.00196.94		A16S
ATOM	17608	C4*	C	A 840	157.291	142.949	-57.101	1.00196.94		A16S
ATOM	17609	O4*	C	A 840	157.122	141.558	-57.469	1.00196.94		A16S
ATOM	17610	C1*	C	A 840	157.887	141.267	-58.620	1.00196.94		A16S
ATOM	17611	N1	C	A 840	156.991	140.662	-59.624	1.00149.82		A16S
ATOM	17612	C6	C	A 840	155.809	141.263	-59.957	1.00149.82		A16S
ATOM	17613	C2	C	A 840	157.356	139.432	-60.220	1.00149.82		A16S
ATOM	17614	O2	C	A 840	158.456	138.917	-59.938	1.00149.82		A16S
ATOM	17615	N3	C	A 840	156.498	138.841	-61.089	1.00149.82		A16S
ATOM	17616	C4	C	A 840	155.332	139.428	-61.380	1.00149.82		A16S
ATOM	17617	N4	C	A 840	154.502	138.796	-62.221	1.00149.82		A16S
ATOM	17618	C5	C	A 840	154.959	140.687	-60.819	1.00149.82		A16S
ATOM	17619	C2*	C	A 840	158.645	142.532	-59.038	1.00196.94		A16S
ATOM	17620	O2*	C	A 840	159.989	142.442	-58.604	1.00196.94		A16S
ATOM	17621	C3*	C	A 840	157.860	143.644	-58.336	1.00196.94		A16S
ATOM	17622	O3*	C	A 840	158.779	144.727	-58.053	1.00196.94		A16S
ATOM	17623	P	U	A 841	158.704	145.561	-56.665	1.00198.94		A16S
ATOM	17624	O1P	U	A 841	157.295	145.767	-56.247	1.00198.94		A16S
ATOM	17625	O2P	U	A 841	159.592	146.742	-56.827	1.00198.94		A16S
ATOM	17626	O5*	U	A 841	159.402	144.593	-55.609	1.00198.94		A16S



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ATOM	17627	C5*	U	A	841	159.650	145.019	-54.257	1.00198.94	A16S
ATOM	17628	C4*	U	A	841	161.116	145.337	-54.074	1.00198.94	A16S
ATOM	17629	O4*	U	A	841	161.453	146.482	-54.902	1.00198.94	A16S
ATOM	17630	C1*	U	A	841	162.376	147.318	-54.218	1.00198.94	A16S
ATOM	17631	N1	U	A	841	161.750	148.636	-54.000	1.00198.94	A16S
ATOM	17632	C6	U	A	841	160.388	148.822	-54.165	1.00198.94	A16S
ATOM	17633	C2	U	A	841	162.570	149.696	-53.610	1.00198.94	A16S
ATOM	17634	O2	U	A	841	163.781	149.588	-53.452	1.00198.94	A16S
ATOM	17635	N3	U	A	841	161.917	150.889	-53.408	1.00198.94	A16S
ATOM	17636	C4	U	A	841	160.562	151.135	-53.550	1.00198.94	A16S
ATOM	17637	O4	U	A	841	160.122	152.261	-53.303	1.00198.94	A16S
ATOM	17638	C5	U	A	841	159.786	150.000	-53.958	1.00198.94	A16S
ATOM	17639	C2*	U	A	841	162.737	146.629	-52.902	1.00198.94	A16S
ATOM	17640	O2*	U	A	841	163.928	145.880	-53.054	1.00198.94	A16S
ATOM	17641	C3*	U	A	841	161.512	145.757	-52.667	1.00198.94	A16S
ATOM	17642	O3*	U	A	841	161.822	144.647	-51.840	1.00198.94	A16S
ATOM	17643	P	C	A	848	161.742	144.802	-50.241	1.00171.93	A16S
ATOM	17644	O1P	C	A	848	161.633	146.259	-49.937	1.00142.83	A16S
ATOM	17645	O2P	C	A	848	162.857	144.013	-49.649	1.00142.83	A16S
ATOM	17646	O5*	C	A	848	160.362	144.100	-49.858	1.00171.93	A16S
ATOM	17647	C5*	C	A	848	159.185	144.885	-49.595	1.00171.93	A16S
ATOM	17648	C4*	C	A	848	157.959	144.220	-50.175	1.00171.93	A16S
ATOM	17649	O4*	C	A	848	158.096	144.101	-51.619	1.00171.93	A16S
ATOM	17650	C1*	C	A	848	157.423	142.934	-52.069	1.00171.93	A16S
ATOM	17651	N1	C	A	848	158.393	142.032	-52.727	1.00142.83	A16S
ATOM	17652	C6	C	A	848	159.628	141.811	-52.180	1.00142.83	A16S
ATOM	17653	C2	C	A	848	158.024	141.383	-53.923	1.00142.83	A16S
ATOM	17654	O2	C	A	848	156.905	141.601	-54.412	1.00142.83	A16S
ATOM	17655	N3	C	A	848	158.899	140.535	-54.510	1.00142.83	A16S
ATOM	17656	C4	C	A	848	160.098	140.326	-53.959	1.00142.83	A16S
ATOM	17657	N4	C	A	848	160.931	139.481	-54.571	1.00142.83	A16S
ATOM	17658	C5	C	A	848	160.500	140.973	-52.755	1.00142.83	A16S
ATOM	17659	C2*	C	A	848	156.784	142.277	-50.847	1.00171.93	A16S
ATOM	17660	O2*	C	A	848	155.448	142.721	-50.736	1.00171.93	A16S
ATOM	17661	C3*	C	A	848	157.663	142.803	-49.719	1.00171.93	A16S
ATOM	17662	O3*	C	A	848	157.006	142.745	-48.463	1.00171.93	A16S
ATOM	17663	P	C	A	849	156.775	141.315	-47.761	1.00123.86	A16S
ATOM	17664	O1P	C	A	849	156.353	141.554	-46.356	1.00 94.38	A16S
ATOM	17665	O2P	C	A	849	157.963	140.456	-48.029	1.00 94.38	A16S
ATOM	17666	O5*	C	A	849	155.537	140.707	-48.563	1.00123.86	A16S
ATOM	17667	C5*	C	A	849	154.262	141.385	-48.581	1.00123.86	A16S
ATOM	17668	C4*	C	A	849	153.275	140.639	-49.453	1.00123.86	A16S
ATOM	17669	O4*	C	A	849	153.676	140.709	-50.844	1.00123.86	A16S
ATOM	17670	C1*	C	A	849	153.342	139.497	-51.500	1.00123.86	A16S
ATOM	17671	N1	C	A	849	154.573	138.918	-52.079	1.00 94.38	A16S
ATOM	17672	C6	C	A	849	155.785	139.083	-51.466	1.00 94.38	A16S
ATOM	17673	C2	C	A	849	154.481	138.195	-53.275	1.00 94.38	A16S
ATOM	17674	O2	C	A	849	153.371	138.057	-53.817	1.00 94.38	A16S
ATOM	17675	N3	C	A	849	155.605	137.673	-53.815	1.00 94.38	A16S
ATOM	17676	C4	C	A	849	156.780	137.852	-53.214	1.00 94.38	A16S
ATOM	17677	N4	C	A	849	157.859	137.333	-53.792	1.00 94.38	A16S
ATOM	17678	C5	C	A	849	156.901	138.574	-51.996	1.00 94.38	A16S
ATOM	17679	C2*	C	A	849	152.652	138.585	-50.485	1.00123.86	A16S
ATOM	17680	O2*	C	A	849	151.253	138.685	-50.641	1.00123.86	A16S
ATOM	17681	C3*	C	A	849	153.152	139.157	-49.165	1.00123.86	A16S
ATOM	17682	O3*	C	A	849	152.266	138.917	-48.089	1.00123.86	A16S
ATOM	17683	P	U	A	850	152.439	137.583	-47.224	1.00 82.32	A16S
ATOM	17684	O1P	U	A	850	151.458	137.587	-46.101	1.00 95.85	A16S
ATOM	17685	O2P	U	A	850	153.888	137.433	-46.929	1.00 95.85	A16S
ATOM	17686	O5*	U	A	850	152.027	136.445	-48.258	1.00 82.32	A16S
ATOM	17687	C5*	U	A	850	150.735	136.463	-48.895	1.00 82.32	A16S
ATOM	17688	C4*	U	A	850	150.671	135.429	-49.992	1.00 82.32	A16S
ATOM	17689	O4*	U	A	850	151.493	135.832	-51.117	1.00 82.32	A16S
ATOM	17690	C1*	U	A	850	152.012	134.677	-51.753	1.00 82.32	A16S
ATOM	17691	N1	U	A	850	153.481	134.722	-51.731	1.00 95.85	A16S
ATOM	17692	C6	U	A	850	154.187	135.621	-50.966	1.00 95.85	A16S
ATOM	17693	C2	U	A	850	154.139	133.789	-52.513	1.00 95.85	A16S
ATOM	17694	O2	U	A	850	153.549	132.984	-53.219	1.00 95.85	A16S
ATOM	17695	N3	U	A	850	155.506	133.828	-52.444	1.00 95.85	A16S
ATOM	17696	C4	U	A	850	156.271	134.683	-51.702	1.00 95.85	A16S
ATOM	17697	O4	U	A	850	157.497	134.583	-51.755	1.00 95.85	A16S
ATOM	17698	C5	U	A	850	155.525	135.633	-50.925	1.00 95.85	A16S
ATOM	17699	C2*	U	A	850	151.512	133.449	-50.990	1.00 82.32	A16S
ATOM	17700	O2*	U	A	850	150.389	132.864	-51.619	1.00 82.32	A16S
ATOM	17701	C3*	U	A	850	151.188	134.046	-49.635	1.00 82.32	A16S
ATOM	17702	O3*	U	A	850	150.257	133.247	-48.945	1.00 82.32	A16S
ATOM	17703	P	G	A	851	150.797	132.078	-47.992	1.00 77.31	A16S



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ATOM	17704	O1P	G	A	851	149.619	131.501	-47.287	1.00	65.27	A16S
ATOM	17705	O2P	G	A	851	151.950	132.599	-47.203	1.00	65.27	A16S
ATOM	17706	O5*	G	A	851	151.355	130.978	-49.001	1.00	77.31	A16S
ATOM	17707	C5*	G	A	851	150.439	130.136	-49.700	1.00	77.31	A16S
ATOM	17708	C4*	G	A	851	151.155	129.042	-50.456	1.00	77.31	A16S
ATOM	17709	O4*	G	A	851	151.789	129.548	-51.655	1.00	77.31	A16S
ATOM	17710	C1*	G	A	851	152.776	128.629	-52.073	1.00	77.31	A16S
ATOM	17711	N9	G	A	851	154.056	129.314	-52.206	1.00	65.27	A16S
ATOM	17712	C4	G	A	851	155.176	128.847	-52.874	1.00	65.27	A16S
ATOM	17713	N3	G	A	851	155.269	127.692	-53.566	1.00	65.27	A16S
ATOM	17714	C2	G	A	851	156.483	127.507	-54.046	1.00	65.27	A16S
ATOM	17715	N2	G	A	851	156.760	126.405	-54.747	1.00	65.27	A16S
ATOM	17716	N1	G	A	851	157.519	128.385	-53.871	1.00	65.27	A16S
ATOM	17717	C6	G	A	851	157.444	129.576	-53.168	1.00	65.27	A16S
ATOM	17718	O6	G	A	851	158.440	130.295	-53.065	1.00	65.27	A16S
ATOM	17719	C5	G	A	851	156.153	129.790	-52.646	1.00	65.27	A16S
ATOM	17720	N7	G	A	851	155.656	130.844	-51.892	1.00	65.27	A16S
ATOM	17721	C8	G	A	851	154.410	130.523	-51.661	1.00	65.27	A16S
ATOM	17722	C2*	G	A	851	152.848	127.532	-51.013	1.00	77.31	A16S
ATOM	17723	O2*	G	A	851	152.018	126.476	-51.446	1.00	77.31	A16S
ATOM	17724	C3*	G	A	851	152.235	128.208	-49.795	1.00	77.31	A16S
ATOM	17725	O3*	G	A	851	151.691	127.211	-48.936	1.00	77.31	A16S
ATOM	17726	P	G	A	852	152.668	126.344	-47.987	1.00	58.10	A16S
ATOM	17727	O1P	G	A	852	151.819	125.333	-47.319	1.00	60.04	A16S
ATOM	17728	O2P	G	A	852	153.518	127.254	-47.164	1.00	60.04	A16S
ATOM	17729	O5*	G	A	852	153.620	125.545	-48.988	1.00	58.10	A16S
ATOM	17730	C5*	G	A	852	153.146	124.370	-49.677	1.00	58.10	A16S
ATOM	17731	C4*	G	A	852	154.278	123.678	-50.408	1.00	58.10	A16S
ATOM	17732	O4*	G	A	852	154.767	124.511	-51.490	1.00	58.10	A16S
ATOM	17733	C1*	G	A	852	156.165	124.319	-51.650	1.00	58.10	A16S
ATOM	17734	N9	G	A	852	156.838	125.578	-51.337	1.00	60.04	A16S
ATOM	17735	C4	G	A	852	158.143	125.908	-51.609	1.00	60.04	A16S
ATOM	17736	N3	G	A	852	159.057	125.115	-52.199	1.00	60.04	A16S
ATOM	17737	C2	G	A	852	160.235	125.721	-52.317	1.00	60.04	A16S
ATOM	17738	N2	G	A	852	161.278	125.070	-52.852	1.00	60.04	A16S
ATOM	17739	N1	G	A	852	160.483	127.004	-51.912	1.00	60.04	A16S
ATOM	17740	C6	G	A	852	159.556	127.838	-51.305	1.00	60.04	A16S
ATOM	17741	O6	G	A	852	159.884	128.985	-50.972	1.00	60.04	A16S
ATOM	17742	C5	G	A	852	158.297	127.196	-51.152	1.00	60.04	A16S
ATOM	17743	N7	G	A	852	157.121	127.661	-50.588	1.00	60.04	A16S
ATOM	17744	C8	G	A	852	156.287	126.669	-50.717	1.00	60.04	A16S
ATOM	17745	C2*	G	A	852	156.578	123.216	-50.682	1.00	58.10	A16S
ATOM	17746	O2*	G	A	852	156.490	121.964	-51.335	1.00	58.10	A16S
ATOM	17747	C3*	G	A	852	155.520	123.357	-49.603	1.00	58.10	A16S
ATOM	17748	O3*	G	A	852	155.402	122.165	-48.871	1.00	58.10	A16S
ATOM	17749	P	G	A	853	156.267	121.985	-47.537	1.00	55.54	A16S
ATOM	17750	O1P	G	A	853	155.914	120.631	-47.020	1.00	56.29	A16S
ATOM	17751	O2P	G	A	853	156.070	123.178	-46.677	1.00	56.29	A16S
ATOM	17752	O5*	G	A	853	157.793	122.050	-48.012	1.00	55.54	A16S
ATOM	17753	C5*	G	A	853	158.402	120.937	-48.680	1.00	55.54	A16S
ATOM	17754	C4*	G	A	853	159.868	121.202	-48.971	1.00	55.54	A16S
ATOM	17755	O4*	G	A	853	160.022	122.286	-49.921	1.00	55.54	A16S
ATOM	17756	C1*	G	A	853	161.308	122.858	-49.775	1.00	55.54	A16S
ATOM	17757	N9	G	A	853	161.163	124.276	-49.491	1.00	56.29	A16S
ATOM	17758	C4	G	A	853	162.176	125.212	-49.423	1.00	56.29	A16S
ATOM	17759	N3	G	A	853	163.487	124.992	-49.670	1.00	56.29	A16S
ATOM	17760	C2	G	A	853	164.218	126.082	-49.480	1.00	56.29	A16S
ATOM	17761	N2	G	A	853	165.536	126.044	-49.700	1.00	56.29	A16S
ATOM	17762	N1	G	A	853	163.708	127.289	-49.064	1.00	56.29	A16S
ATOM	17763	C6	G	A	853	162.361	127.540	-48.796	1.00	56.29	A16S
ATOM	17764	O6	G	A	853	161.993	128.673	-48.398	1.00	56.29	A16S
ATOM	17765	C5	G	A	853	161.563	126.378	-49.020	1.00	56.29	A16S
ATOM	17766	N7	G	A	853	160.192	126.191	-48.887	1.00	56.29	A16S
ATOM	17767	C8	G	A	853	160.003	124.935	-49.184	1.00	56.29	A16S
ATOM	17768	C2*	G	A	853	161.998	122.156	-48.606	1.00	55.54	A16S
ATOM	17769	O2*	G	A	853	162.867	121.173	-49.132	1.00	55.54	A16S
ATOM	17770	C3*	G	A	853	160.816	121.567	-47.838	1.00	55.54	A16S
ATOM	17771	O3*	G	A	853	161.226	120.426	-47.079	1.00	55.54	A16S
ATOM	17772	P	G	A	854	161.885	120.626	-45.620	1.00	49.97	A16S
ATOM	17773	O1P	G	A	854	162.129	119.276	-45.035	1.00	59.05	A16S
ATOM	17774	O2P	G	A	854	161.057	121.610	-44.873	1.00	59.05	A16S
ATOM	17775	O5*	G	A	854	163.304	121.270	-45.941	1.00	49.97	A16S
ATOM	17776	C5*	G	A	854	164.223	120.563	-46.771	1.00	49.97	A16S
ATOM	17777	C4*	G	A	854	165.475	121.369	-46.999	1.00	49.97	A16S
ATOM	17778	O4*	G	A	854	165.178	122.616	-47.682	1.00	49.97	A16S
ATOM	17779	C1*	G	A	854	166.126	123.605	-47.303	1.00	49.97	A16S
ATOM	17780	N9	G	A	854	165.408	124.783	-46.827	1.00	59.05	A16S



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ATOM	17781	C4	G	A	854	165.943	126.019	-46.545	1.00	59.05	A16S
ATOM	17782	N3	G	A	854	167.246	126.363	-46.626	1.00	59.05	A16S
ATOM	17783	C2	G	A	854	167.446	127.633	-46.294	1.00	59.05	A16S
ATOM	17784	N2	G	A	854	168.686	128.140	-46.292	1.00	59.05	A16S
ATOM	17785	N1	G	A	854	166.447	128.500	-45.931	1.00	59.05	A16S
ATOM	17786	C6	G	A	854	165.097	128.174	-45.849	1.00	59.05	A16S
ATOM	17787	O6	G	A	854	164.267	129.041	-45.520	1.00	59.05	A16S
ATOM	17788	C5	G	A	854	164.870	126.805	-46.182	1.00	59.05	A16S
ATOM	17789	N7	G	A	854	163.693	126.073	-46.213	1.00	59.05	A16S
ATOM	17790	C8	G	A	854	164.062	124.883	-46.594	1.00	59.05	A16S
ATOM	17791	C2*	G	A	854	167.058	122.979	-46.266	1.00	49.97	A16S
ATOM	17792	O2*	G	A	854	168.228	122.560	-46.926	1.00	49.97	A16S
ATOM	17793	C3*	G	A	854	166.230	121.798	-45.764	1.00	49.97	A16S
ATOM	17794	O3*	G	A	854	167.045	120.751	-45.280	1.00	49.97	A16S
ATOM	17795	P	G	A	855	167.531	120.793	-43.759	1.00	44.37	A16S
ATOM	17796	O1P	G	A	855	168.778	119.984	-43.661	1.00	54.18	A16S
ATOM	17797	O2P	G	A	855	166.370	120.467	-42.889	1.00	54.18	A16S
ATOM	17798	O5*	G	A	855	167.909	122.331	-43.579	1.00	44.37	A16S
ATOM	17799	C5*	G	A	855	167.982	122.943	-42.286	1.00	44.37	A16S
ATOM	17800	C4*	G	A	855	169.056	124.002	-42.277	1.00	44.37	A16S
ATOM	17801	O4*	G	A	855	168.826	124.935	-43.356	1.00	44.37	A16S
ATOM	17802	C1*	G	A	855	169.206	126.242	-42.955	1.00	44.37	A16S
ATOM	17803	N9	G	A	855	168.026	127.092	-43.008	1.00	54.18	A16S
ATOM	17804	C4	G	A	855	167.974	128.422	-42.689	1.00	54.18	A16S
ATOM	17805	N3	G	A	855	169.026	129.193	-42.336	1.00	54.18	A16S
ATOM	17806	C2	G	A	855	168.657	130.425	-42.022	1.00	54.18	A16S
ATOM	17807	N2	G	A	855	169.582	131.329	-41.661	1.00	54.18	A16S
ATOM	17808	N1	G	A	855	167.355	130.859	-42.042	1.00	54.18	A16S
ATOM	17809	C6	G	A	855	166.256	130.080	-42.401	1.00	54.18	A16S
ATOM	17810	O6	G	A	855	165.110	130.567	-42.367	1.00	54.18	A16S
ATOM	17811	C5	G	A	855	166.646	128.760	-42.758	1.00	54.18	A16S
ATOM	17812	N7	G	A	855	165.884	127.677	-43.169	1.00	54.18	A16S
ATOM	17813	C8	G	A	855	166.747	126.716	-43.321	1.00	54.18	A16S
ATOM	17814	C2*	G	A	855	169.736	126.150	-41.525	1.00	44.37	A16S
ATOM	17815	O2*	G	A	855	171.144	126.065	-41.509	1.00	44.37	A16S
ATOM	17816	C3*	G	A	855	169.075	124.874	-41.044	1.00	44.37	A16S
ATOM	17817	O3*	G	A	855	169.783	124.280	-39.999	1.00	44.37	A16S
ATOM	17818	P	C	A	856	169.295	124.532	-38.500	1.00	56.22	A16S
ATOM	17819	O1P	C	A	856	170.022	123.534	-37.669	1.00	50.73	A16S
ATOM	17820	O2P	C	A	856	167.811	124.544	-38.507	1.00	50.73	A16S
ATOM	17821	O5*	C	A	856	169.802	126.005	-38.168	1.00	56.22	A16S
ATOM	17822	C5*	C	A	856	171.199	126.298	-38.166	1.00	56.22	A16S
ATOM	17823	C4*	C	A	856	171.412	127.780	-38.115	1.00	56.22	A16S
ATOM	17824	O4*	C	A	856	170.758	128.390	-39.254	1.00	56.22	A16S
ATOM	17825	C1*	C	A	856	170.235	129.652	-38.882	1.00	56.22	A16S
ATOM	17826	N1	C	A	856	168.782	129.603	-39.035	1.00	50.73	A16S
ATOM	17827	C6	C	A	856	168.135	128.427	-39.284	1.00	50.73	A16S
ATOM	17828	C2	C	A	856	168.072	130.777	-38.907	1.00	50.73	A16S
ATOM	17829	O2	C	A	856	168.691	131.813	-38.682	1.00	50.73	A16S
ATOM	17830	N3	C	A	856	166.737	130.760	-39.025	1.00	50.73	A16S
ATOM	17831	C4	C	A	856	166.108	129.615	-39.258	1.00	50.73	A16S
ATOM	17832	N4	C	A	856	164.783	129.641	-39.358	1.00	50.73	A16S
ATOM	17833	C5	C	A	856	166.809	128.388	-39.400	1.00	50.73	A16S
ATOM	17834	C2*	C	A	856	170.600	129.897	-37.420	1.00	56.22	A16S
ATOM	17835	O2*	C	A	856	171.787	130.656	-37.312	1.00	56.22	A16S
ATOM	17836	C3*	C	A	856	170.796	128.479	-36.922	1.00	56.22	A16S
ATOM	17837	O3*	C	A	856	171.636	128.467	-35.798	1.00	56.22	A16S
ATOM	17838	P	C	A	857	170.971	128.484	-34.348	1.00	57.74	A16S
ATOM	17839	O1P	C	A	857	172.100	128.428	-33.379	1.00	69.92	A16S
ATOM	17840	O2P	C	A	857	169.921	127.422	-34.326	1.00	69.92	A16S
ATOM	17841	O5*	C	A	857	170.231	129.898	-34.265	1.00	57.74	A16S
ATOM	17842	C5*	C	A	857	170.986	131.111	-34.102	1.00	57.74	A16S
ATOM	17843	C4*	C	A	857	170.074	132.309	-33.859	1.00	57.74	A16S
ATOM	17844	O4*	C	A	857	169.189	132.501	-34.997	1.00	57.74	A16S
ATOM	17845	C1*	C	A	857	167.999	133.142	-34.571	1.00	57.74	A16S
ATOM	17846	N1	C	A	857	166.842	132.315	-34.952	1.00	69.92	A16S
ATOM	17847	C6	C	A	857	167.008	131.041	-35.418	1.00	69.92	A16S
ATOM	17848	C2	C	A	857	165.555	132.861	-34.834	1.00	69.92	A16S
ATOM	17849	O2	C	A	857	165.426	134.008	-34.377	1.00	69.92	A16S
ATOM	17850	N3	C	A	857	164.487	132.124	-35.212	1.00	69.92	A16S
ATOM	17851	C4	C	A	857	164.663	130.886	-35.674	1.00	69.92	A16S
ATOM	17852	N4	C	A	857	163.584	130.195	-36.034	1.00	69.92	A16S
ATOM	17853	C5	C	A	857	165.957	130.299	-35.788	1.00	69.92	A16S
ATOM	17854	C2*	C	A	857	168.099	133.355	-33.061	1.00	57.74	A16S
ATOM	17855	O2*	C	A	857	168.507	134.685	-32.810	1.00	57.74	A16S
ATOM	17856	C3*	C	A	857	169.136	132.311	-32.659	1.00	57.74	A16S
ATOM	17857	O3*	C	A	857	169.761	132.666	-31.430	1.00	57.74	A16S



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ATOM	17858	P	G	A	858	169.211	132.031	-30.050	1.00	58.76	A16S
ATOM	17859	O1P	G	A	858	169.914	132.740	-28.941	1.00	54.69	A16S
ATOM	17860	O2P	G	A	858	169.298	130.548	-30.132	1.00	54.69	A16S
ATOM	17861	O5*	G	A	858	167.659	132.425	-30.012	1.00	58.76	A16S
ATOM	17862	C5*	G	A	858	167.205	133.590	-29.265	1.00	58.76	A16S
ATOM	17863	C4*	G	A	858	165.846	134.074	-29.755	1.00	58.76	A16S
ATOM	17864	O4*	G	A	858	165.719	133.741	-31.157	1.00	58.76	A16S
ATOM	17865	C1*	G	A	858	164.386	133.392	-31.447	1.00	58.76	A16S
ATOM	17866	N9	G	A	858	164.366	131.976	-31.801	1.00	54.69	A16S
ATOM	17867	C4	G	A	858	163.305	131.312	-32.339	1.00	54.69	A16S
ATOM	17868	N3	G	A	858	162.105	131.854	-32.612	1.00	54.69	A16S
ATOM	17869	C2	G	A	858	161.282	130.985	-33.137	1.00	54.69	A16S
ATOM	17870	N2	G	A	858	160.040	131.370	-33.456	1.00	54.69	A16S
ATOM	17871	N1	G	A	858	161.616	129.677	-33.385	1.00	54.69	A16S
ATOM	17872	C6	G	A	858	162.853	129.093	-33.113	1.00	54.69	A16S
ATOM	17873	O6	G	A	858	163.054	127.901	-33.390	1.00	54.69	A16S
ATOM	17874	C5	G	A	858	163.740	130.017	-32.535	1.00	54.69	A16S
ATOM	17875	N7	G	A	858	165.055	129.863	-32.108	1.00	54.69	A16S
ATOM	17876	C8	G	A	858	165.388	131.049	-31.678	1.00	54.69	A16S
ATOM	17877	C2*	G	A	858	163.555	133.687	-30.205	1.00	58.76	A16S
ATOM	17878	O2*	G	A	858	163.124	135.028	-30.285	1.00	58.76	A16S
ATOM	17879	C3*	G	A	858	164.587	133.505	-29.105	1.00	58.76	A16S
ATOM	17880	O3*	G	A	858	164.214	134.238	-27.933	1.00	58.76	A16S
ATOM	17881	P	A	A	859	163.111	133.629	-26.916	1.00	48.07	A16S
ATOM	17882	O1P	A	A	859	163.148	134.465	-25.676	1.00	52.14	A16S
ATOM	17883	O2P	A	A	859	163.278	132.158	-26.804	1.00	52.14	A16S
ATOM	17884	O5*	A	A	859	161.731	133.899	-27.665	1.00	48.07	A16S
ATOM	17885	C5*	A	A	859	161.380	135.234	-28.053	1.00	48.07	A16S
ATOM	17886	C4*	A	A	859	159.906	135.472	-27.882	1.00	48.07	A16S
ATOM	17887	O4*	A	A	859	159.186	135.083	-29.073	1.00	48.07	A16S
ATOM	17888	C1*	A	A	859	157.843	134.812	-28.728	1.00	48.07	A16S
ATOM	17889	N9	A	A	859	157.459	133.501	-29.248	1.00	52.14	A16S
ATOM	17890	C4	A	A	859	156.168	133.089	-29.463	1.00	52.14	A16S
ATOM	17891	N3	A	A	859	155.049	133.802	-29.278	1.00	52.14	A16S
ATOM	17892	C2	A	A	859	153.977	133.062	-29.549	1.00	52.14	A16S
ATOM	17893	N1	A	A	859	153.907	131.795	-29.956	1.00	52.14	A16S
ATOM	17894	C6	A	A	859	155.057	131.112	-30.135	1.00	52.14	A16S
ATOM	17895	N6	A	A	859	154.994	129.846	-30.547	1.00	52.14	A16S
ATOM	17896	C5	A	A	859	156.255	131.777	-29.879	1.00	52.14	A16S
ATOM	17897	N7	A	A	859	157.575	131.371	-29.953	1.00	52.14	A16S
ATOM	17898	C8	A	A	859	158.250	132.432	-29.577	1.00	52.14	A16S
ATOM	17899	C2*	A	A	859	157.739	134.869	-27.202	1.00	48.07	A16S
ATOM	17900	O2*	A	A	859	157.253	136.130	-26.822	1.00	48.07	A16S
ATOM	17901	C3*	A	A	859	159.187	134.734	-26.771	1.00	48.07	A16S
ATOM	17902	O3*	A	A	859	159.368	135.308	-25.491	1.00	48.07	A16S
ATOM	17903	P	A	A	860	159.177	134.385	-24.180	1.00	40.09	A16S
ATOM	17904	O1P	A	A	860	158.971	135.289	-23.016	1.00	59.52	A16S
ATOM	17905	O2P	A	A	860	160.260	133.362	-24.124	1.00	59.52	A16S
ATOM	17906	O5*	A	A	860	157.792	133.640	-24.443	1.00	40.09	A16S
ATOM	17907	C5*	A	A	860	156.553	134.275	-24.104	1.00	40.09	A16S
ATOM	17908	C4*	A	A	860	155.389	133.345	-24.343	1.00	40.09	A16S
ATOM	17909	O4*	A	A	860	155.338	133.006	-25.747	1.00	40.09	A16S
ATOM	17910	C1*	A	A	860	154.843	131.687	-25.897	1.00	40.09	A16S
ATOM	17911	N9	A	A	860	155.889	130.885	-26.520	1.00	59.52	A16S
ATOM	17912	C4	A	A	860	155.710	129.690	-27.162	1.00	59.52	A16S
ATOM	17913	N3	A	A	860	154.552	129.059	-27.380	1.00	59.52	A16S
ATOM	17914	C2	A	A	860	154.763	127.922	-28.024	1.00	59.52	A16S
ATOM	17915	N1	A	A	860	155.914	127.381	-28.436	1.00	59.52	A16S
ATOM	17916	C6	A	A	860	157.060	128.039	-28.186	1.00	59.52	A16S
ATOM	17917	N6	A	A	860	158.210	127.484	-28.568	1.00	59.52	A16S
ATOM	17918	C5	A	A	860	156.970	129.265	-27.526	1.00	59.52	A16S
ATOM	17919	N7	A	A	860	157.926	130.192	-27.146	1.00	59.52	A16S
ATOM	17920	C8	A	A	860	157.235	131.134	-26.559	1.00	59.52	A16S
ATOM	17921	C2*	A	A	860	154.518	131.150	-24.502	1.00	40.09	A16S
ATOM	17922	O2*	A	A	860	153.156	131.359	-24.222	1.00	40.09	A16S
ATOM	17923	C3*	A	A	860	155.411	132.006	-23.630	1.00	40.09	A16S
ATOM	17924	O3*	A	A	860	154.897	132.093	-22.329	1.00	40.09	A16S
ATOM	17925	P	G	A	861	155.711	131.417	-21.128	1.00	41.85	A16S
ATOM	17926	O1P	G	A	861	154.970	131.726	-19.881	1.00	49.23	A16S
ATOM	17927	O2P	G	A	861	157.162	131.785	-21.231	1.00	49.23	A16S
ATOM	17928	O5*	G	A	861	155.559	129.858	-21.415	1.00	41.85	A16S
ATOM	17929	C5*	G	A	861	154.258	129.267	-21.517	1.00	41.85	A16S
ATOM	17930	C4*	G	A	861	154.304	127.989	-22.329	1.00	41.85	A16S
ATOM	17931	O4*	G	A	861	154.766	128.285	-23.675	1.00	41.85	A16S
ATOM	17932	C1*	G	A	861	155.561	127.216	-24.156	1.00	41.85	A16S
ATOM	17933	N9	G	A	861	156.909	127.738	-24.355	1.00	49.23	A16S
ATOM	17934	C4	G	A	861	157.943	127.151	-25.043	1.00	49.23	A16S



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ATOM	17935	N3	G	A	861	157.917	125.949	-25.638	1.00	49.23	A16S
ATOM	17936	C2	G	A	861	159.057	125.669	-26.239	1.00	49.23	A16S
ATOM	17937	N2	G	A	861	159.201	124.498	-26.857	1.00	49.23	A16S
ATOM	17938	N1	G	A	861	160.140	126.508	-26.276	1.00	49.23	A16S
ATOM	17939	C6	G	A	861	160.200	127.754	-25.674	1.00	49.23	A16S
ATOM	17940	O6	G	A	861	161.234	128.447	-25.778	1.00	49.23	A16S
ATOM	17941	C5	G	A	861	158.976	128.060	-24.995	1.00	49.23	A16S
ATOM	17942	N7	G	A	861	158.610	129.177	-24.257	1.00	49.23	A16S
ATOM	17943	C8	G	A	861	157.381	128.940	-23.900	1.00	49.23	A16S
ATOM	17944	C2*	G	A	861	155.478	126.100	-23.115	1.00	41.85	A16S
ATOM	17945	O2*	G	A	861	154.344	125.311	-23.409	1.00	41.85	A16S
ATOM	17946	C3*	G	A	861	155.226	126.885	-21.840	1.00	41.85	A16S
ATOM	17947	O3*	G	A	861	154.612	126.073	-20.852	1.00	41.85	A16S
ATOM	17948	P	C	A	862	155.530	125.342	-19.750	1.00	48.68	A16S
ATOM	17949	O1P	C	A	862	154.664	124.698	-18.731	1.00	51.06	A16S
ATOM	17950	O2P	C	A	862	156.553	126.315	-19.329	1.00	51.06	A16S
ATOM	17951	O5*	C	A	862	156.270	124.186	-20.550	1.00	48.68	A16S
ATOM	17952	C5*	C	A	862	155.507	123.188	-21.234	1.00	48.68	A16S
ATOM	17953	C4*	C	A	862	156.419	122.252	-21.976	1.00	48.68	A16S
ATOM	17954	O4*	C	A	862	157.028	122.934	-23.098	1.00	48.68	A16S
ATOM	17955	C1*	C	A	862	158.353	122.472	-23.265	1.00	48.68	A16S
ATOM	17956	N1	C	A	862	159.261	123.616	-23.125	1.00	51.06	A16S
ATOM	17957	C6	C	A	862	158.913	124.691	-22.368	1.00	51.06	A16S
ATOM	17958	C2	C	A	862	160.478	123.591	-23.780	1.00	51.06	A16S
ATOM	17959	O2	C	A	862	160.767	122.606	-24.462	1.00	51.06	A16S
ATOM	17960	N3	C	A	862	161.311	124.636	-23.663	1.00	51.06	A16S
ATOM	17961	C4	C	A	862	160.960	125.683	-22.931	1.00	51.06	A16S
ATOM	17962	N4	C	A	862	161.807	126.703	-22.849	1.00	51.06	A16S
ATOM	17963	C5	C	A	862	159.724	125.737	-22.250	1.00	51.06	A16S
ATOM	17964	C2*	C	A	862	158.603	121.372	-22.233	1.00	48.68	A16S
ATOM	17965	O2*	C	A	862	158.317	120.128	-22.839	1.00	48.68	A16S
ATOM	17966	C3*	C	A	862	157.580	121.712	-21.161	1.00	48.68	A16S
ATOM	17967	O3*	C	A	862	157.183	120.568	-20.414	1.00	48.68	A16S
ATOM	17968	P	U	A	863	157.959	120.205	-19.053	1.00	53.45	A16S
ATOM	17969	O1P	U	A	863	157.411	118.915	-18.526	1.00	57.27	A16S
ATOM	17970	O2P	U	A	863	158.006	121.401	-18.162	1.00	57.27	A16S
ATOM	17971	O5*	U	A	863	159.438	119.927	-19.566	1.00	53.45	A16S
ATOM	17972	C5*	U	A	863	159.724	118.764	-20.341	1.00	53.45	A16S
ATOM	17973	C4*	U	A	863	161.198	118.643	-20.547	1.00	53.45	A16S
ATOM	17974	O4*	U	A	863	161.659	119.640	-21.478	1.00	53.45	A16S
ATOM	17975	C1*	U	A	863	162.952	120.065	-21.105	1.00	53.45	A16S
ATOM	17976	N1	U	A	863	162.931	121.527	-20.953	1.00	57.27	A16S
ATOM	17977	C6	U	A	863	161.773	122.197	-20.650	1.00	57.27	A16S
ATOM	17978	C2	U	A	863	164.116	122.206	-21.130	1.00	57.27	A16S
ATOM	17979	O2	U	A	863	165.149	121.658	-21.415	1.00	57.27	A16S
ATOM	17980	N3	U	A	863	164.040	123.557	-20.967	1.00	57.27	A16S
ATOM	17981	C4	U	A	863	162.922	124.283	-20.663	1.00	57.27	A16S
ATOM	17982	O4	U	A	863	163.017	125.494	-20.529	1.00	57.27	A16S
ATOM	17983	C5	U	A	863	161.728	123.515	-20.508	1.00	57.27	A16S
ATOM	17984	C2*	U	A	863	163.361	119.295	-19.845	1.00	53.45	A16S
ATOM	17985	O2*	U	A	863	164.154	118.188	-20.221	1.00	53.45	A16S
ATOM	17986	C3*	U	A	863	162.013	118.859	-19.297	1.00	53.45	A16S
ATOM	17987	O3*	U	A	863	162.086	117.639	-18.610	1.00	53.45	A16S
ATOM	17988	P	A	A	864	162.012	117.632	-17.021	1.00	42.80	A16S
ATOM	17989	O1P	A	A	864	162.156	116.213	-16.603	1.00	62.32	A16S
ATOM	17990	O2P	A	A	864	160.805	118.395	-16.608	1.00	62.32	A16S
ATOM	17991	O5*	A	A	864	163.303	118.460	-16.602	1.00	42.80	A16S
ATOM	17992	C5*	A	A	864	163.667	118.594	-15.224	1.00	42.80	A16S
ATOM	17993	C4*	A	A	864	165.145	118.359	-15.049	1.00	42.80	A16S
ATOM	17994	O4*	A	A	864	165.461	116.956	-15.258	1.00	42.80	A16S
ATOM	17995	C1*	A	A	864	166.712	116.842	-15.922	1.00	42.80	A16S
ATOM	17996	N9	A	A	864	166.514	116.107	-17.179	1.00	62.32	A16S
ATOM	17997	C4	A	A	864	167.455	115.349	-17.829	1.00	62.32	A16S
ATOM	17998	N3	A	A	864	168.727	115.145	-17.460	1.00	62.32	A16S
ATOM	17999	C2	A	A	864	169.336	114.340	-18.317	1.00	62.32	A16S
ATOM	18000	N1	A	A	864	168.857	113.759	-19.419	1.00	62.32	A16S
ATOM	18001	C6	A	A	864	167.577	113.988	-19.767	1.00	62.32	A16S
ATOM	18002	N6	A	A	864	167.106	113.406	-20.874	1.00	62.32	A16S
ATOM	18003	C5	A	A	864	166.821	114.828	-18.940	1.00	62.32	A16S
ATOM	18004	N7	A	A	864	165.509	115.264	-19.005	1.00	62.32	A16S
ATOM	18005	C8	A	A	864	165.376	116.017	-17.943	1.00	62.32	A16S
ATOM	18006	C2*	A	A	864	167.275	118.259	-16.101	1.00	42.80	A16S
ATOM	18007	O2*	A	A	864	168.164	118.559	-15.040	1.00	42.80	A16S
ATOM	18008	C3*	A	A	864	166.011	119.107	-16.041	1.00	42.80	A16S
ATOM	18009	O3*	A	A	864	166.244	120.424	-15.597	1.00	42.80	A16S
ATOM	18010	P	A	A	865	165.742	121.656	-16.493	1.00	46.95	A16S
ATOM	18011	O1P	A	A	865	165.365	122.743	-15.562	1.00	51.78	A16S



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ATOM	18012	O2P	A	A	865	164.747	121.159	-17.482	1.00	51.78	A16S
ATOM	18013	O5*	A	A	865	167.057	122.126	-17.256	1.00	46.95	A16S
ATOM	18014	C5*	A	A	865	168.260	122.400	-16.515	1.00	46.95	A16S
ATOM	18015	C4*	A	A	865	169.451	121.726	-17.156	1.00	46.95	A16S
ATOM	18016	O4*	A	A	865	169.212	120.296	-17.253	1.00	46.95	A16S
ATOM	18017	C1*	A	A	865	169.821	119.787	-18.428	1.00	46.95	A16S
ATOM	18018	N9	A	A	865	168.781	119.214	-19.285	1.00	51.78	A16S
ATOM	18019	C4	A	A	865	168.906	118.114	-20.096	1.00	51.78	A16S
ATOM	18020	N3	A	A	865	169.989	117.339	-20.263	1.00	51.78	A16S
ATOM	18021	C2	A	A	865	169.739	116.363	-21.149	1.00	51.78	A16S
ATOM	18022	N1	A	A	865	168.612	116.095	-21.823	1.00	51.78	A16S
ATOM	18023	C6	A	A	865	167.541	116.887	-21.615	1.00	51.78	A16S
ATOM	18024	N6	A	A	865	166.411	116.609	-22.256	1.00	51.78	A16S
ATOM	18025	C5	A	A	865	167.682	117.965	-20.719	1.00	51.78	A16S
ATOM	18026	N7	A	A	865	166.804	118.954	-20.311	1.00	51.78	A16S
ATOM	18027	C8	A	A	865	167.500	119.661	-19.460	1.00	51.78	A16S
ATOM	18028	C2*	A	A	865	170.545	120.950	-19.108	1.00	46.95	A16S
ATOM	18029	O2*	A	A	865	171.888	120.940	-18.678	1.00	46.95	A16S
ATOM	18030	C3*	A	A	865	169.779	122.153	-18.573	1.00	46.95	A16S
ATOM	18031	O3*	A	A	865	170.578	123.317	-18.565	1.00	46.95	A16S
ATOM	18032	P	C	A	866	170.614	124.263	-19.864	1.00	44.92	A16S
ATOM	18033	O1P	C	A	866	171.633	125.333	-19.631	1.00	53.88	A16S
ATOM	18034	O2P	C	A	866	169.228	124.627	-20.272	1.00	53.88	A16S
ATOM	18035	O5*	C	A	866	171.215	123.340	-21.007	1.00	44.92	A16S
ATOM	18036	C5*	C	A	866	172.604	122.994	-21.011	1.00	44.92	A16S
ATOM	18037	C4*	C	A	866	172.885	122.047	-22.135	1.00	44.92	A16S
ATOM	18038	O4*	C	A	866	172.205	120.784	-21.913	1.00	44.92	A16S
ATOM	18039	C1*	C	A	866	171.834	120.237	-23.158	1.00	44.92	A16S
ATOM	18040	N1	C	A	866	170.373	120.065	-23.200	1.00	53.88	A16S
ATOM	18041	C6	C	A	866	169.535	121.087	-22.875	1.00	53.88	A16S
ATOM	18042	C2	C	A	866	169.852	118.842	-23.613	1.00	53.88	A16S
ATOM	18043	O2	C	A	866	170.627	117.906	-23.855	1.00	53.88	A16S
ATOM	18044	N3	C	A	866	168.520	118.697	-23.735	1.00	53.88	A16S
ATOM	18045	C4	C	A	866	167.718	119.705	-23.441	1.00	53.88	A16S
ATOM	18046	N4	C	A	866	166.419	119.517	-23.589	1.00	53.88	A16S
ATOM	18047	C5	C	A	866	168.213	120.950	-22.984	1.00	53.88	A16S
ATOM	18048	C2*	C	A	866	172.319	121.195	-24.245	1.00	44.92	A16S
ATOM	18049	O2*	C	A	866	173.625	120.810	-24.606	1.00	44.92	A16S
ATOM	18050	C3*	C	A	866	172.393	122.506	-23.493	1.00	44.92	A16S
ATOM	18051	O3*	C	A	866	173.332	123.377	-24.088	1.00	44.92	A16S
ATOM	18052	P	G	A	867	172.865	124.372	-25.261	1.00	41.26	A16S
ATOM	18053	O1P	G	A	867	174.094	124.987	-25.841	1.00	58.65	A16S
ATOM	18054	O2P	G	A	867	171.755	125.253	-24.803	1.00	58.65	A16S
ATOM	18055	O5*	G	A	867	172.278	123.380	-26.340	1.00	41.26	A16S
ATOM	18056	C5*	G	A	867	171.242	123.796	-27.199	1.00	41.26	A16S
ATOM	18057	C4*	G	A	867	170.291	122.671	-27.388	1.00	41.26	A16S
ATOM	18058	O4*	G	A	867	169.782	122.238	-26.103	1.00	41.26	A16S
ATOM	18059	C1*	G	A	867	168.389	121.996	-26.205	1.00	41.26	A16S
ATOM	18060	N9	G	A	867	167.730	123.041	-25.417	1.00	58.65	A16S
ATOM	18061	C4	G	A	867	166.393	123.165	-25.073	1.00	58.65	A16S
ATOM	18062	N3	G	A	867	165.399	122.308	-25.376	1.00	58.65	A16S
ATOM	18063	C2	G	A	867	164.238	122.712	-24.878	1.00	58.65	A16S
ATOM	18064	N2	G	A	867	163.145	121.966	-25.031	1.00	58.65	A16S
ATOM	18065	N1	G	A	867	164.070	123.870	-24.185	1.00	58.65	A16S
ATOM	18066	C6	G	A	867	165.078	124.772	-23.894	1.00	58.65	A16S
ATOM	18067	O6	G	A	867	164.820	125.813	-23.305	1.00	58.65	A16S
ATOM	18068	C5	G	A	867	166.311	124.342	-24.366	1.00	58.65	A16S
ATOM	18069	N7	G	A	867	167.552	124.934	-24.245	1.00	58.65	A16S
ATOM	18070	C8	G	A	867	168.359	124.132	-24.879	1.00	58.65	A16S
ATOM	18071	C2*	G	A	867	168.043	122.061	-27.703	1.00	41.26	A16S
ATOM	18072	O2*	G	A	867	168.227	120.805	-28.330	1.00	41.26	A16S
ATOM	18073	C3*	G	A	867	169.087	123.037	-28.215	1.00	41.26	A16S
ATOM	18074	O3*	G	A	867	169.387	122.845	-29.585	1.00	41.26	A16S
ATOM	18075	P	C	A	868	168.676	123.763	-30.692	1.00	51.36	A16S
ATOM	18076	O1P	C	A	868	169.272	123.354	-32.002	1.00	49.39	A16S
ATOM	18077	O2P	C	A	868	168.755	125.186	-30.269	1.00	49.39	A16S
ATOM	18078	O5*	C	A	868	167.160	123.270	-30.635	1.00	51.36	A16S
ATOM	18079	C5*	C	A	868	166.869	121.868	-30.755	1.00	51.36	A16S
ATOM	18080	C4*	C	A	868	165.388	121.594	-30.616	1.00	51.36	A16S
ATOM	18081	O4*	C	A	868	164.988	121.533	-29.224	1.00	51.36	A16S
ATOM	18082	C1*	C	A	868	163.649	121.982	-29.106	1.00	51.36	A16S
ATOM	18083	N1	C	A	868	163.640	123.236	-28.322	1.00	49.39	A16S
ATOM	18084	C6	C	A	868	164.780	123.972	-28.162	1.00	49.39	A16S
ATOM	18085	C2	C	A	868	162.424	123.685	-27.763	1.00	49.39	A16S
ATOM	18086	O2	C	A	868	161.410	122.959	-27.836	1.00	49.39	A16S
ATOM	18087	N3	C	A	868	162.390	124.888	-27.145	1.00	49.39	A16S
ATOM	18088	C4	C	A	868	163.502	125.617	-27.038	1.00	49.39	A16S



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ATOM	18089	N4	C	A	868	163.406	126.821	-26.463	1.00	49.39	A16S
ATOM	18090	C5	C	A	868	164.759	125.151	-27.529	1.00	49.39	A16S
ATOM	18091	C2*	C	A	868	163.130	122.226	-30.526	1.00	51.36	A16S
ATOM	18092	O2*	C	A	868	162.595	121.026	-31.050	1.00	51.36	A16S
ATOM	18093	C3*	C	A	868	164.410	122.562	-31.260	1.00	51.36	A16S
ATOM	18094	O3*	C	A	868	164.245	122.341	-32.641	1.00	51.36	A16S
ATOM	18095	P	G	A	869	164.131	123.599	-33.623	1.00	43.33	A16S
ATOM	18096	O1P	G	A	869	163.758	123.115	-34.971	1.00	55.54	A16S
ATOM	18097	O2P	G	A	869	165.344	124.470	-33.461	1.00	55.54	A16S
ATOM	18098	O5*	G	A	869	162.865	124.389	-33.069	1.00	43.33	A16S
ATOM	18099	C5*	G	A	869	161.564	123.778	-33.007	1.00	43.33	A16S
ATOM	18100	C4*	G	A	869	160.580	124.738	-32.375	1.00	43.33	A16S
ATOM	18101	O4*	G	A	869	160.944	124.966	-30.993	1.00	43.33	A16S
ATOM	18102	C1*	G	A	869	160.685	126.309	-30.645	1.00	43.33	A16S
ATOM	18103	N9	G	A	869	161.930	126.908	-30.193	1.00	55.54	A16S
ATOM	18104	C4	G	A	869	162.059	128.070	-29.503	1.00	55.54	A16S
ATOM	18105	N3	G	A	869	161.051	128.830	-29.058	1.00	55.54	A16S
ATOM	18106	C2	G	A	869	161.491	129.913	-28.460	1.00	55.54	A16S
ATOM	18107	N2	G	A	869	160.629	130.783	-27.922	1.00	55.54	A16S
ATOM	18108	N1	G	A	869	162.813	130.231	-28.335	1.00	55.54	A16S
ATOM	18109	C6	G	A	869	163.866	129.458	-28.794	1.00	55.54	A16S
ATOM	18110	O6	G	A	869	165.033	129.846	-28.644	1.00	55.54	A16S
ATOM	18111	C5	G	A	869	163.409	128.288	-29.405	1.00	55.54	A16S
ATOM	18112	N7	G	A	869	164.119	127.250	-29.974	1.00	55.54	A16S
ATOM	18113	C8	G	A	869	163.199	126.447	-30.419	1.00	55.54	A16S
ATOM	18114	C2*	G	A	869	160.109	127.025	-31.871	1.00	43.33	A16S
ATOM	18115	O2*	G	A	869	158.708	127.168	-31.749	1.00	43.33	A16S
ATOM	18116	C3*	G	A	869	160.533	126.113	-33.016	1.00	43.33	A16S
ATOM	18117	O3*	G	A	869	159.537	126.106	-34.022	1.00	43.33	A16S
ATOM	18118	P	U	A	870	159.769	126.914	-35.377	1.00	42.68	A16S
ATOM	18119	O1P	U	A	870	160.872	126.187	-36.064	1.00	63.77	A16S
ATOM	18120	O2P	U	A	870	159.903	128.364	-35.089	1.00	63.77	A16S
ATOM	18121	O5*	U	A	870	158.416	126.711	-36.196	1.00	42.68	A16S
ATOM	18122	C5*	U	A	870	158.047	125.418	-36.681	1.00	42.68	A16S
ATOM	18123	C4*	U	A	870	156.957	125.528	-37.716	1.00	42.68	A16S
ATOM	18124	O4*	U	A	870	155.699	125.843	-37.075	1.00	42.68	A16S
ATOM	18125	C1*	U	A	870	155.094	126.951	-37.710	1.00	42.68	A16S
ATOM	18126	N1	U	A	870	154.469	127.784	-36.672	1.00	63.77	A16S
ATOM	18127	C6	U	A	870	155.129	128.066	-35.497	1.00	63.77	A16S
ATOM	18128	C2	U	A	870	153.189	128.261	-36.899	1.00	63.77	A16S
ATOM	18129	O2	U	A	870	152.577	128.058	-37.931	1.00	63.77	A16S
ATOM	18130	N3	U	A	870	152.647	128.986	-35.866	1.00	63.77	A16S
ATOM	18131	C4	U	A	870	153.244	129.275	-34.653	1.00	63.77	A16S
ATOM	18132	O4	U	A	870	152.594	129.850	-33.778	1.00	63.77	A16S
ATOM	18133	C5	U	A	870	154.576	128.772	-34.507	1.00	63.77	A16S
ATOM	18134	C2*	U	A	870	156.191	127.673	-38.484	1.00	42.68	A16S
ATOM	18135	O2*	U	A	870	155.612	128.280	-39.622	1.00	42.68	A16S
ATOM	18136	C3*	U	A	870	157.150	126.535	-38.844	1.00	42.68	A16S
ATOM	18137	O3*	U	A	870	156.767	125.943	-40.083	1.00	42.68	A16S
ATOM	18138	P	U	A	871	157.897	125.579	-41.169	1.00	45.89	A16S
ATOM	18139	O1P	U	A	871	158.981	126.596	-41.096	1.00	55.40	A16S
ATOM	18140	O2P	U	A	871	157.228	125.310	-42.469	1.00	55.40	A16S
ATOM	18141	O5*	U	A	871	158.524	124.232	-40.624	1.00	45.89	A16S
ATOM	18142	C5*	U	A	871	157.848	122.995	-40.798	1.00	45.89	A16S
ATOM	18143	C4*	U	A	871	158.752	121.884	-40.370	1.00	45.89	A16S
ATOM	18144	O4*	U	A	871	159.825	121.730	-41.342	1.00	45.89	A16S
ATOM	18145	C1*	U	A	871	161.065	121.826	-40.679	1.00	45.89	A16S
ATOM	18146	N1	U	A	871	162.056	122.397	-41.602	1.00	55.40	A16S
ATOM	18147	C6	U	A	871	161.937	123.669	-42.091	1.00	55.40	A16S
ATOM	18148	C2	U	A	871	163.136	121.599	-41.951	1.00	55.40	A16S
ATOM	18149	O2	U	A	871	163.266	120.439	-41.566	1.00	55.40	A16S
ATOM	18150	N3	U	A	871	164.061	122.203	-42.770	1.00	55.40	A16S
ATOM	18151	C4	U	A	871	164.019	123.488	-43.266	1.00	55.40	A16S
ATOM	18152	O4	U	A	871	164.999	123.939	-43.872	1.00	55.40	A16S
ATOM	18153	C5	U	A	871	162.854	124.226	-42.889	1.00	55.40	A16S
ATOM	18154	C2*	U	A	871	160.803	122.627	-39.398	1.00	45.89	A16S
ATOM	18155	O2*	U	A	871	161.739	122.338	-38.379	1.00	45.89	A16S
ATOM	18156	C3*	U	A	871	159.410	122.145	-39.017	1.00	45.89	A16S
ATOM	18157	O3*	U	A	871	159.527	120.932	-38.304	1.00	45.89	A16S
ATOM	18158	P	A	A	872	158.278	120.384	-37.470	1.00	43.69	A16S
ATOM	18159	O1P	A	A	872	158.365	118.891	-37.502	1.00	39.27	A16S
ATOM	18160	O2P	A	A	872	157.066	121.068	-37.972	1.00	39.27	A16S
ATOM	18161	O5*	A	A	872	158.546	120.861	-35.974	1.00	43.69	A16S
ATOM	18162	C5*	A	A	872	159.811	120.608	-35.373	1.00	43.69	A16S
ATOM	18163	C4*	A	A	872	159.664	120.387	-33.901	1.00	43.69	A16S
ATOM	18164	O4*	A	A	872	159.387	121.640	-33.234	1.00	43.69	A16S
ATOM	18165	C1*	A	A	872	158.462	121.392	-32.215	1.00	43.69	A16S



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ATOM	18166	N9	A	A 872	157.863	122.644	-31.761	1.00	39.27	A16S
ATOM	18167	C4	A	A 872	156.874	123.377	-32.356	1.00	39.27	A16S
ATOM	18168	N3	A	A 872	156.273	123.127	-33.523	1.00	39.27	A16S
ATOM	18169	C2	A	A 872	155.324	124.034	-33.759	1.00	39.27	A16S
ATOM	18170	N1	A	A 872	154.935	125.073	-33.010	1.00	39.27	A16S
ATOM	18171	C6	A	A 872	155.563	125.284	-31.833	1.00	39.27	A16S
ATOM	18172	N6	A	A 872	155.159	126.293	-31.054	1.00	39.27	A16S
ATOM	18173	C5	A	A 872	156.599	124.412	-31.483	1.00	39.27	A16S
ATOM	18174	N7	A	A 872	157.435	124.361	-30.379	1.00	39.27	A16S
ATOM	18175	C8	A	A 872	158.169	123.302	-30.597	1.00	39.27	A16S
ATOM	18176	C2*	A	A 872	157.551	120.312	-32.790	1.00	43.69	A16S
ATOM	18177	O2*	A	A 872	156.874	119.638	-31.738	1.00	43.69	A16S
ATOM	18178	C3*	A	A 872	158.589	119.405	-33.447	1.00	43.69	A16S
ATOM	18179	O3*	A	A 872	159.125	118.608	-32.406	1.00	43.69	A16S
ATOM	18180	P	A	A 873	159.870	117.242	-32.755	1.00	38.22	A16S
ATOM	18181	O1P	A	A 873	161.195	117.591	-33.309	1.00	65.10	A16S
ATOM	18182	O2P	A	A 873	158.956	116.371	-33.536	1.00	65.10	A16S
ATOM	18183	O5*	A	A 873	160.125	116.614	-31.319	1.00	38.22	A16S
ATOM	18184	C5*	A	A 873	159.038	116.346	-30.410	1.00	38.22	A16S
ATOM	18185	C4*	A	A 873	159.197	117.177	-29.164	1.00	38.22	A16S
ATOM	18186	O4*	A	A 873	160.560	117.035	-28.687	1.00	38.22	A16S
ATOM	18187	C1*	A	A 873	161.206	118.295	-28.704	1.00	38.22	A16S
ATOM	18188	N9	A	A 873	162.601	118.092	-29.098	1.00	65.10	A16S
ATOM	18189	C4	A	A 873	163.703	118.426	-28.352	1.00	65.10	A16S
ATOM	18190	N3	A	A 873	163.725	119.029	-27.155	1.00	65.10	A16S
ATOM	18191	C2	A	A 873	164.973	119.186	-26.734	1.00	65.10	A16S
ATOM	18192	N1	A	A 873	166.113	118.823	-27.319	1.00	65.10	A16S
ATOM	18193	C6	A	A 873	166.053	118.204	-28.513	1.00	65.10	A16S
ATOM	18194	N6	A	A 873	167.186	117.804	-29.082	1.00	65.10	A16S
ATOM	18195	C5	A	A 873	164.794	118.002	-29.081	1.00	65.10	A16S
ATOM	18196	N7	A	A 873	164.395	117.434	-30.281	1.00	65.10	A16S
ATOM	18197	C8	A	A 873	163.087	117.516	-30.246	1.00	65.10	A16S
ATOM	18198	C2*	A	A 873	160.385	119.197	-29.628	1.00	38.22	A16S
ATOM	18199	O2*	A	A 873	160.496	120.552	-29.234	1.00	38.22	A16S
ATOM	18200	C3*	A	A 873	158.975	118.668	-29.389	1.00	38.22	A16S
ATOM	18201	O3*	A	A 873	158.519	119.261	-28.172	1.00	38.22	A16S
ATOM	18202	P	G	A 874	157.147	118.777	-27.496	1.00	42.81	A16S
ATOM	18203	O1P	G	A 874	157.553	118.152	-26.209	1.00	41.32	A16S
ATOM	18204	O2P	G	A 874	156.331	118.009	-28.477	1.00	41.32	A16S
ATOM	18205	O5*	G	A 874	156.401	120.135	-27.151	1.00	42.81	A16S
ATOM	18206	C5*	G	A 874	156.930	121.031	-26.161	1.00	42.81	A16S
ATOM	18207	C4*	G	A 874	156.092	122.266	-26.126	1.00	42.81	A16S
ATOM	18208	O4*	G	A 874	156.247	122.953	-27.387	1.00	42.81	A16S
ATOM	18209	C1*	G	A 874	154.991	123.439	-27.827	1.00	42.81	A16S
ATOM	18210	N9	G	A 874	154.711	122.864	-29.137	1.00	41.32	A16S
ATOM	18211	C4	G	A 874	153.662	123.179	-29.974	1.00	41.32	A16S
ATOM	18212	N3	G	A 874	152.701	124.093	-29.740	1.00	41.32	A16S
ATOM	18213	C2	G	A 874	151.817	124.141	-30.731	1.00	41.32	A16S
ATOM	18214	N2	G	A 874	150.787	124.989	-30.680	1.00	41.32	A16S
ATOM	18215	N1	G	A 874	151.874	123.364	-31.849	1.00	41.32	A16S
ATOM	18216	C6	G	A 874	152.858	122.426	-32.111	1.00	41.32	A16S
ATOM	18217	O6	G	A 874	152.819	121.777	-33.158	1.00	41.32	A16S
ATOM	18218	C5	G	A 874	153.811	122.358	-31.066	1.00	41.32	A16S
ATOM	18219	N7	G	A 874	154.936	121.560	-30.932	1.00	41.32	A16S
ATOM	18220	C8	G	A 874	155.436	121.894	-29.775	1.00	41.32	A16S
ATOM	18221	C2*	G	A 874	153.945	123.089	-26.765	1.00	42.81	A16S
ATOM	18222	O2*	G	A 874	153.706	124.223	-25.950	1.00	42.81	A16S
ATOM	18223	C3*	G	A 874	154.619	121.926	-26.050	1.00	42.81	A16S
ATOM	18224	O3*	G	A 874	154.213	121.719	-24.708	1.00	42.81	A16S
ATOM	18225	P	C	A 875	153.064	120.640	-24.393	1.00	48.58	A16S
ATOM	18226	O1P	C	A 875	152.903	120.558	-22.912	1.00	37.18	A16S
ATOM	18227	O2P	C	A 875	153.305	119.385	-25.180	1.00	37.18	A16S
ATOM	18228	O5*	C	A 875	151.767	121.329	-25.002	1.00	48.58	A16S
ATOM	18229	C5*	C	A 875	151.215	122.495	-24.398	1.00	48.58	A16S
ATOM	18230	C4*	C	A 875	149.961	122.878	-25.111	1.00	48.58	A16S
ATOM	18231	O4*	C	A 875	150.285	123.277	-26.459	1.00	48.58	A16S
ATOM	18232	C1*	C	A 875	149.247	122.889	-27.329	1.00	48.58	A16S
ATOM	18233	N1	C	A 875	149.811	122.072	-28.404	1.00	37.18	A16S
ATOM	18234	C6	C	A 875	150.975	121.380	-28.235	1.00	37.18	A16S
ATOM	18235	C2	C	A 875	149.118	122.006	-29.613	1.00	37.18	A16S
ATOM	18236	O2	C	A 875	148.087	122.686	-29.747	1.00	37.18	A16S
ATOM	18237	N3	C	A 875	149.587	121.216	-30.604	1.00	37.18	A16S
ATOM	18238	C4	C	A 875	150.709	120.525	-30.423	1.00	37.18	A16S
ATOM	18239	N4	C	A 875	151.123	119.740	-31.413	1.00	37.18	A16S
ATOM	18240	C5	C	A 875	151.457	120.603	-29.210	1.00	37.18	A16S
ATOM	18241	C2*	C	A 875	148.192	122.145	-26.516	1.00	48.58	A16S
ATOM	18242	O2*	C	A 875	147.130	123.042	-26.281	1.00	48.58	A16S



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ATOM	18243	C3*	C	A	875	148.982	121.742	-25.275	1.00	48.58	A16S
ATOM	18244	O3*	C	A	875	148.193	121.618	-24.104	1.00	48.58	A16S
ATOM	18245	P	G	A	876	147.520	120.206	-23.756	1.00	32.87	A16S
ATOM	18246	O1P	G	A	876	146.478	120.434	-22.723	1.00	49.01	A16S
ATOM	18247	O2P	G	A	876	148.614	119.220	-23.491	1.00	49.01	A16S
ATOM	18248	O5*	G	A	876	146.796	119.874	-25.127	1.00	32.87	A16S
ATOM	18249	C5*	G	A	876	146.426	118.555	-25.463	1.00	32.87	A16S
ATOM	18250	C4*	G	A	876	145.462	118.593	-26.601	1.00	32.87	A16S
ATOM	18251	O4*	G	A	876	146.013	119.379	-27.682	1.00	32.87	A16S
ATOM	18252	C1*	G	A	876	145.598	118.832	-28.921	1.00	32.87	A16S
ATOM	18253	N9	G	A	876	146.782	118.452	-29.691	1.00	49.01	A16S
ATOM	18254	C4	G	A	876	146.821	118.205	-31.043	1.00	49.01	A16S
ATOM	18255	N3	G	A	876	145.793	118.350	-31.905	1.00	49.01	A16S
ATOM	18256	C2	G	A	876	146.126	118.003	-33.132	1.00	49.01	A16S
ATOM	18257	N2	G	A	876	145.232	118.122	-34.121	1.00	49.01	A16S
ATOM	18258	N1	G	A	876	147.358	117.523	-33.478	1.00	49.01	A16S
ATOM	18259	C6	G	A	876	148.426	117.349	-32.604	1.00	49.01	A16S
ATOM	18260	O6	G	A	876	149.489	116.862	-33.015	1.00	49.01	A16S
ATOM	18261	C5	G	A	876	148.096	117.760	-31.295	1.00	49.01	A16S
ATOM	18262	N7	G	A	876	148.865	117.785	-30.142	1.00	49.01	A16S
ATOM	18263	C8	G	A	876	148.049	118.212	-29.218	1.00	49.01	A16S
ATOM	18264	C2*	G	A	876	144.720	117.613	-28.615	1.00	32.87	A16S
ATOM	18265	O2*	G	A	876	143.354	117.969	-28.655	1.00	32.87	A16S
ATOM	18266	C3*	G	A	876	145.169	117.250	-27.213	1.00	32.87	A16S
ATOM	18267	O3*	G	A	876	144.153	116.626	-26.488	1.00	32.87	A16S
ATOM	18268	P	C	A	877	144.178	115.048	-26.324	1.00	36.61	A16S
ATOM	18269	O1P	C	A	877	143.254	114.729	-25.213	1.00	66.04	A16S
ATOM	18270	O2P	C	A	877	145.586	114.591	-26.258	1.00	66.04	A16S
ATOM	18271	O5*	C	A	877	143.562	114.535	-27.692	1.00	36.61	A16S
ATOM	18272	C5*	C	A	877	142.170	114.643	-27.926	1.00	36.61	A16S
ATOM	18273	C4*	C	A	877	141.855	114.213	-29.323	1.00	36.61	A16S
ATOM	18274	O4*	C	A	877	142.540	115.100	-30.242	1.00	36.61	A16S
ATOM	18275	C1*	C	A	877	142.914	114.382	-31.408	1.00	36.61	A16S
ATOM	18276	N1	C	A	877	144.383	114.442	-31.561	1.00	66.04	A16S
ATOM	18277	C6	C	A	877	145.196	114.735	-30.500	1.00	66.04	A16S
ATOM	18278	C2	C	A	877	144.943	114.154	-32.820	1.00	66.04	A16S
ATOM	18279	O2	C	A	877	144.192	113.921	-33.774	1.00	66.04	A16S
ATOM	18280	N3	C	A	877	146.285	114.128	-32.960	1.00	66.04	A16S
ATOM	18281	C4	C	A	877	147.068	114.372	-31.911	1.00	66.04	A16S
ATOM	18282	N4	C	A	877	148.389	114.285	-32.091	1.00	66.04	A16S
ATOM	18283	C5	C	A	877	146.531	114.706	-30.628	1.00	66.04	A16S
ATOM	18284	C2*	C	A	877	142.435	112.937	-31.226	1.00	36.61	A16S
ATOM	18285	O2*	C	A	877	141.171	112.730	-31.816	1.00	36.61	A16S
ATOM	18286	C3*	C	A	877	142.353	112.838	-29.716	1.00	36.61	A16S
ATOM	18287	O3*	C	A	877	141.497	111.797	-29.334	1.00	36.61	A16S
ATOM	18288	P	G	A	878	142.118	110.343	-29.099	1.00	45.74	A16S
ATOM	18289	O1P	G	A	878	141.036	109.515	-28.512	1.00	53.28	A16S
ATOM	18290	O2P	G	A	878	143.418	110.487	-28.390	1.00	53.28	A16S
ATOM	18291	O5*	G	A	878	142.397	109.811	-30.564	1.00	45.74	A16S
ATOM	18292	C5*	G	A	878	141.310	109.642	-31.465	1.00	45.74	A16S
ATOM	18293	C4*	G	A	878	141.806	109.106	-32.771	1.00	45.74	A16S
ATOM	18294	O4*	G	A	878	142.717	110.070	-33.362	1.00	45.74	A16S
ATOM	18295	C1*	G	A	878	143.675	109.389	-34.158	1.00	45.74	A16S
ATOM	18296	N9	G	A	878	145.023	109.803	-33.764	1.00	53.28	A16S
ATOM	18297	C4	G	A	878	146.125	109.843	-34.589	1.00	53.28	A16S
ATOM	18298	N3	G	A	878	146.143	109.531	-35.899	1.00	53.28	A16S
ATOM	18299	C2	G	A	878	147.347	109.660	-36.424	1.00	53.28	A16S
ATOM	18300	N2	G	A	878	147.538	109.404	-37.727	1.00	53.28	A16S
ATOM	18301	N1	G	A	878	148.448	110.047	-35.721	1.00	53.28	A16S
ATOM	18302	C6	G	A	878	148.460	110.361	-34.376	1.00	53.28	A16S
ATOM	18303	O6	G	A	878	149.520	110.678	-33.839	1.00	53.28	A16S
ATOM	18304	C5	G	A	878	147.164	110.251	-33.795	1.00	53.28	A16S
ATOM	18305	N7	G	A	878	146.730	110.490	-32.497	1.00	53.28	A16S
ATOM	18306	C8	G	A	878	145.454	110.211	-32.527	1.00	53.28	A16S
ATOM	18307	C2*	G	A	878	143.411	107.889	-34.008	1.00	45.74	A16S
ATOM	18308	O2*	G	A	878	142.593	107.437	-35.073	1.00	45.74	A16S
ATOM	18309	C3*	G	A	878	142.648	107.851	-32.698	1.00	45.74	A16S
ATOM	18310	O3*	G	A	878	141.911	106.665	-32.538	1.00	45.74	A16S
ATOM	18311	P	C	A	879	142.497	105.541	-31.558	1.00	35.23	A16S
ATOM	18312	O1P	C	A	879	141.425	104.570	-31.142	1.00	42.50	A16S
ATOM	18313	O2P	C	A	879	143.244	106.298	-30.511	1.00	42.50	A16S
ATOM	18314	O5*	C	A	879	143.605	104.815	-32.452	1.00	35.23	A16S
ATOM	18315	C5*	C	A	879	143.216	104.010	-33.575	1.00	35.23	A16S
ATOM	18316	C4*	C	A	879	144.397	103.713	-34.469	1.00	35.23	A16S
ATOM	18317	O4*	C	A	879	144.888	104.934	-35.074	1.00	35.23	A16S
ATOM	18318	C1*	C	A	879	146.260	104.788	-35.367	1.00	35.23	A16S
ATOM	18319	N1	C	A	879	147.029	105.731	-34.553	1.00	42.50	A16S



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ATOM	18320	C6	C	A	879	146.595	106.131	-33.322	1.00	42.50	A16S
ATOM	18321	C2	C	A	879	148.254	106.157	-35.030	1.00	42.50	A16S
ATOM	18322	O2	C	A	879	148.582	105.848	-36.183	1.00	42.50	A16S
ATOM	18323	N3	C	A	879	149.058	106.891	-34.226	1.00	42.50	A16S
ATOM	18324	C4	C	A	879	148.663	107.202	-32.998	1.00	42.50	A16S
ATOM	18325	N4	C	A	879	149.518	107.832	-32.214	1.00	42.50	A16S
ATOM	18326	C5	C	A	879	147.381	106.856	-32.516	1.00	42.50	A16S
ATOM	18327	C2*	C	A	879	146.670	103.387	-34.922	1.00	35.23	A16S
ATOM	18328	O2*	C	A	879	146.547	102.495	-35.995	1.00	35.23	A16S
ATOM	18329	C3*	C	A	879	145.638	103.093	-33.858	1.00	35.23	A16S
ATOM	18330	O3*	C	A	879	145.535	101.705	-33.677	1.00	35.23	A16S
ATOM	18331	P	C	A	880	146.462	100.988	-32.581	1.00	39.29	A16S
ATOM	18332	O1P	C	A	880	145.931	99.604	-32.398	1.00	52.15	A16S
ATOM	18333	O2P	C	A	880	146.613	101.886	-31.401	1.00	52.15	A16S
ATOM	18334	O5*	C	A	880	147.867	100.881	-33.314	1.00	39.29	A16S
ATOM	18335	C5*	C	A	880	147.932	100.230	-34.569	1.00	39.29	A16S
ATOM	18336	C4*	C	A	880	149.310	100.300	-35.139	1.00	39.29	A16S
ATOM	18337	O4*	C	A	880	149.676	101.670	-35.425	1.00	39.29	A16S
ATOM	18338	C1*	C	A	880	151.067	101.831	-35.260	1.00	39.29	A16S
ATOM	18339	N1	C	A	880	151.290	102.795	-34.173	1.00	52.15	A16S
ATOM	18340	C6	C	A	880	150.409	102.899	-33.134	1.00	52.15	A16S
ATOM	18341	C2	C	A	880	152.442	103.591	-34.206	1.00	52.15	A16S
ATOM	18342	O2	C	A	880	153.210	103.516	-35.195	1.00	52.15	A16S
ATOM	18343	N3	C	A	880	152.688	104.426	-33.175	1.00	52.15	A16S
ATOM	18344	C4	C	A	880	151.833	104.496	-32.157	1.00	52.15	A16S
ATOM	18345	N4	C	A	880	152.134	105.315	-31.153	1.00	52.15	A16S
ATOM	18346	C5	C	A	880	150.639	103.727	-32.119	1.00	52.15	A16S
ATOM	18347	C2*	C	A	880	151.634	100.461	-34.897	1.00	39.29	A16S
ATOM	18348	O2*	C	A	880	151.991	99.799	-36.093	1.00	39.29	A16S
ATOM	18349	C3*	C	A	880	150.425	99.795	-34.263	1.00	39.29	A16S
ATOM	18350	O3*	C	A	880	150.502	98.393	-34.304	1.00	39.29	A16S
ATOM	18351	P	G	A	881	151.088	97.620	-33.038	1.00	46.63	A16S
ATOM	18352	O1P	G	A	881	150.864	96.173	-33.276	1.00	40.34	A16S
ATOM	18353	O2P	G	A	881	150.527	98.255	-31.818	1.00	40.34	A16S
ATOM	18354	O5*	G	A	881	152.639	97.991	-33.059	1.00	46.63	A16S
ATOM	18355	C5*	G	A	881	153.469	97.734	-34.213	1.00	46.63	A16S
ATOM	18356	C4*	G	A	881	154.891	98.215	-33.962	1.00	46.63	A16S
ATOM	18357	O4*	G	A	881	154.963	99.658	-34.100	1.00	46.63	A16S
ATOM	18358	C1*	G	A	881	155.910	100.184	-33.179	1.00	46.63	A16S
ATOM	18359	N9	G	A	881	155.204	101.019	-32.213	1.00	40.34	A16S
ATOM	18360	C4	G	A	881	155.769	101.921	-31.338	1.00	40.34	A16S
ATOM	18361	N3	G	A	881	157.075	102.257	-31.274	1.00	40.34	A16S
ATOM	18362	C2	G	A	881	157.304	103.141	-30.319	1.00	40.34	A16S
ATOM	18363	N2	G	A	881	158.534	103.635	-30.142	1.00	40.34	A16S
ATOM	18364	N1	G	A	881	156.339	103.622	-29.473	1.00	40.34	A16S
ATOM	18365	C6	G	A	881	155.000	103.274	-29.515	1.00	40.34	A16S
ATOM	18366	O6	G	A	881	154.215	103.745	-28.688	1.00	40.34	A16S
ATOM	18367	C5	G	A	881	154.732	102.365	-30.558	1.00	40.34	A16S
ATOM	18368	N7	G	A	881	153.534	101.796	-30.963	1.00	40.34	A16S
ATOM	18369	C8	G	A	881	153.859	101.016	-31.952	1.00	40.34	A16S
ATOM	18370	C2*	G	A	881	156.548	99.010	-32.439	1.00	46.63	A16S
ATOM	18371	O2*	G	A	881	157.758	98.685	-33.070	1.00	46.63	A16S
ATOM	18372	C3*	G	A	881	155.472	97.938	-32.575	1.00	46.63	A16S
ATOM	18373	O3*	G	A	881	155.972	96.610	-32.406	1.00	46.63	A16S
ATOM	18374	P	C	A	882	155.905	95.917	-30.950	1.00	41.41	A16S
ATOM	18375	O1P	C	A	882	156.514	94.558	-31.087	1.00	50.30	A16S
ATOM	18376	O2P	C	A	882	154.535	96.049	-30.381	1.00	50.30	A16S
ATOM	18377	O5*	C	A	882	156.909	96.812	-30.098	1.00	41.41	A16S
ATOM	18378	C5*	C	A	882	158.277	96.908	-30.505	1.00	41.41	A16S
ATOM	18379	C4*	C	A	882	159.025	97.908	-29.668	1.00	41.41	A16S
ATOM	18380	O4*	C	A	882	158.519	99.244	-29.906	1.00	41.41	A16S
ATOM	18381	C1*	C	A	882	158.599	99.993	-28.705	1.00	41.41	A16S
ATOM	18382	N1	C	A	882	157.238	100.334	-28.259	1.00	50.30	A16S
ATOM	18383	C6	C	A	882	156.154	99.628	-28.698	1.00	50.30	A16S
ATOM	18384	C2	C	A	882	157.077	101.370	-27.350	1.00	50.30	A16S
ATOM	18385	O2	C	A	882	158.063	102.033	-27.024	1.00	50.30	A16S
ATOM	18386	N3	C	A	882	155.849	101.629	-26.855	1.00	50.30	A16S
ATOM	18387	C4	C	A	882	154.803	100.902	-27.256	1.00	50.30	A16S
ATOM	18388	N4	C	A	882	153.612	101.149	-26.702	1.00	50.30	A16S
ATOM	18389	C5	C	A	882	154.932	99.878	-28.229	1.00	50.30	A16S
ATOM	18390	C2*	C	A	882	159.280	99.107	-27.663	1.00	41.41	A16S
ATOM	18391	O2*	C	A	882	160.663	99.352	-27.735	1.00	41.41	A16S
ATOM	18392	C3*	C	A	882	158.952	97.716	-28.171	1.00	41.41	A16S
ATOM	18393	O3*	C	A	882	159.934	96.796	-27.765	1.00	41.41	A16S
ATOM	18394	P	C	A	883	159.952	96.264	-26.249	1.00	47.01	A16S
ATOM	18395	O1P	C	A	883	161.068	95.276	-26.147	1.00	61.64	A16S
ATOM	18396	O2P	C	A	883	158.583	95.855	-25.864	1.00	61.64	A16S



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ATOM	18397	O5*	C	A	883	160.339	97.539	-25.382	1.00	47.01	A16S
ATOM	18398	C5*	C	A	883	161.643	98.122	-25.490	1.00	47.01	A16S
ATOM	18399	C4*	C	A	883	161.928	98.968	-24.287	1.00	47.01	A16S
ATOM	18400	O4*	C	A	883	161.076	100.137	-24.301	1.00	47.01	A16S
ATOM	18401	C1*	C	A	883	160.631	100.406	-22.990	1.00	47.01	A16S
ATOM	18402	N1	C	A	883	159.161	100.377	-22.995	1.00	61.64	A16S
ATOM	18403	C6	C	A	883	158.468	99.671	-23.939	1.00	61.64	A16S
ATOM	18404	C2	C	A	883	158.487	101.111	-22.045	1.00	61.64	A16S
ATOM	18405	O2	C	A	883	159.140	101.690	-21.179	1.00	61.64	A16S
ATOM	18406	N3	C	A	883	157.141	101.178	-22.088	1.00	61.64	A16S
ATOM	18407	C4	C	A	883	156.475	100.530	-23.039	1.00	61.64	A16S
ATOM	18408	N4	C	A	883	155.158	100.670	-23.077	1.00	61.64	A16S
ATOM	18409	C5	C	A	883	157.134	99.723	-23.998	1.00	61.64	A16S
ATOM	18410	C2*	C	A	883	161.311	99.414	-22.041	1.00	47.01	A16S
ATOM	18411	O2*	C	A	883	162.504	99.999	-21.579	1.00	47.01	A16S
ATOM	18412	C3*	C	A	883	161.653	98.265	-22.973	1.00	47.01	A16S
ATOM	18413	O3*	C	A	883	162.847	97.626	-22.561	1.00	47.01	A16S
ATOM	18414	P	U	A	884	162.805	96.551	-21.374	1.00	50.84	A16S
ATOM	18415	O1P	U	A	884	164.217	96.254	-21.029	1.00	58.19	A16S
ATOM	18416	O2P	U	A	884	161.877	95.443	-21.721	1.00	58.19	A16S
ATOM	18417	O5*	U	A	884	162.160	97.341	-20.158	1.00	50.84	A16S
ATOM	18418	C5*	U	A	884	162.936	98.277	-19.414	1.00	50.84	A16S
ATOM	18419	C4*	U	A	884	162.313	98.506	-18.066	1.00	50.84	A16S
ATOM	18420	O4*	U	A	884	161.069	99.241	-18.206	1.00	50.84	A16S
ATOM	18421	C1*	U	A	884	160.035	98.537	-17.570	1.00	50.84	A16S
ATOM	18422	N1	U	A	884	158.790	98.809	-18.296	1.00	58.19	A16S
ATOM	18423	C6	U	A	884	158.473	98.190	-19.478	1.00	58.19	A16S
ATOM	18424	C2	U	A	884	157.950	99.748	-17.745	1.00	58.19	A16S
ATOM	18425	O2	U	A	884	158.192	100.303	-16.693	1.00	58.19	A16S
ATOM	18426	N3	U	A	884	156.818	100.020	-18.471	1.00	58.19	A16S
ATOM	18427	C4	U	A	884	156.451	99.454	-19.667	1.00	58.19	A16S
ATOM	18428	O4	U	A	884	155.443	99.859	-20.239	1.00	58.19	A16S
ATOM	18429	C5	U	A	884	157.361	98.474	-20.166	1.00	58.19	A16S
ATOM	18430	C2*	U	A	884	160.488	97.084	-17.492	1.00	50.84	A16S
ATOM	18431	O2*	U	A	884	159.837	96.451	-16.416	1.00	50.84	A16S
ATOM	18432	C3*	U	A	884	161.993	97.245	-17.283	1.00	50.84	A16S
ATOM	18433	O3*	U	A	884	162.280	97.527	-15.931	1.00	50.84	A16S
ATOM	18434	P	G	A	885	163.370	96.655	-15.143	1.00	44.92	A16S
ATOM	18435	O1P	G	A	885	163.341	95.265	-15.650	1.00	47.77	A16S
ATOM	18436	O2P	G	A	885	163.127	96.926	-13.705	1.00	47.77	A16S
ATOM	18437	O5*	G	A	885	164.787	97.282	-15.486	1.00	44.92	A16S
ATOM	18438	C5*	G	A	885	164.974	98.694	-15.492	1.00	44.92	A16S
ATOM	18439	C4*	G	A	885	166.362	99.046	-15.030	1.00	44.92	A16S
ATOM	18440	O4*	G	A	885	166.468	98.854	-13.598	1.00	44.92	A16S
ATOM	18441	C1*	G	A	885	167.799	98.486	-13.263	1.00	44.92	A16S
ATOM	18442	N9	G	A	885	167.767	97.161	-12.650	1.00	47.77	A16S
ATOM	18443	C4	G	A	885	168.791	96.528	-11.984	1.00	47.77	A16S
ATOM	18444	N3	G	A	885	170.007	97.037	-11.740	1.00	47.77	A16S
ATOM	18445	C2	G	A	885	170.782	96.171	-11.128	1.00	47.77	A16S
ATOM	18446	N2	G	A	885	172.023	96.510	-10.813	1.00	47.77	A16S
ATOM	18447	N1	G	A	885	170.398	94.908	-10.783	1.00	47.77	A16S
ATOM	18448	C6	G	A	885	169.150	94.361	-11.031	1.00	47.77	A16S
ATOM	18449	O6	G	A	885	168.907	93.192	-10.704	1.00	47.77	A16S
ATOM	18450	C5	G	A	885	168.307	95.279	-11.672	1.00	47.77	A16S
ATOM	18451	N7	G	A	885	166.997	95.141	-12.093	1.00	47.77	A16S
ATOM	18452	C8	G	A	885	166.716	96.282	-12.660	1.00	47.77	A16S
ATOM	18453	C2*	G	A	885	168.605	98.482	-14.564	1.00	44.92	A16S
ATOM	18454	O2*	G	A	885	169.187	99.758	-14.765	1.00	44.92	A16S
ATOM	18455	C3*	G	A	885	167.514	98.231	-15.592	1.00	44.92	A16S
ATOM	18456	O3*	G	A	885	167.913	98.615	-16.901	1.00	44.92	A16S
ATOM	18457	P	G	A	886	168.665	97.539	-17.832	1.00	41.28	A16S
ATOM	18458	O1P	G	A	886	168.973	98.204	-19.124	1.00	44.88	A16S
ATOM	18459	O2P	G	A	886	167.885	96.271	-17.815	1.00	44.88	A16S
ATOM	18460	O5*	G	A	886	170.045	97.279	-17.084	1.00	41.28	A16S
ATOM	18461	C5*	G	A	886	171.054	98.296	-17.079	1.00	41.28	A16S
ATOM	18462	C4*	G	A	886	172.356	97.766	-16.529	1.00	41.28	A16S
ATOM	18463	O4*	G	A	886	172.243	97.510	-15.107	1.00	41.28	A16S
ATOM	18464	C1*	G	A	886	173.130	96.477	-14.749	1.00	41.28	A16S
ATOM	18465	N9	G	A	886	172.358	95.361	-14.223	1.00	44.88	A16S
ATOM	18466	C4	G	A	886	172.874	94.254	-13.621	1.00	44.88	A16S
ATOM	18467	N3	G	A	886	174.178	94.030	-13.385	1.00	44.88	A16S
ATOM	18468	C2	G	A	886	174.378	92.867	-12.816	1.00	44.88	A16S
ATOM	18469	N2	G	A	886	175.631	92.500	-12.497	1.00	44.88	A16S
ATOM	18470	N1	G	A	886	173.368	91.981	-12.512	1.00	44.88	A16S
ATOM	18471	C6	G	A	886	172.016	92.196	-12.751	1.00	44.88	A16S
ATOM	18472	O6	G	A	886	171.183	91.330	-12.449	1.00	44.88	A16S
ATOM	18473	C5	G	A	886	171.796	93.446	-13.346	1.00	44.88	A16S



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ATOM	18474	N7	G	A	886	170.619	94.047	-13.748	1.00	44.88	A16S
ATOM	18475	C8	G	A	886	171.002	95.186	-14.258	1.00	44.88	A16S
ATOM	18476	C2*	G	A	886	173.875	96.062	-16.017	1.00	41.28	A16S
ATOM	18477	O2*	G	A	886	175.027	96.869	-16.139	1.00	41.28	A16S
ATOM	18478	C3*	G	A	886	172.891	96.463	-17.091	1.00	41.28	A16S
ATOM	18479	O3*	G	A	886	173.570	96.646	-18.311	1.00	41.28	A16S
ATOM	18480	P	G	A	887	173.532	95.479	-19.410	1.00	57.12	A16S
ATOM	18481	O1P	G	A	887	174.232	96.012	-20.619	1.00	58.51	A16S
ATOM	18482	O2P	G	A	887	172.135	94.998	-19.517	1.00	58.51	A16S
ATOM	18483	O5*	G	A	887	174.407	94.314	-18.765	1.00	57.12	A16S
ATOM	18484	C5*	G	A	887	175.801	94.527	-18.528	1.00	57.12	A16S
ATOM	18485	C4*	G	A	887	176.403	93.404	-17.727	1.00	57.12	A16S
ATOM	18486	O4*	G	A	887	175.766	93.304	-16.427	1.00	57.12	A16S
ATOM	18487	C1*	G	A	887	175.825	91.959	-15.980	1.00	57.12	A16S
ATOM	18488	N9	G	A	887	174.468	91.447	-15.824	1.00	58.51	A16S
ATOM	18489	C4	G	A	887	174.136	90.279	-15.209	1.00	58.51	A16S
ATOM	18490	N3	G	A	887	174.994	89.453	-14.586	1.00	58.51	A16S
ATOM	18491	C2	G	A	887	174.385	88.391	-14.101	1.00	58.51	A16S
ATOM	18492	N2	G	A	887	175.088	87.476	-13.424	1.00	58.51	A16S
ATOM	18493	N1	G	A	887	173.043	88.153	-14.238	1.00	58.51	A16S
ATOM	18494	C6	G	A	887	172.144	88.995	-14.881	1.00	58.51	A16S
ATOM	18495	O6	G	A	887	170.948	88.688	-14.950	1.00	58.51	A16S
ATOM	18496	C5	G	A	887	172.781	90.140	-15.386	1.00	58.51	A16S
ATOM	18497	N7	G	A	887	172.261	91.224	-16.071	1.00	58.51	A16S
ATOM	18498	C8	G	A	887	173.297	91.983	-16.300	1.00	58.51	A16S
ATOM	18499	C2*	G	A	887	176.534	91.142	-17.064	1.00	57.12	A16S
ATOM	18500	O2*	G	A	887	177.902	90.977	-16.736	1.00	57.12	A16S
ATOM	18501	C3*	G	A	887	176.300	92.006	-18.297	1.00	57.12	A16S
ATOM	18502	O3*	G	A	887	177.256	91.760	-19.306	1.00	57.12	A16S
ATOM	18503	P	G	A	888	176.831	90.914	-20.602	1.00	57.06	A16S
ATOM	18504	O1P	G	A	888	178.067	90.728	-21.414	1.00	69.37	A16S
ATOM	18505	O2P	G	A	888	175.653	91.568	-21.222	1.00	69.37	A16S
ATOM	18506	O5*	G	A	888	176.376	89.504	-20.005	1.00	57.06	A16S
ATOM	18507	C5*	G	A	888	177.345	88.620	-19.414	1.00	57.06	A16S
ATOM	18508	C4*	G	A	888	176.674	87.406	-18.835	1.00	57.06	A16S
ATOM	18509	O4*	G	A	888	175.772	87.827	-17.789	1.00	57.06	A16S
ATOM	18510	C1*	G	A	888	174.606	87.023	-17.811	1.00	57.06	A16S
ATOM	18511	N9	G	A	888	173.478	87.891	-18.125	1.00	69.37	A16S
ATOM	18512	C4	G	A	888	172.155	87.630	-17.904	1.00	69.37	A16S
ATOM	18513	N3	G	A	888	171.654	86.508	-17.358	1.00	69.37	A16S
ATOM	18514	C2	G	A	888	170.334	86.546	-17.275	1.00	69.37	A16S
ATOM	18515	N2	G	A	888	169.663	85.502	-16.759	1.00	69.37	A16S
ATOM	18516	N1	G	A	888	169.572	87.611	-17.693	1.00	69.37	A16S
ATOM	18517	C6	G	A	888	170.073	88.781	-18.258	1.00	69.37	A16S
ATOM	18518	O6	G	A	888	169.296	89.695	-18.598	1.00	69.37	A16S
ATOM	18519	C5	G	A	888	171.482	88.743	-18.356	1.00	69.37	A16S
ATOM	18520	N7	G	A	888	172.367	89.683	-18.856	1.00	69.37	A16S
ATOM	18521	C8	G	A	888	173.537	89.135	-18.702	1.00	69.37	A16S
ATOM	18522	C2*	G	A	888	174.810	85.940	-18.869	1.00	57.06	A16S
ATOM	18523	O2*	G	A	888	175.328	84.779	-18.250	1.00	57.06	A16S
ATOM	18524	C3*	G	A	888	175.820	86.603	-19.796	1.00	57.06	A16S
ATOM	18525	O3*	G	A	888	176.607	85.633	-20.463	1.00	57.06	A16S
ATOM	18526	P	A	A	889	176.259	85.223	-21.976	1.00	59.12	A16S
ATOM	18527	O1P	A	A	889	175.085	84.304	-21.967	1.00	55.96	A16S
ATOM	18528	O2P	A	A	889	177.530	84.779	-22.590	1.00	55.96	A16S
ATOM	18529	O5*	A	A	889	175.860	86.602	-22.649	1.00	59.12	A16S
ATOM	18530	C5*	A	A	889	176.106	86.833	-24.029	1.00	59.12	A16S
ATOM	18531	C4*	A	A	889	175.062	87.759	-24.560	1.00	59.12	A16S
ATOM	18532	O4*	A	A	889	173.773	87.150	-24.306	1.00	59.12	A16S
ATOM	18533	C1*	A	A	889	172.972	88.049	-23.577	1.00	59.12	A16S
ATOM	18534	N9	A	A	889	172.077	87.291	-22.713	1.00	55.96	A16S
ATOM	18535	C4	A	A	889	170.767	87.617	-22.491	1.00	55.96	A16S
ATOM	18536	N3	A	A	889	170.098	88.660	-23.004	1.00	55.96	A16S
ATOM	18537	C2	A	A	889	168.854	88.680	-22.549	1.00	55.96	A16S
ATOM	18538	N1	A	A	889	168.244	87.834	-21.715	1.00	55.96	A16S
ATOM	18539	C6	A	A	889	168.937	86.782	-21.238	1.00	55.96	A16S
ATOM	18540	N6	A	A	889	168.309	85.915	-20.442	1.00	55.96	A16S
ATOM	18541	C5	A	A	889	170.279	86.661	-21.627	1.00	55.96	A16S
ATOM	18542	N7	A	A	889	171.266	85.740	-21.310	1.00	55.96	A16S
ATOM	18543	C8	A	A	889	172.312	86.160	-21.980	1.00	55.96	A16S
ATOM	18544	C2*	A	A	889	173.923	89.012	-22.869	1.00	59.12	A16S
ATOM	18545	O2*	A	A	889	173.291	90.266	-22.694	1.00	59.12	A16S
ATOM	18546	C3*	A	A	889	175.029	89.138	-23.903	1.00	59.12	A16S
ATOM	18547	O3*	A	A	889	174.548	90.066	-24.851	1.00	59.12	A16S
ATOM	18548	P	G	A	890	175.535	90.674	-25.939	1.00	59.06	A16S
ATOM	18549	O1P	G	A	890	176.324	89.534	-26.477	1.00	71.23	A16S
ATOM	18550	O2P	G	A	890	176.232	91.826	-25.311	1.00	71.23	A16S



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ATOM	18551	O5*	G	A	890	174.547	91.217	-27.065	1.00	59.06	A16S
ATOM	18552	C5*	G	A	890	174.422	90.548	-28.341	1.00	59.06	A16S
ATOM	18553	C4*	G	A	890	173.381	89.445	-28.266	1.00	59.06	A16S
ATOM	18554	O4*	G	A	890	172.097	89.967	-27.828	1.00	59.06	A16S
ATOM	18555	C1*	G	A	890	171.100	89.545	-28.722	1.00	59.06	A16S
ATOM	18556	N9	G	A	890	169.983	90.467	-28.644	1.00	71.23	A16S
ATOM	18557	C4	G	A	890	168.819	90.256	-27.948	1.00	71.23	A16S
ATOM	18558	N3	G	A	890	168.504	89.147	-27.251	1.00	71.23	A16S
ATOM	18559	C2	G	A	890	167.326	89.246	-26.667	1.00	71.23	A16S
ATOM	18560	N2	G	A	890	166.847	88.230	-25.951	1.00	71.23	A16S
ATOM	18561	N1	G	A	890	166.523	90.348	-26.744	1.00	71.23	A16S
ATOM	18562	C6	G	A	890	166.818	91.506	-27.460	1.00	71.23	A16S
ATOM	18563	O6	G	A	890	166.005	92.463	-27.469	1.00	71.23	A16S
ATOM	18564	C5	G	A	890	168.086	91.404	-28.109	1.00	71.23	A16S
ATOM	18565	N7	G	A	890	168.762	92.310	-28.916	1.00	71.23	A16S
ATOM	18566	C8	G	A	890	169.881	91.707	-29.211	1.00	71.23	A16S
ATOM	18567	C2*	G	A	890	171.817	89.390	-30.054	1.00	59.06	A16S
ATOM	18568	O2*	G	A	890	171.076	88.596	-30.944	1.00	59.06	A16S
ATOM	18569	C3*	G	A	890	173.098	88.724	-29.578	1.00	59.06	A16S
ATOM	18570	O3*	G	A	890	172.789	87.384	-29.215	1.00	59.06	A16S
ATOM	18571	P	U	A	891	172.907	86.201	-30.290	1.00	64.43	A16S
ATOM	18572	O1P	U	A	891	173.983	86.606	-31.238	1.00	58.22	A16S
ATOM	18573	O2P	U	A	891	171.554	85.846	-30.819	1.00	58.22	A16S
ATOM	18574	O5*	U	A	891	173.400	84.983	-29.389	1.00	64.43	A16S
ATOM	18575	C5*	U	A	891	174.711	84.994	-28.800	1.00	64.43	A16S
ATOM	18576	C4*	U	A	891	174.703	84.306	-27.454	1.00	64.43	A16S
ATOM	18577	O4*	U	A	891	174.174	85.181	-26.428	1.00	64.43	A16S
ATOM	18578	C1*	U	A	891	173.507	84.410	-25.446	1.00	64.43	A16S
ATOM	18579	N1	U	A	891	172.108	84.858	-25.356	1.00	58.22	A16S
ATOM	18580	C6	U	A	891	171.584	85.814	-26.203	1.00	58.22	A16S
ATOM	18581	C2	U	A	891	171.320	84.270	-24.380	1.00	58.22	A16S
ATOM	18582	O2	U	A	891	171.737	83.415	-23.617	1.00	58.22	A16S
ATOM	18583	N3	U	A	891	170.024	84.710	-24.330	1.00	58.22	A16S
ATOM	18584	C4	U	A	891	169.434	85.650	-25.134	1.00	58.22	A16S
ATOM	18585	O4	U	A	891	168.250	85.942	-24.942	1.00	58.22	A16S
ATOM	18586	C5	U	A	891	170.307	86.218	-26.131	1.00	58.22	A16S
ATOM	18587	C2*	U	A	891	173.625	82.937	-25.848	1.00	64.43	A16S
ATOM	18588	O2*	U	A	891	174.701	82.353	-25.146	1.00	64.43	A16S
ATOM	18589	C3*	U	A	891	173.878	83.040	-27.347	1.00	64.43	A16S
ATOM	18590	O3*	U	A	891	174.587	81.927	-27.845	1.00	64.43	A16S
ATOM	18591	P	A	A	892	173.805	80.799	-28.671	1.00	54.07	A16S
ATOM	18592	O1P	A	A	892	174.839	79.870	-29.172	1.00	49.08	A16S
ATOM	18593	O2P	A	A	892	172.884	81.447	-29.633	1.00	49.08	A16S
ATOM	18594	O5*	A	A	892	172.978	80.018	-27.561	1.00	54.07	A16S
ATOM	18595	C5*	A	A	892	173.666	79.275	-26.556	1.00	54.07	A16S
ATOM	18596	C4*	A	A	892	172.687	78.597	-25.644	1.00	54.07	A16S
ATOM	18597	O4*	A	A	892	172.005	79.588	-24.843	1.00	54.07	A16S
ATOM	18598	C1*	A	A	892	170.662	79.187	-24.636	1.00	54.07	A16S
ATOM	18599	N9	A	A	892	169.796	80.230	-25.181	1.00	49.08	A16S
ATOM	18600	C4	A	A	892	168.468	80.404	-24.903	1.00	49.08	A16S
ATOM	18601	N3	A	A	892	167.703	79.638	-24.119	1.00	49.08	A16S
ATOM	18602	C2	A	A	892	166.468	80.124	-24.067	1.00	49.08	A16S
ATOM	18603	N1	A	A	892	165.956	81.212	-24.660	1.00	49.08	A16S
ATOM	18604	C6	A	A	892	166.762	81.959	-25.437	1.00	49.08	A16S
ATOM	18605	N6	A	A	892	166.262	83.054	-26.012	1.00	49.08	A16S
ATOM	18606	C5	A	A	892	168.085	81.542	-25.586	1.00	49.08	A16S
ATOM	18607	N7	A	A	892	169.144	82.057	-26.311	1.00	49.08	A16S
ATOM	18608	C8	A	A	892	170.133	81.242	-26.042	1.00	49.08	A16S
ATOM	18609	C2*	A	A	892	170.465	77.828	-25.307	1.00	54.07	A16S
ATOM	18610	O2*	A	A	892	170.638	76.780	-24.378	1.00	54.07	A16S
ATOM	18611	C3*	A	A	892	171.575	77.846	-26.343	1.00	54.07	A16S
ATOM	18612	O3*	A	A	892	171.962	76.547	-26.717	1.00	54.07	A16S
ATOM	18613	P	C	A	893	171.357	75.924	-28.056	1.00	56.35	A16S
ATOM	18614	O1P	C	A	893	172.083	74.661	-28.325	1.00	62.06	A16S
ATOM	18615	O2P	C	A	893	171.367	77.015	-29.066	1.00	62.06	A16S
ATOM	18616	O5*	C	A	893	169.858	75.593	-27.654	1.00	56.35	A16S
ATOM	18617	C5*	C	A	893	169.585	74.718	-26.561	1.00	56.35	A16S
ATOM	18618	C4*	C	A	893	168.113	74.714	-26.260	1.00	56.35	A16S
ATOM	18619	O4*	C	A	893	167.740	75.980	-25.658	1.00	56.35	A16S
ATOM	18620	C1*	C	A	893	166.414	76.315	-26.041	1.00	56.35	A16S
ATOM	18621	N1	C	A	893	166.410	77.642	-26.693	1.00	62.06	A16S
ATOM	18622	C6	C	A	893	167.530	78.124	-27.310	1.00	62.06	A16S
ATOM	18623	C2	C	A	893	165.212	78.414	-26.685	1.00	62.06	A16S
ATOM	18624	O2	C	A	893	164.187	77.965	-26.110	1.00	62.06	A16S
ATOM	18625	N3	C	A	893	165.205	79.620	-27.304	1.00	62.06	A16S
ATOM	18626	C4	C	A	893	166.303	80.060	-27.916	1.00	62.06	A16S
ATOM	18627	N4	C	A	893	166.239	81.235	-28.532	1.00	62.06	A16S



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ATOM	18628	C5	C	A	893	167.519	79.312	-27.928	1.00	62.06	A16S
ATOM	18629	C2*	C	A	893	165.898	75.207	-26.962	1.00	56.35	A16S
ATOM	18630	O2*	C	A	893	165.118	74.288	-26.223	1.00	56.35	A16S
ATOM	18631	C3*	C	A	893	167.196	74.594	-27.467	1.00	56.35	A16S
ATOM	18632	O3*	C	A	893	167.026	73.263	-27.946	1.00	56.35	A16S
ATOM	18633	P	G	A	894	166.816	73.024	-29.525	1.00	55.14	A16S
ATOM	18634	O1P	G	A	894	166.792	71.559	-29.771	1.00	48.57	A16S
ATOM	18635	O2P	G	A	894	167.790	73.878	-30.262	1.00	48.57	A16S
ATOM	18636	O5*	G	A	894	165.363	73.608	-29.803	1.00	55.14	A16S
ATOM	18637	C5*	G	A	894	164.212	73.025	-29.179	1.00	55.14	A16S
ATOM	18638	C4*	G	A	894	162.975	73.808	-29.532	1.00	55.14	A16S
ATOM	18639	O4*	G	A	894	162.998	75.111	-28.900	1.00	55.14	A16S
ATOM	18640	C1*	G	A	894	162.379	76.062	-29.755	1.00	55.14	A16S
ATOM	18641	N9	G	A	894	163.348	77.111	-30.071	1.00	48.57	A16S
ATOM	18642	C4	G	A	894	163.068	78.355	-30.605	1.00	48.57	A16S
ATOM	18643	N3	G	A	894	161.846	78.826	-30.931	1.00	48.57	A16S
ATOM	18644	C2	G	A	894	161.904	80.058	-31.403	1.00	48.57	A16S
ATOM	18645	N2	G	A	894	160.781	80.689	-31.758	1.00	48.57	A16S
ATOM	18646	N1	G	A	894	163.063	80.764	-31.553	1.00	48.57	A16S
ATOM	18647	C6	G	A	894	164.328	80.306	-31.217	1.00	48.57	A16S
ATOM	18648	O6	G	A	894	165.310	81.042	-31.371	1.00	48.57	A16S
ATOM	18649	C5	G	A	894	164.285	78.989	-30.709	1.00	48.57	A16S
ATOM	18650	N7	G	A	894	165.308	78.169	-30.261	1.00	48.57	A16S
ATOM	18651	C8	G	A	894	164.707	77.066	-29.894	1.00	48.57	A16S
ATOM	18652	C2*	G	A	894	161.896	75.320	-30.996	1.00	55.14	A16S
ATOM	18653	O2*	G	A	894	160.564	74.910	-30.797	1.00	55.14	A16S
ATOM	18654	C3*	G	A	894	162.823	74.121	-31.004	1.00	55.14	A16S
ATOM	18655	O3*	G	A	894	162.269	73.042	-31.706	1.00	55.14	A16S
ATOM	18656	P	G	A	895	162.550	72.914	-33.275	1.00	50.11	A16S
ATOM	18657	O1P	G	A	895	161.966	71.607	-33.707	1.00	51.95	A16S
ATOM	18658	O2P	G	A	895	163.993	73.193	-33.500	1.00	51.95	A16S
ATOM	18659	O5*	G	A	895	161.725	74.127	-33.904	1.00	50.11	A16S
ATOM	18660	C5*	G	A	895	160.298	74.176	-33.790	1.00	50.11	A16S
ATOM	18661	C4*	G	A	895	159.783	75.501	-34.272	1.00	50.11	A16S
ATOM	18662	O4*	G	A	895	160.346	76.541	-33.444	1.00	50.11	A16S
ATOM	18663	C1*	G	A	895	160.545	77.708	-34.222	1.00	50.11	A16S
ATOM	18664	N9	G	A	895	161.953	78.086	-34.157	1.00	51.95	A16S
ATOM	18665	C4	G	A	895	162.481	79.287	-34.549	1.00	51.95	A16S
ATOM	18666	N3	G	A	895	161.794	80.308	-35.082	1.00	51.95	A16S
ATOM	18667	C2	G	A	895	162.566	81.339	-35.331	1.00	51.95	A16S
ATOM	18668	N2	G	A	895	162.038	82.440	-35.864	1.00	51.95	A16S
ATOM	18669	N1	G	A	895	163.908	81.366	-35.077	1.00	51.95	A16S
ATOM	18670	C6	G	A	895	164.638	80.316	-34.535	1.00	51.95	A16S
ATOM	18671	O6	G	A	895	165.854	80.434	-34.355	1.00	51.95	A16S
ATOM	18672	C5	G	A	895	163.821	79.209	-34.262	1.00	51.95	A16S
ATOM	18673	N7	G	A	895	164.138	77.977	-33.717	1.00	51.95	A16S
ATOM	18674	C8	G	A	895	163.001	77.339	-33.681	1.00	51.95	A16S
ATOM	18675	C2*	G	A	895	160.087	77.413	-35.647	1.00	50.11	A16S
ATOM	18676	O2*	G	A	895	158.766	77.876	-35.822	1.00	50.11	A16S
ATOM	18677	C3*	G	A	895	160.175	75.899	-35.683	1.00	50.11	A16S
ATOM	18678	O3*	G	A	895	159.316	75.365	-36.672	1.00	50.11	A16S
ATOM	18679	P	C	A	896	159.898	75.088	-38.145	1.00	63.28	A16S
ATOM	18680	O1P	C	A	896	158.873	74.283	-38.875	1.00	40.30	A16S
ATOM	18681	O2P	C	A	896	161.268	74.547	-37.998	1.00	40.30	A16S
ATOM	18682	O5*	C	A	896	160.022	76.545	-38.781	1.00	63.28	A16S
ATOM	18683	C5*	C	A	896	158.843	77.302	-39.072	1.00	63.28	A16S
ATOM	18684	C4*	C	A	896	159.200	78.666	-39.595	1.00	63.28	A16S
ATOM	18685	O4*	C	A	896	159.826	79.436	-38.544	1.00	63.28	A16S
ATOM	18686	C1*	C	A	896	160.781	80.317	-39.106	1.00	63.28	A16S
ATOM	18687	N1	C	A	896	162.110	79.948	-38.604	1.00	40.30	A16S
ATOM	18688	C6	C	A	896	162.342	78.713	-38.071	1.00	40.30	A16S
ATOM	18689	C2	C	A	896	163.142	80.878	-38.699	1.00	40.30	A16S
ATOM	18690	O2	C	A	896	162.891	81.997	-39.166	1.00	40.30	A16S
ATOM	18691	N3	C	A	896	164.380	80.534	-38.286	1.00	40.30	A16S
ATOM	18692	C4	C	A	896	164.600	79.320	-37.793	1.00	40.30	A16S
ATOM	18693	N4	C	A	896	165.828	79.008	-37.431	1.00	40.30	A16S
ATOM	18694	C5	C	A	896	163.562	78.364	-37.658	1.00	40.30	A16S
ATOM	18695	C2*	C	A	896	160.735	80.139	-40.618	1.00	63.28	A16S
ATOM	18696	O2*	C	A	896	159.870	81.102	-41.181	1.00	63.28	A16S
ATOM	18697	C3*	C	A	896	160.197	78.725	-40.734	1.00	63.28	A16S
ATOM	18698	O3*	C	A	896	159.613	78.501	-41.997	1.00	63.28	A16S
ATOM	18699	P	C	A	897	160.487	77.797	-43.148	1.00	58.77	A16S
ATOM	18700	O1P	C	A	897	159.546	77.587	-44.283	1.00	49.86	A16S
ATOM	18701	O2P	C	A	897	161.207	76.633	-42.572	1.00	49.86	A16S
ATOM	18702	O5*	C	A	897	161.548	78.917	-43.539	1.00	58.77	A16S
ATOM	18703	C5*	C	A	897	161.090	80.157	-44.073	1.00	58.77	A16S
ATOM	18704	C4*	C	A	897	162.225	81.136	-44.230	1.00	58.77	A16S



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ATOM	18705	O4*	C	A	897	162.738	81.550	-42.936	1.00	58.77	A16S
ATOM	18706	C1*	C	A	897	164.099	81.931	-43.069	1.00	58.77	A16S
ATOM	18707	N1	C	A	897	164.938	81.089	-42.208	1.00	49.86	A16S
ATOM	18708	C6	C	A	897	164.491	79.905	-41.686	1.00	49.86	A16S
ATOM	18709	C2	C	A	897	166.240	81.511	-41.977	1.00	49.86	A16S
ATOM	18710	O2	C	A	897	166.582	82.632	-42.405	1.00	49.86	A16S
ATOM	18711	N3	C	A	897	167.089	80.703	-41.297	1.00	49.86	A16S
ATOM	18712	C4	C	A	897	166.660	79.529	-40.837	1.00	49.86	A16S
ATOM	18713	N4	C	A	897	167.537	78.749	-40.220	1.00	49.86	A16S
ATOM	18714	C5	C	A	897	165.312	79.101	-41.001	1.00	49.86	A16S
ATOM	18715	C2*	C	A	897	164.505	81.694	-44.521	1.00	58.77	A16S
ATOM	18716	O2*	C	A	897	164.473	82.927	-45.210	1.00	58.77	A16S
ATOM	18717	C3*	C	A	897	163.460	80.675	-44.967	1.00	58.77	A16S
ATOM	18718	O3*	C	A	897	163.288	80.635	-46.362	1.00	58.77	A16S
ATOM	18719	P	G	A	898	164.121	79.558	-47.211	1.00	57.99	A16S
ATOM	18720	O1P	G	A	898	163.731	79.739	-48.634	1.00	54.94	A16S
ATOM	18721	O2P	G	A	898	163.977	78.222	-46.570	1.00	54.94	A16S
ATOM	18722	O5*	G	A	898	165.631	80.040	-47.045	1.00	57.99	A16S
ATOM	18723	C5*	G	A	898	166.083	81.215	-47.728	1.00	57.99	A16S
ATOM	18724	C4*	G	A	898	167.554	81.404	-47.524	1.00	57.99	A16S
ATOM	18725	O4*	G	A	898	167.813	81.754	-46.145	1.00	57.99	A16S
ATOM	18726	C1*	G	A	898	169.063	81.219	-45.747	1.00	57.99	A16S
ATOM	18727	N9	G	A	898	168.809	80.187	-44.765	1.00	54.94	A16S
ATOM	18728	C4	G	A	898	169.730	79.603	-43.934	1.00	54.94	A16S
ATOM	18729	N3	G	A	898	171.014	79.985	-43.775	1.00	54.94	A16S
ATOM	18730	C2	G	A	898	171.670	79.168	-42.965	1.00	54.94	A16S
ATOM	18731	N2	G	A	898	172.947	79.413	-42.652	1.00	54.94	A16S
ATOM	18732	N1	G	A	898	171.118	78.056	-42.393	1.00	54.94	A16S
ATOM	18733	C6	G	A	898	169.802	77.649	-42.552	1.00	54.94	A16S
ATOM	18734	O6	G	A	898	169.409	76.610	-42.017	1.00	54.94	A16S
ATOM	18735	C5	G	A	898	169.080	78.532	-43.374	1.00	54.94	A16S
ATOM	18736	N7	G	A	898	167.751	78.506	-43.765	1.00	54.94	A16S
ATOM	18737	C8	G	A	898	167.631	79.521	-44.572	1.00	54.94	A16S
ATOM	18738	C2*	G	A	898	169.662	80.504	-46.959	1.00	57.99	A16S
ATOM	18739	O2*	G	A	898	170.573	81.343	-47.637	1.00	57.99	A16S
ATOM	18740	C3*	G	A	898	168.415	80.180	-47.765	1.00	57.99	A16S
ATOM	18741	O3*	G	A	898	168.684	79.966	-49.140	1.00	57.99	A16S
ATOM	18742	P	C	A	899	168.556	78.480	-49.748	1.00	52.41	A16S
ATOM	18743	O1P	C	A	899	167.527	77.744	-48.933	1.00	60.47	A16S
ATOM	18744	O2P	C	A	899	168.407	78.585	-51.238	1.00	60.47	A16S
ATOM	18745	O5*	C	A	899	169.956	77.794	-49.440	1.00	52.41	A16S
ATOM	18746	C5*	C	A	899	170.136	76.376	-49.570	1.00	52.41	A16S
ATOM	18747	C4*	C	A	899	171.598	76.065	-49.550	1.00	52.41	A16S
ATOM	18748	O4*	C	A	899	172.189	76.765	-50.664	1.00	52.41	A16S
ATOM	18749	C1*	C	A	899	173.398	77.382	-50.260	1.00	52.41	A16S
ATOM	18750	N1	C	A	899	173.289	78.834	-50.515	1.00	60.47	A16S
ATOM	18751	C6	C	A	899	172.081	79.474	-50.470	1.00	60.47	A16S
ATOM	18752	C2	C	A	899	174.444	79.545	-50.793	1.00	60.47	A16S
ATOM	18753	O2	C	A	899	175.525	78.932	-50.845	1.00	60.47	A16S
ATOM	18754	N3	C	A	899	174.365	80.881	-51.001	1.00	60.47	A16S
ATOM	18755	C4	C	A	899	173.184	81.495	-50.944	1.00	60.47	A16S
ATOM	18756	N4	C	A	899	173.152	82.812	-51.149	1.00	60.47	A16S
ATOM	18757	C5	C	A	899	171.985	80.789	-50.676	1.00	60.47	A16S
ATOM	18758	C2*	C	A	899	173.661	77.014	-48.795	1.00	52.41	A16S
ATOM	18759	O2*	C	A	899	174.606	75.969	-48.678	1.00	52.41	A16S
ATOM	18760	C3*	C	A	899	172.272	76.627	-48.318	1.00	52.41	A16S
ATOM	18761	O3*	C	A	899	172.318	75.650	-47.315	1.00	52.41	A16S
ATOM	18762	P	A	A	900	172.360	76.104	-45.780	1.00	53.65	A16S
ATOM	18763	O1P	A	A	900	172.426	74.852	-44.979	1.00	47.71	A16S
ATOM	18764	O2P	A	A	900	171.252	77.074	-45.536	1.00	47.71	A16S
ATOM	18765	O5*	A	A	900	173.756	76.859	-45.635	1.00	53.65	A16S
ATOM	18766	C5*	A	A	900	174.984	76.112	-45.612	1.00	53.65	A16S
ATOM	18767	C4*	A	A	900	176.161	77.047	-45.650	1.00	53.65	A16S
ATOM	18768	O4*	A	A	900	176.074	77.848	-46.850	1.00	53.65	A16S
ATOM	18769	C1*	A	A	900	176.457	79.173	-46.568	1.00	53.65	A16S
ATOM	18770	N9	A	A	900	175.330	80.043	-46.900	1.00	47.71	A16S
ATOM	18771	C4	A	A	900	175.418	81.343	-47.343	1.00	47.71	A16S
ATOM	18772	N3	A	A	900	176.537	82.059	-47.548	1.00	47.71	A16S
ATOM	18773	C2	A	A	900	176.234	83.271	-48.003	1.00	47.71	A16S
ATOM	18774	N1	A	A	900	175.034	83.811	-48.249	1.00	47.71	A16S
ATOM	18775	C6	A	A	900	173.933	83.069	-48.021	1.00	47.71	A16S
ATOM	18776	N6	A	A	900	172.743	83.616	-48.245	1.00	47.71	A16S
ATOM	18777	C5	A	A	900	174.113	81.761	-47.553	1.00	47.71	A16S
ATOM	18778	N7	A	A	900	173.216	80.746	-47.247	1.00	47.71	A16S
ATOM	18779	C8	A	A	900	173.982	79.751	-46.861	1.00	47.71	A16S
ATOM	18780	C2*	A	A	900	176.911	79.233	-45.110	1.00	53.65	A16S
ATOM	18781	O2*	A	A	900	178.308	79.076	-45.066	1.00	53.65	A16S



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ATOM	18782	C3*	A	A	900	176.198	78.035	-44.507	1.00	53.65	A16S
ATOM	18783	O3*	A	A	900	176.930	77.471	-43.433	1.00	53.65	A16S
ATOM	18784	P	A	A	901	176.669	77.989	-41.939	1.00	59.27	A16S
ATOM	18785	O1P	A	A	901	177.546	77.250	-41.022	1.00	51.14	A16S
ATOM	18786	O2P	A	A	901	175.208	77.988	-41.705	1.00	51.14	A16S
ATOM	18787	O5*	A	A	901	177.220	79.480	-41.956	1.00	59.27	A16S
ATOM	18788	C5*	A	A	901	178.629	79.727	-42.123	1.00	59.27	A16S
ATOM	18789	C4*	A	A	901	178.880	81.185	-42.417	1.00	59.27	A16S
ATOM	18790	O4*	A	A	901	178.290	81.533	-43.693	1.00	59.27	A16S
ATOM	18791	C1*	A	A	901	177.771	82.852	-43.637	1.00	59.27	A16S
ATOM	18792	N9	A	A	901	176.331	82.791	-43.890	1.00	51.14	A16S
ATOM	18793	C4	A	A	901	175.559	83.762	-44.474	1.00	51.14	A16S
ATOM	18794	N3	A	A	901	175.968	84.942	-44.963	1.00	51.14	A16S
ATOM	18795	C2	A	A	901	174.928	85.624	-45.448	1.00	51.14	A16S
ATOM	18796	N1	A	A	901	173.627	85.285	-45.478	1.00	51.14	A16S
ATOM	18797	C6	A	A	901	173.263	84.100	-44.958	1.00	51.14	A16S
ATOM	18798	N6	A	A	901	171.975	83.776	-44.949	1.00	51.14	A16S
ATOM	18799	C5	A	A	901	174.264	83.281	-44.444	1.00	51.14	A16S
ATOM	18800	N7	A	A	901	174.222	82.024	-43.875	1.00	51.14	A16S
ATOM	18801	C8	A	A	901	175.471	81.776	-43.570	1.00	51.14	A16S
ATOM	18802	C2*	A	A	901	178.094	83.419	-42.251	1.00	59.27	A16S
ATOM	18803	O2*	A	A	901	179.284	84.171	-42.306	1.00	59.27	A16S
ATOM	18804	C3*	A	A	901	178.261	82.152	-41.428	1.00	59.27	A16S
ATOM	18805	O3*	A	A	901	179.110	82.355	-40.321	1.00	59.27	A16S
ATOM	18806	P	G	A	902	178.515	82.228	-38.839	1.00	57.22	A16S
ATOM	18807	O1P	G	A	902	179.417	83.057	-38.011	1.00	44.00	A16S
ATOM	18808	O2P	G	A	902	178.302	80.791	-38.489	1.00	44.00	A16S
ATOM	18809	O5*	G	A	902	177.080	82.916	-38.935	1.00	57.22	A16S
ATOM	18810	C5*	G	A	902	176.895	84.302	-38.602	1.00	57.22	A16S
ATOM	18811	C4*	G	A	902	175.857	84.930	-39.505	1.00	57.22	A16S
ATOM	18812	O4*	G	A	902	175.548	84.011	-40.579	1.00	57.22	A16S
ATOM	18813	C1*	G	A	902	174.178	84.107	-40.914	1.00	57.22	A16S
ATOM	18814	N9	G	A	902	173.545	82.849	-40.563	1.00	44.00	A16S
ATOM	18815	C4	G	A	902	172.239	82.529	-40.764	1.00	44.00	A16S
ATOM	18816	N3	G	A	902	171.324	83.316	-41.351	1.00	44.00	A16S
ATOM	18817	C2	G	A	902	170.132	82.755	-41.361	1.00	44.00	A16S
ATOM	18818	N2	G	A	902	169.097	83.418	-41.895	1.00	44.00	A16S
ATOM	18819	N1	G	A	902	169.868	81.508	-40.840	1.00	44.00	A16S
ATOM	18820	C6	G	A	902	170.812	80.685	-40.222	1.00	44.00	A16S
ATOM	18821	O6	G	A	902	170.480	79.585	-39.752	1.00	44.00	A16S
ATOM	18822	C5	G	A	902	172.079	81.277	-40.214	1.00	44.00	A16S
ATOM	18823	N7	G	A	902	173.276	80.805	-39.708	1.00	44.00	A16S
ATOM	18824	C8	G	A	902	174.119	81.771	-39.941	1.00	44.00	A16S
ATOM	18825	C2*	G	A	902	173.578	85.236	-40.087	1.00	57.22	A16S
ATOM	18826	O2*	G	A	902	173.625	86.401	-40.881	1.00	57.22	A16S
ATOM	18827	C3*	G	A	902	174.507	85.251	-38.879	1.00	57.22	A16S
ATOM	18828	O3*	G	A	902	174.508	86.500	-38.183	1.00	57.22	A16S
ATOM	18829	P	G	A	903	173.483	86.725	-36.965	1.00	41.46	A16S
ATOM	18830	O1P	G	A	903	173.890	87.925	-36.145	1.00	43.66	A16S
ATOM	18831	O2P	G	A	903	173.336	85.410	-36.300	1.00	43.66	A16S
ATOM	18832	O5*	G	A	903	172.111	87.029	-37.705	1.00	41.46	A16S
ATOM	18833	C5*	G	A	903	172.067	87.997	-38.749	1.00	41.46	A16S
ATOM	18834	C4*	G	A	903	170.695	88.049	-39.363	1.00	41.46	A16S
ATOM	18835	O4*	G	A	903	170.409	86.798	-40.030	1.00	41.46	A16S
ATOM	18836	C1*	G	A	903	169.036	86.503	-39.915	1.00	41.46	A16S
ATOM	18837	N9	G	A	903	168.914	85.234	-39.213	1.00	43.66	A16S
ATOM	18838	C4	G	A	903	167.780	84.475	-39.099	1.00	43.66	A16S
ATOM	18839	N3	G	A	903	166.563	84.798	-39.575	1.00	43.66	A16S
ATOM	18840	C2	G	A	903	165.682	83.840	-39.350	1.00	43.66	A16S
ATOM	18841	N2	G	A	903	164.420	83.986	-39.759	1.00	43.66	A16S
ATOM	18842	N1	G	A	903	165.974	82.671	-38.710	1.00	43.66	A16S
ATOM	18843	C6	G	A	903	167.218	82.328	-38.209	1.00	43.66	A16S
ATOM	18844	O6	G	A	903	167.374	81.249	-37.657	1.00	43.66	A16S
ATOM	18845	C5	G	A	903	168.168	83.334	-38.435	1.00	43.66	A16S
ATOM	18846	N7	G	A	903	169.511	83.392	-38.096	1.00	43.66	A16S
ATOM	18847	C8	G	A	903	169.911	84.540	-38.569	1.00	43.66	A16S
ATOM	18848	C2*	G	A	903	168.373	87.671	-39.190	1.00	41.46	A16S
ATOM	18849	O2*	G	A	903	167.955	88.627	-40.145	1.00	41.46	A16S
ATOM	18850	C3*	G	A	903	169.538	88.243	-38.404	1.00	41.46	A16S
ATOM	18851	O3*	G	A	903	169.318	89.613	-38.117	1.00	41.46	A16S
ATOM	18852	P	C	A	904	168.629	90.019	-36.722	1.00	57.54	A16S
ATOM	18853	O1P	C	A	904	168.431	91.510	-36.719	1.00	37.90	A16S
ATOM	18854	O2P	C	A	904	169.415	89.365	-35.634	1.00	37.90	A16S
ATOM	18855	O5*	C	A	904	167.192	89.331	-36.791	1.00	57.54	A16S
ATOM	18856	C5*	C	A	904	166.159	89.923	-37.591	1.00	57.54	A16S
ATOM	18857	C4*	C	A	904	164.861	89.199	-37.400	1.00	57.54	A16S
ATOM	18858	O4*	C	A	904	164.982	87.853	-37.903	1.00	57.54	A16S



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ATOM	18859	C1*	C	A	904	164.172	86.991	-37.136	1.00	57.54	A16S
ATOM	18860	N1	C	A	904	165.031	85.979	-36.511	1.00	37.90	A16S
ATOM	18861	C6	C	A	904	166.360	86.215	-36.304	1.00	37.90	A16S
ATOM	18862	C2	C	A	904	164.460	84.768	-36.114	1.00	37.90	A16S
ATOM	18863	O2	C	A	904	163.251	84.586	-36.306	1.00	37.90	A16S
ATOM	18864	N3	C	A	904	165.237	83.837	-35.527	1.00	37.90	A16S
ATOM	18865	C4	C	A	904	166.526	84.082	-35.324	1.00	37.90	A16S
ATOM	18866	N4	C	A	904	167.252	83.143	-34.740	1.00	37.90	A16S
ATOM	18867	C5	C	A	904	167.132	85.303	-35.712	1.00	37.90	A16S
ATOM	18868	C2*	C	A	904	163.461	87.836	-36.084	1.00	57.54	A16S
ATOM	18869	O2*	C	A	904	162.201	88.209	-36.590	1.00	57.54	A16S
ATOM	18870	C3*	C	A	904	164.392	89.027	-35.972	1.00	57.54	A16S
ATOM	18871	O3*	C	A	904	163.698	90.169	-35.522	1.00	57.54	A16S
ATOM	18872	P	U	A	905	163.748	90.559	-33.964	1.00	41.25	A16S
ATOM	18873	O1P	U	A	905	162.943	91.805	-33.827	1.00	56.64	A16S
ATOM	18874	O2P	U	A	905	165.163	90.540	-33.499	1.00	56.64	A16S
ATOM	18875	O5*	U	A	905	162.965	89.383	-33.235	1.00	41.25	A16S
ATOM	18876	C5*	U	A	905	161.559	89.271	-33.375	1.00	41.25	A16S
ATOM	18877	C4*	U	A	905	161.099	87.944	-32.873	1.00	41.25	A16S
ATOM	18878	O4*	U	A	905	161.786	86.889	-33.591	1.00	41.25	A16S
ATOM	18879	C1*	U	A	905	161.908	85.752	-32.755	1.00	41.25	A16S
ATOM	18880	N1	U	A	905	163.330	85.398	-32.629	1.00	56.64	A16S
ATOM	18881	C6	U	A	905	164.314	86.351	-32.674	1.00	56.64	A16S
ATOM	18882	C2	U	A	905	163.647	84.061	-32.432	1.00	56.64	A16S
ATOM	18883	O2	U	A	905	162.817	83.173	-32.450	1.00	56.64	A16S
ATOM	18884	N3	U	A	905	164.977	83.801	-32.228	1.00	56.64	A16S
ATOM	18885	C4	U	A	905	166.007	84.713	-32.229	1.00	56.64	A16S
ATOM	18886	O4	U	A	905	167.150	84.337	-31.957	1.00	56.64	A16S
ATOM	18887	C5	U	A	905	165.607	86.062	-32.491	1.00	56.64	A16S
ATOM	18888	C2*	U	A	905	161.296	86.122	-31.399	1.00	41.25	A16S
ATOM	18889	O2*	U	A	905	159.939	85.697	-31.347	1.00	41.25	A16S
ATOM	18890	C3*	U	A	905	161.403	87.636	-31.424	1.00	41.25	A16S
ATOM	18891	O3*	U	A	905	160.477	88.250	-30.562	1.00	41.25	A16S
ATOM	18892	P	G	A	906	161.007	89.286	-29.455	1.00	51.00	A16S
ATOM	18893	O1P	G	A	906	159.813	89.834	-28.745	1.00	53.87	A16S
ATOM	18894	O2P	G	A	906	161.962	90.234	-30.120	1.00	53.87	A16S
ATOM	18895	O5*	G	A	906	161.832	88.349	-28.462	1.00	51.00	A16S
ATOM	18896	C5*	G	A	906	161.190	87.227	-27.834	1.00	51.00	A16S
ATOM	18897	C4*	G	A	906	162.204	86.275	-27.233	1.00	51.00	A16S
ATOM	18898	O4*	G	A	906	162.970	85.616	-28.271	1.00	51.00	A16S
ATOM	18899	C1*	G	A	906	164.278	85.352	-27.797	1.00	51.00	A16S
ATOM	18900	N9	G	A	906	165.199	86.187	-28.551	1.00	53.87	A16S
ATOM	18901	C4	G	A	906	166.515	85.929	-28.831	1.00	53.87	A16S
ATOM	18902	N3	G	A	906	167.200	84.819	-28.492	1.00	53.87	A16S
ATOM	18903	C2	G	A	906	168.463	84.879	-28.888	1.00	53.87	A16S
ATOM	18904	N2	G	A	906	169.297	83.861	-28.645	1.00	53.87	A16S
ATOM	18905	N1	G	A	906	169.002	85.943	-29.555	1.00	53.87	A16S
ATOM	18906	C6	G	A	906	168.309	87.094	-29.913	1.00	53.87	A16S
ATOM	18907	O6	G	A	906	168.886	88.006	-30.522	1.00	53.87	A16S
ATOM	18908	C5	G	A	906	166.965	87.039	-29.500	1.00	53.87	A16S
ATOM	18909	N7	G	A	906	165.948	87.965	-29.659	1.00	53.87	A16S
ATOM	18910	C8	G	A	906	164.920	87.412	-29.089	1.00	53.87	A16S
ATOM	18911	C2*	G	A	906	164.316	85.774	-26.334	1.00	51.00	A16S
ATOM	18912	O2*	G	A	906	163.941	84.674	-25.541	1.00	51.00	A16S
ATOM	18913	C3*	G	A	906	163.256	86.854	-26.312	1.00	51.00	A16S
ATOM	18914	O3*	G	A	906	162.777	87.063	-25.012	1.00	51.00	A16S
ATOM	18915	P	A	A	907	163.466	88.191	-24.106	1.00	46.42	A16S
ATOM	18916	O1P	A	A	907	162.537	88.494	-22.990	1.00	47.93	A16S
ATOM	18917	O2P	A	A	907	163.944	89.301	-24.989	1.00	47.93	A16S
ATOM	18918	O5*	A	A	907	164.746	87.454	-23.519	1.00	46.42	A16S
ATOM	18919	C5*	A	A	907	164.839	87.129	-22.127	1.00	46.42	A16S
ATOM	18920	C4*	A	A	907	164.262	85.768	-21.883	1.00	46.42	A16S
ATOM	18921	O4*	A	A	907	164.786	84.846	-22.860	1.00	46.42	A16S
ATOM	18922	C1*	A	A	907	164.991	83.582	-22.266	1.00	46.42	A16S
ATOM	18923	N9	A	A	907	166.417	83.287	-22.307	1.00	47.93	A16S
ATOM	18924	C4	A	A	907	167.019	82.193	-21.734	1.00	47.93	A16S
ATOM	18925	N3	A	A	907	166.427	81.224	-21.012	1.00	47.93	A16S
ATOM	18926	C2	A	A	907	167.320	80.323	-20.626	1.00	47.93	A16S
ATOM	18927	N1	A	A	907	168.639	80.276	-20.867	1.00	47.93	A16S
ATOM	18928	C6	A	A	907	169.197	81.260	-21.598	1.00	47.93	A16S
ATOM	18929	N6	A	A	907	170.498	81.201	-21.847	1.00	47.93	A16S
ATOM	18930	C5	A	A	907	168.361	82.287	-22.057	1.00	47.93	A16S
ATOM	18931	N7	A	A	907	168.606	83.436	-22.799	1.00	47.93	A16S
ATOM	18932	C8	A	A	907	167.426	83.996	-22.915	1.00	47.93	A16S
ATOM	18933	C2*	A	A	907	164.485	83.668	-20.836	1.00	46.42	A16S
ATOM	18934	O2*	A	A	907	163.143	83.253	-20.840	1.00	46.42	A16S
ATOM	18935	C3*	A	A	907	164.630	85.151	-20.558	1.00	46.42	A16S



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ATOM	18936	O3*	A	A	907	163.772	85.584	-19.542	1.00	46.42	A16S
ATOM	18937	P	A	A	908	164.382	85.900	-18.106	1.00	66.22	A16S
ATOM	18938	O1P	A	A	908	163.291	86.363	-17.222	1.00	64.31	A16S
ATOM	18939	O2P	A	A	908	165.583	86.749	-18.298	1.00	64.31	A16S
ATOM	18940	O5*	A	A	908	164.850	84.477	-17.596	1.00	66.22	A16S
ATOM	18941	C5*	A	A	908	163.896	83.523	-17.157	1.00	66.22	A16S
ATOM	18942	C4*	A	A	908	164.609	82.293	-16.690	1.00	66.22	A16S
ATOM	18943	O4*	A	A	908	165.367	81.754	-17.805	1.00	66.22	A16S
ATOM	18944	C1*	A	A	908	166.594	81.227	-17.346	1.00	66.22	A16S
ATOM	18945	N9	A	A	908	167.671	82.006	-17.953	1.00	64.31	A16S
ATOM	18946	C4	A	A	908	168.996	81.646	-18.009	1.00	64.31	A16S
ATOM	18947	N3	A	A	908	169.554	80.521	-17.534	1.00	64.31	A16S
ATOM	18948	C2	A	A	908	170.867	80.512	-17.772	1.00	64.31	A16S
ATOM	18949	N1	A	A	908	171.628	81.431	-18.379	1.00	64.31	A16S
ATOM	18950	C6	A	A	908	171.039	82.556	-18.835	1.00	64.31	A16S
ATOM	18951	N6	A	A	908	171.804	83.478	-19.426	1.00	64.31	A16S
ATOM	18952	C5	A	A	908	169.645	82.686	-18.652	1.00	64.31	A16S
ATOM	18953	N7	A	A	908	168.744	83.684	-18.997	1.00	64.31	A16S
ATOM	18954	C8	A	A	908	167.590	83.233	-18.564	1.00	64.31	A16S
ATOM	18955	C2*	A	A	908	166.593	81.354	-15.824	1.00	66.22	A16S
ATOM	18956	O2*	A	A	908	166.050	80.179	-15.259	1.00	66.22	A16S
ATOM	18957	C3*	A	A	908	165.661	82.536	-15.627	1.00	66.22	A16S
ATOM	18958	O3*	A	A	908	165.121	82.600	-14.324	1.00	66.22	A16S
ATOM	18959	P	A	A	909	165.920	83.402	-13.186	1.00	57.61	A16S
ATOM	18960	O1P	A	A	909	164.975	83.524	-12.048	1.00	57.56	A16S
ATOM	18961	O2P	A	A	909	166.532	84.638	-13.781	1.00	57.56	A16S
ATOM	18962	O5*	A	A	909	167.061	82.377	-12.752	1.00	57.61	A16S
ATOM	18963	C5*	A	A	909	166.704	81.066	-12.278	1.00	57.61	A16S
ATOM	18964	C4*	A	A	909	167.919	80.176	-12.209	1.00	57.61	A16S
ATOM	18965	O4*	A	A	909	168.488	80.017	-13.533	1.00	57.61	A16S
ATOM	18966	C1*	A	A	909	169.894	79.988	-13.435	1.00	57.61	A16S
ATOM	18967	N9	A	A	909	170.413	81.152	-14.143	1.00	57.56	A16S
ATOM	18968	C4	A	A	909	171.699	81.297	-14.591	1.00	57.56	A16S
ATOM	18969	N3	A	A	909	172.702	80.415	-14.467	1.00	57.56	A16S
ATOM	18970	C2	A	A	909	173.799	80.875	-15.051	1.00	57.56	A16S
ATOM	18971	N1	A	A	909	173.993	82.033	-15.695	1.00	57.56	A16S
ATOM	18972	C6	A	A	909	172.961	82.900	-15.796	1.00	57.56	A16S
ATOM	18973	N6	A	A	909	173.154	84.053	-16.442	1.00	57.56	A16S
ATOM	18974	C5	A	A	909	171.743	82.529	-15.217	1.00	57.56	A16S
ATOM	18975	N7	A	A	909	170.510	83.160	-15.151	1.00	57.56	A16S
ATOM	18976	C8	A	A	909	169.757	82.305	-14.503	1.00	57.56	A16S
ATOM	18977	C2*	A	A	909	170.272	80.033	-11.954	1.00	57.61	A16S
ATOM	18978	O2*	A	A	909	170.437	78.724	-11.464	1.00	57.61	A16S
ATOM	18979	C3*	A	A	909	169.052	80.697	-11.342	1.00	57.61	A16S
ATOM	18980	O3*	A	A	909	168.884	80.273	-9.996	1.00	57.61	A16S
ATOM	18981	P	C	A	910	168.986	81.347	-8.805	1.00	54.78	A16S
ATOM	18982	O1P	C	A	910	168.785	80.549	-7.562	1.00	72.91	A16S
ATOM	18983	O2P	C	A	910	168.085	82.497	-9.102	1.00	72.91	A16S
ATOM	18984	O5*	C	A	910	170.480	81.886	-8.878	1.00	54.78	A16S
ATOM	18985	C5*	C	A	910	171.568	80.969	-8.864	1.00	54.78	A16S
ATOM	18986	C4*	C	A	910	172.803	81.624	-9.406	1.00	54.78	A16S
ATOM	18987	O4*	C	A	910	172.636	81.898	-10.820	1.00	54.78	A16S
ATOM	18988	C1*	C	A	910	173.341	83.074	-11.159	1.00	54.78	A16S
ATOM	18989	N1	C	A	910	172.397	84.034	-11.738	1.00	72.91	A16S
ATOM	18990	C6	C	A	910	171.049	83.910	-11.551	1.00	72.91	A16S
ATOM	18991	C2	C	A	910	172.910	85.102	-12.469	1.00	72.91	A16S
ATOM	18992	O2	C	A	910	174.132	85.169	-12.642	1.00	72.91	A16S
ATOM	18993	N3	C	A	910	172.068	86.034	-12.966	1.00	72.91	A16S
ATOM	18994	C4	C	A	910	170.759	85.924	-12.759	1.00	72.91	A16S
ATOM	18995	N4	C	A	910	169.969	86.880	-13.248	1.00	72.91	A16S
ATOM	18996	C5	C	A	910	170.201	84.827	-12.034	1.00	72.91	A16S
ATOM	18997	C2*	C	A	910	173.993	83.616	-9.884	1.00	54.78	A16S
ATOM	18998	O2*	C	A	910	175.339	83.211	-9.847	1.00	54.78	A16S
ATOM	18999	C3*	C	A	910	173.148	82.966	-8.798	1.00	54.78	A16S
ATOM	19000	O3*	C	A	910	173.838	82.815	-7.569	1.00	54.78	A16S
ATOM	19001	P	U	A	911	173.560	83.862	-6.382	1.00	59.08	A16S
ATOM	19002	O1P	U	A	911	174.236	83.390	-5.136	1.00	70.27	A16S
ATOM	19003	O2P	U	A	911	172.095	84.113	-6.368	1.00	70.27	A16S
ATOM	19004	O5*	U	A	911	174.280	85.189	-6.898	1.00	59.08	A16S
ATOM	19005	C5*	U	A	911	175.656	85.152	-7.289	1.00	59.08	A16S
ATOM	19006	C4*	U	A	911	176.026	86.368	-8.099	1.00	59.08	A16S
ATOM	19007	O4*	U	A	911	175.304	86.377	-9.354	1.00	59.08	A16S
ATOM	19008	C1*	U	A	911	175.133	87.717	-9.780	1.00	59.08	A16S
ATOM	19009	N1	U	A	911	173.710	87.960	-10.042	1.00	70.27	A16S
ATOM	19010	C6	U	A	911	172.723	87.157	-9.523	1.00	70.27	A16S
ATOM	19011	C2	U	A	911	173.404	89.040	-10.834	1.00	70.27	A16S
ATOM	19012	O2	U	A	911	174.256	89.776	-11.296	1.00	70.27	A16S



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ATOM	19013	N3	U	A	911	172.067	89.235	-11.058	1.00	70.27	A16S
ATOM	19014	C4	U	A	911	171.024	88.479	-10.567	1.00	70.27	A16S
ATOM	19015	O4	U	A	911	169.865	88.814	-10.814	1.00	70.27	A16S
ATOM	19016	C5	U	A	911	171.424	87.374	-9.750	1.00	70.27	A16S
ATOM	19017	C2*	U	A	911	175.700	88.644	-8.703	1.00	59.08	A16S
ATOM	19018	O2*	U	A	911	176.975	89.103	-9.096	1.00	59.08	A16S
ATOM	19019	C3*	U	A	911	175.738	87.725	-7.489	1.00	59.08	A16S
ATOM	19020	O3*	U	A	911	176.760	88.110	-6.596	1.00	59.08	A16S
ATOM	19021	P	C	A	912	176.447	89.214	-5.477	1.00	66.48	A16S
ATOM	19022	O1P	C	A	912	177.609	89.273	-4.544	1.00	47.03	A16S
ATOM	19023	O2P	C	A	912	175.083	88.949	-4.948	1.00	47.03	A16S
ATOM	19024	O5*	C	A	912	176.420	90.575	-6.289	1.00	66.48	A16S
ATOM	19025	C5*	C	A	912	177.612	91.048	-6.904	1.00	66.48	A16S
ATOM	19026	C4*	C	A	912	177.355	92.359	-7.571	1.00	66.48	A16S
ATOM	19027	O4*	C	A	912	176.490	92.167	-8.705	1.00	66.48	A16S
ATOM	19028	C1*	C	A	912	175.640	93.283	-8.836	1.00	66.48	A16S
ATOM	19029	N1	C	A	912	174.252	92.806	-8.800	1.00	47.03	A16S
ATOM	19030	C6	C	A	912	173.931	91.624	-8.199	1.00	47.03	A16S
ATOM	19031	C2	C	A	912	173.267	93.576	-9.409	1.00	47.03	A16S
ATOM	19032	O2	C	A	912	173.584	94.658	-9.924	1.00	47.03	A16S
ATOM	19033	N3	C	A	912	171.998	93.132	-9.423	1.00	47.03	A16S
ATOM	19034	C4	C	A	912	171.696	91.968	-8.854	1.00	47.03	A16S
ATOM	19035	N4	C	A	912	170.428	91.554	-8.917	1.00	47.03	A16S
ATOM	19036	C5	C	A	912	172.679	91.172	-8.202	1.00	47.03	A16S
ATOM	19037	C2*	C	A	912	175.994	94.281	-7.734	1.00	66.48	A16S
ATOM	19038	O2*	C	A	912	176.917	95.211	-8.259	1.00	66.48	A16S
ATOM	19039	C3*	C	A	912	176.654	93.381	-6.707	1.00	66.48	A16S
ATOM	19040	O3*	C	A	912	177.636	94.074	-5.979	1.00	66.48	A16S
ATOM	19041	P	A	A	913	177.275	94.721	-4.560	1.00	71.42	A16S
ATOM	19042	O1P	A	A	913	178.364	94.271	-3.666	1.00	41.95	A16S
ATOM	19043	O2P	A	A	913	175.859	94.461	-4.166	1.00	41.95	A16S
ATOM	19044	O5*	A	A	913	177.443	96.277	-4.853	1.00	71.42	A16S
ATOM	19045	C5*	A	A	913	176.734	97.253	-4.076	1.00	71.42	A16S
ATOM	19046	C4*	A	A	913	176.115	98.296	-4.977	1.00	71.42	A16S
ATOM	19047	O4*	A	A	913	175.410	97.627	-6.036	1.00	71.42	A16S
ATOM	19048	C1*	A	A	913	174.184	98.263	-6.261	1.00	71.42	A16S
ATOM	19049	N9	A	A	913	173.137	97.246	-6.315	1.00	41.95	A16S
ATOM	19050	C4	A	A	913	171.990	97.315	-7.073	1.00	41.95	A16S
ATOM	19051	N3	A	A	913	171.585	98.339	-7.848	1.00	41.95	A16S
ATOM	19052	C2	A	A	913	170.438	98.039	-8.453	1.00	41.95	A16S
ATOM	19053	N1	A	A	913	169.704	96.916	-8.374	1.00	41.95	A16S
ATOM	19054	C6	A	A	913	170.131	95.919	-7.570	1.00	41.95	A16S
ATOM	19055	N6	A	A	913	169.383	94.820	-7.463	1.00	41.95	A16S
ATOM	19056	C5	A	A	913	171.338	96.107	-6.884	1.00	41.95	A16S
ATOM	19057	N7	A	A	913	172.045	95.299	-6.007	1.00	41.95	A16S
ATOM	19058	C8	A	A	913	173.094	96.023	-5.687	1.00	41.95	A16S
ATOM	19059	C2*	A	A	913	174.020	99.431	-5.287	1.00	71.42	A16S
ATOM	19060	O2*	A	A	913	174.190	100.629	-5.988	1.00	71.42	A16S
ATOM	19061	C3*	A	A	913	175.095	99.152	-4.250	1.00	71.42	A16S
ATOM	19062	O3*	A	A	913	175.752	100.275	-3.601	1.00	71.42	A16S
ATOM	19063	P	A	A	914	176.138	101.633	-4.417	1.00	53.68	A16S
ATOM	19064	O1P	A	A	914	177.286	102.228	-3.682	1.00	86.75	A16S
ATOM	19065	O2P	A	A	914	174.939	102.474	-4.681	1.00	86.75	A16S
ATOM	19066	O5*	A	A	914	176.667	101.123	-5.824	1.00	40.20	A16S
ATOM	19067	C5*	A	A	914	176.420	101.859	-7.043	1.00	40.20	A16S
ATOM	19068	C4*	A	A	914	176.295	100.879	-8.180	1.00	40.20	A16S
ATOM	19069	O4*	A	A	914	175.027	100.187	-8.098	1.00	40.20	A16S
ATOM	19070	C1*	A	A	914	174.569	99.862	-9.396	1.00	40.20	A16S
ATOM	19071	N9	A	A	914	173.301	100.553	-9.623	1.00	47.41	A16S
ATOM	19072	C4	A	A	914	172.454	100.344	-10.677	1.00	47.41	A16S
ATOM	19073	N3	A	A	914	172.605	99.465	-11.675	1.00	47.41	A16S
ATOM	19074	C2	A	A	914	171.598	99.554	-12.526	1.00	47.41	A16S
ATOM	19075	N1	A	A	914	170.539	100.361	-12.501	1.00	47.41	A16S
ATOM	19076	C6	A	A	914	170.414	101.228	-11.480	1.00	47.41	A16S
ATOM	19077	N6	A	A	914	169.347	102.027	-11.449	1.00	47.41	A16S
ATOM	19078	C5	A	A	914	171.415	101.234	-10.508	1.00	47.41	A16S
ATOM	19079	N7	A	A	914	171.588	101.980	-9.353	1.00	47.41	A16S
ATOM	19080	C8	A	A	914	172.716	101.537	-8.864	1.00	47.41	A16S
ATOM	19081	C2*	A	A	914	175.661	100.281	-10.376	1.00	40.20	A16S
ATOM	19082	O2*	A	A	914	176.491	99.139	-10.565	1.00	40.20	A16S
ATOM	19083	C3*	A	A	914	176.360	101.397	-9.598	1.00	40.20	A16S
ATOM	19084	O3*	A	A	914	177.728	101.465	-9.943	1.00	40.20	A16S
ATOM	19085	P	A	A	915	178.183	102.269	-11.242	1.00	43.89	A16S
ATOM	19086	O1P	A	A	915	179.575	101.797	-11.484	1.00	52.70	A16S
ATOM	19087	O2P	A	A	915	177.916	103.728	-11.015	1.00	52.70	A16S
ATOM	19088	O5*	A	A	915	177.230	101.735	-12.410	1.00	43.89	A16S
ATOM	19089	C5*	A	A	915	177.507	100.488	-13.076	1.00	43.89	A16S



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ATOM	19090	C4*	A	A	915	176.572	100.276	-14.246	1.00	43.89	A16S
ATOM	19091	O4*	A	A	915	175.232	99.994	-13.779	1.00	43.89	A16S
ATOM	19092	C1*	A	A	915	174.283	100.480	-14.718	1.00	43.89	A16S
ATOM	19093	N9	A	A	915	173.465	101.515	-14.082	1.00	52.70	A16S
ATOM	19094	C4	A	A	915	172.269	101.981	-14.559	1.00	52.70	A16S
ATOM	19095	N3	A	A	915	171.595	101.532	-15.623	1.00	52.70	A16S
ATOM	19096	C2	A	A	915	170.502	102.241	-15.804	1.00	52.70	A16S
ATOM	19097	N1	A	A	915	170.048	103.283	-15.110	1.00	52.70	A16S
ATOM	19098	C6	A	A	915	170.765	103.716	-14.058	1.00	52.70	A16S
ATOM	19099	N6	A	A	915	170.346	104.792	-13.398	1.00	52.70	A16S
ATOM	19100	C5	A	A	915	171.919	103.025	-13.739	1.00	52.70	A16S
ATOM	19101	N7	A	A	915	172.837	103.181	-12.720	1.00	52.70	A16S
ATOM	19102	C8	A	A	915	173.732	102.259	-12.964	1.00	52.70	A16S
ATOM	19103	C2*	A	A	915	175.065	101.109	-15.867	1.00	43.89	A16S
ATOM	19104	O2*	A	A	915	175.241	100.195	-16.927	1.00	43.89	A16S
ATOM	19105	C3*	A	A	915	176.371	101.447	-15.183	1.00	43.89	A16S
ATOM	19106	O3*	A	A	915	177.396	101.624	-16.111	1.00	43.89	A16S
ATOM	19107	P	G	A	916	177.993	103.090	-16.303	1.00	49.48	A16S
ATOM	19108	O1P	G	A	916	178.919	103.047	-17.479	1.00	51.67	A16S
ATOM	19109	O2P	G	A	916	178.499	103.526	-14.959	1.00	51.67	A16S
ATOM	19110	O5*	G	A	916	176.718	103.979	-16.685	1.00	49.48	A16S
ATOM	19111	C5*	G	A	916	175.953	103.659	-17.855	1.00	49.48	A16S
ATOM	19112	C4*	G	A	916	174.709	104.515	-17.975	1.00	49.48	A16S
ATOM	19113	O4*	G	A	916	173.839	104.353	-16.827	1.00	49.48	A16S
ATOM	19114	C1*	G	A	916	172.984	105.484	-16.733	1.00	49.48	A16S
ATOM	19115	N9	G	A	916	173.117	106.085	-15.406	1.00	51.67	A16S
ATOM	19116	C4	G	A	916	172.453	107.203	-14.939	1.00	51.67	A16S
ATOM	19117	N3	G	A	916	171.543	107.927	-15.615	1.00	51.67	A16S
ATOM	19118	C2	G	A	916	171.129	108.975	-14.919	1.00	51.67	A16S
ATOM	19119	N2	G	A	916	170.249	109.820	-15.449	1.00	51.67	A16S
ATOM	19120	N1	G	A	916	171.555	109.275	-13.661	1.00	51.67	A16S
ATOM	19121	C6	G	A	916	172.488	108.542	-12.947	1.00	51.67	A16S
ATOM	19122	O6	G	A	916	172.821	108.905	-11.822	1.00	51.67	A16S
ATOM	19123	C5	G	A	916	172.949	107.422	-13.679	1.00	51.67	A16S
ATOM	19124	N7	G	A	916	173.883	106.454	-13.341	1.00	51.67	A16S
ATOM	19125	C8	G	A	916	173.943	105.679	-14.390	1.00	51.67	A16S
ATOM	19126	C2*	G	A	916	173.390	106.453	-17.850	1.00	49.48	A16S
ATOM	19127	O2*	G	A	916	172.580	106.211	-18.983	1.00	49.48	A16S
ATOM	19128	C3*	G	A	916	174.816	106.020	-18.148	1.00	49.48	A16S
ATOM	19129	O3*	G	A	916	175.119	106.380	-19.483	1.00	49.48	A16S
ATOM	19130	P	G	A	917	175.784	107.819	-19.802	1.00	40.98	A16S
ATOM	19131	O1P	G	A	917	176.324	107.692	-21.185	1.00	42.03	A16S
ATOM	19132	O2P	G	A	917	176.679	108.265	-18.706	1.00	42.03	A16S
ATOM	19133	O5*	G	A	917	174.573	108.855	-19.823	1.00	40.98	A16S
ATOM	19134	C5*	G	A	917	173.662	108.892	-20.935	1.00	40.98	A16S
ATOM	19135	C4*	G	A	917	172.619	109.950	-20.717	1.00	40.98	A16S
ATOM	19136	O4*	G	A	917	171.966	109.719	-19.448	1.00	40.98	A16S
ATOM	19137	C1*	G	A	917	171.672	110.952	-18.835	1.00	40.98	A16S
ATOM	19138	N9	G	A	917	172.423	111.024	-17.589	1.00	42.03	A16S
ATOM	19139	C4	G	A	917	172.231	111.953	-16.605	1.00	42.03	A16S
ATOM	19140	N3	G	A	917	171.349	112.974	-16.650	1.00	42.03	A16S
ATOM	19141	C2	G	A	917	171.356	113.684	-15.546	1.00	42.03	A16S
ATOM	19142	N2	G	A	917	170.533	114.716	-15.434	1.00	42.03	A16S
ATOM	19143	N1	G	A	917	172.169	113.425	-14.469	1.00	42.03	A16S
ATOM	19144	C6	G	A	917	173.088	112.377	-14.394	1.00	42.03	A16S
ATOM	19145	O6	G	A	917	173.762	112.226	-13.374	1.00	42.03	A16S
ATOM	19146	C5	G	A	917	173.092	111.599	-15.592	1.00	42.03	A16S
ATOM	19147	N7	G	A	917	173.846	110.486	-15.954	1.00	42.03	A16S
ATOM	19148	C8	G	A	917	173.421	110.185	-17.150	1.00	42.03	A16S
ATOM	19149	C2*	G	A	917	172.077	112.054	-19.806	1.00	40.98	A16S
ATOM	19150	O2*	G	A	917	170.998	112.357	-20.660	1.00	40.98	A16S
ATOM	19151	C3*	G	A	917	173.153	111.352	-20.590	1.00	40.98	A16S
ATOM	19152	O3*	G	A	917	173.298	111.935	-21.831	1.00	40.98	A16S
ATOM	19153	P	A	A	918	174.659	112.667	-22.155	1.00	36.61	A16S
ATOM	19154	O1P	A	A	918	174.749	112.789	-23.627	1.00	43.84	A16S
ATOM	19155	O2P	A	A	918	175.717	111.939	-21.400	1.00	43.84	A16S
ATOM	19156	O5*	A	A	918	174.450	114.115	-21.538	1.00	36.61	A16S
ATOM	19157	C5*	A	A	918	173.391	114.945	-22.008	1.00	36.61	A16S
ATOM	19158	C4*	A	A	918	173.080	116.001	-20.996	1.00	36.61	A16S
ATOM	19159	O4*	A	A	918	172.589	115.374	-19.792	1.00	36.61	A16S
ATOM	19160	C1*	A	A	918	172.952	116.165	-18.672	1.00	36.61	A16S
ATOM	19161	N9	A	A	918	173.764	115.367	-17.760	1.00	43.84	A16S
ATOM	19162	C4	A	A	918	173.970	115.614	-16.417	1.00	43.84	A16S
ATOM	19163	N3	A	A	918	173.439	116.594	-15.662	1.00	43.84	A16S
ATOM	19164	C2	A	A	918	173.886	116.514	-14.410	1.00	43.84	A16S
ATOM	19165	N1	A	A	918	174.739	115.642	-13.867	1.00	43.84	A16S
ATOM	19166	C6	A	A	918	175.253	114.677	-14.655	1.00	43.84	A16S



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ATOM	19167	N6	A	A	918	176.111	113.807	-14.140	1.00	43.84	A16S
ATOM	19168	C5	A	A	918	174.858	114.642	-15.994	1.00	43.84	A16S
ATOM	19169	N7	A	A	918	175.190	113.787	-17.038	1.00	43.84	A16S
ATOM	19170	C8	A	A	918	174.507	114.252	-18.056	1.00	43.84	A16S
ATOM	19171	C2*	A	A	918	173.733	117.373	-19.184	1.00	36.61	A16S
ATOM	19172	O2*	A	A	918	172.805	118.438	-19.300	1.00	36.61	A16S
ATOM	19173	C3*	A	A	918	174.237	116.874	-20.532	1.00	36.61	A16S
ATOM	19174	O3*	A	A	918	174.432	117.955	-21.441	1.00	36.61	A16S
ATOM	19175	P	A	A	919	175.860	118.694	-21.527	1.00	37.02	A16S
ATOM	19176	O1P	A	A	919	175.753	119.705	-22.633	1.00	51.13	A16S
ATOM	19177	O2P	A	A	919	176.942	117.658	-21.549	1.00	51.13	A16S
ATOM	19178	O5*	A	A	919	176.008	119.460	-20.143	1.00	37.02	A16S
ATOM	19179	C5*	A	A	919	175.213	120.614	-19.856	1.00	37.02	A16S
ATOM	19180	C4*	A	A	919	175.193	120.864	-18.374	1.00	37.02	A16S
ATOM	19181	O4*	A	A	919	174.782	119.651	-17.700	1.00	37.02	A16S
ATOM	19182	C1*	A	A	919	175.422	119.567	-16.447	1.00	37.02	A16S
ATOM	19183	N9	A	A	919	176.247	118.371	-16.423	1.00	51.13	A16S
ATOM	19184	C4	A	A	919	176.818	117.856	-15.290	1.00	51.13	A16S
ATOM	19185	N3	A	A	919	176.718	118.341	-14.043	1.00	51.13	A16S
ATOM	19186	C2	A	A	919	177.398	117.585	-13.188	1.00	51.13	A16S
ATOM	19187	N1	A	A	919	178.109	116.484	-13.417	1.00	51.13	A16S
ATOM	19188	C6	A	A	919	178.188	116.021	-14.683	1.00	51.13	A16S
ATOM	19189	N6	A	A	919	178.888	114.907	-14.905	1.00	51.13	A16S
ATOM	19190	C5	A	A	919	177.515	116.744	-15.690	1.00	51.13	A16S
ATOM	19191	N7	A	A	919	177.394	116.561	-17.060	1.00	51.13	A16S
ATOM	19192	C8	A	A	919	176.630	117.553	-17.444	1.00	51.13	A16S
ATOM	19193	C2*	A	A	919	176.290	120.804	-16.279	1.00	37.02	A16S
ATOM	19194	O2*	A	A	919	175.537	121.760	-15.566	1.00	37.02	A16S
ATOM	19195	C3*	A	A	919	176.519	121.206	-17.724	1.00	37.02	A16S
ATOM	19196	O3*	A	A	919	176.810	122.579	-17.824	1.00	37.02	A16S
ATOM	19197	P	U	A	920	178.272	123.093	-17.444	1.00	39.24	A16S
ATOM	19198	O1P	U	A	920	178.248	124.550	-17.699	1.00	60.47	A16S
ATOM	19199	O2P	U	A	920	179.273	122.250	-18.116	1.00	60.47	A16S
ATOM	19200	O5*	U	A	920	178.410	122.803	-15.882	1.00	39.24	A16S
ATOM	19201	C5*	U	A	920	177.764	123.670	-14.942	1.00	39.24	A16S
ATOM	19202	C4*	U	A	920	178.458	123.632	-13.614	1.00	39.24	A16S
ATOM	19203	O4*	U	A	920	178.232	122.355	-12.992	1.00	39.24	A16S
ATOM	19204	C1*	U	A	920	179.380	121.980	-12.254	1.00	39.24	A16S
ATOM	19205	N1	U	A	920	179.895	120.715	-12.807	1.00	60.47	A16S
ATOM	19206	C6	U	A	920	179.686	120.369	-14.128	1.00	60.47	A16S
ATOM	19207	C2	U	A	920	180.590	119.869	-11.949	1.00	60.47	A16S
ATOM	19208	O2	U	A	920	180.820	120.144	-10.786	1.00	60.47	A16S
ATOM	19209	N3	U	A	920	181.005	118.691	-12.508	1.00	60.47	A16S
ATOM	19210	C4	U	A	920	180.812	118.272	-13.810	1.00	60.47	A16S
ATOM	19211	O4	U	A	920	181.195	117.142	-14.147	1.00	60.47	A16S
ATOM	19212	C5	U	A	920	180.108	119.210	-14.643	1.00	60.47	A16S
ATOM	19213	C2*	U	A	920	180.386	123.123	-12.357	1.00	39.24	A16S
ATOM	19214	O2*	U	A	920	180.201	124.032	-11.294	1.00	39.24	A16S
ATOM	19215	C3*	U	A	920	179.961	123.777	-13.651	1.00	39.24	A16S
ATOM	19216	O3*	U	A	920	180.354	125.127	-13.637	1.00	39.24	A16S
ATOM	19217	P	U	A	921	181.880	125.500	-13.968	1.00	40.61	A16S
ATOM	19218	O1P	U	A	921	181.970	126.994	-14.008	1.00	63.64	A16S
ATOM	19219	O2P	U	A	921	182.256	124.702	-15.180	1.00	63.64	A16S
ATOM	19220	O5*	U	A	921	182.694	124.944	-12.710	1.00	40.61	A16S
ATOM	19221	C5*	U	A	921	182.751	125.680	-11.489	1.00	40.61	A16S
ATOM	19222	C4*	U	A	921	183.555	124.925	-10.476	1.00	40.61	A16S
ATOM	19223	O4*	U	A	921	183.000	123.596	-10.346	1.00	40.61	A16S
ATOM	19224	C1*	U	A	921	184.027	122.669	-10.052	1.00	40.61	A16S
ATOM	19225	N1	U	A	921	184.026	121.619	-11.082	1.00	63.64	A16S
ATOM	19226	C6	U	A	921	183.497	121.842	-12.332	1.00	63.64	A16S
ATOM	19227	C2	U	A	921	184.589	120.389	-10.756	1.00	63.64	A16S
ATOM	19228	O2	U	A	921	185.048	120.143	-9.660	1.00	63.64	A16S
ATOM	19229	N3	U	A	921	184.593	119.460	-11.770	1.00	63.64	A16S
ATOM	19230	C4	U	A	921	184.103	119.628	-13.054	1.00	63.64	A16S
ATOM	19231	O4	U	A	921	184.330	118.761	-13.914	1.00	63.64	A16S
ATOM	19232	C5	U	A	921	183.511	120.916	-13.298	1.00	63.64	A16S
ATOM	19233	C2*	U	A	921	185.341	123.441	-10.012	1.00	40.61	A16S
ATOM	19234	O2*	U	A	921	185.652	123.759	-8.675	1.00	40.61	A16S
ATOM	19235	C3*	U	A	921	185.003	124.676	-10.832	1.00	40.61	A16S
ATOM	19236	O3*	U	A	921	185.821	125.761	-10.447	1.00	40.61	A16S
ATOM	19237	P	G	A	922	187.185	126.040	-11.243	1.00	53.10	A16S
ATOM	19238	O1P	G	A	922	187.894	127.109	-10.492	1.00	46.46	A16S
ATOM	19239	O2P	G	A	922	186.831	126.268	-12.667	1.00	46.46	A16S
ATOM	19240	O5*	G	A	922	188.009	124.669	-11.113	1.00	53.10	A16S
ATOM	19241	C5*	G	A	922	188.655	124.326	-9.867	1.00	53.10	A16S
ATOM	19242	C4*	G	A	922	189.295	122.935	-9.894	1.00	53.10	A16S
ATOM	19243	O4*	G	A	922	188.324	121.885	-10.106	1.00	53.10	A16S



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ATOM	19244	C1*	G	A	922	188.985	120.721	-10.570	1.00	53.10	A16S
ATOM	19245	N9	G	A	922	188.397	120.309	-11.841	1.00	46.46	A16S
ATOM	19246	C4	G	A	922	188.436	119.046	-12.382	1.00	46.46	A16S
ATOM	19247	N3	G	A	922	189.038	117.978	-11.840	1.00	46.46	A16S
ATOM	19248	C2	G	A	922	188.889	116.904	-12.579	1.00	46.46	A16S
ATOM	19249	N2	G	A	922	189.429	115.761	-12.182	1.00	46.46	A16S
ATOM	19250	N1	G	A	922	188.197	116.876	-13.759	1.00	46.46	A16S
ATOM	19251	C6	G	A	922	187.566	117.967	-14.339	1.00	46.46	A16S
ATOM	19252	O6	G	A	922	186.949	117.836	-15.409	1.00	46.46	A16S
ATOM	19253	C5	G	A	922	187.731	119.130	-13.560	1.00	46.46	A16S
ATOM	19254	N7	G	A	922	187.279	120.425	-13.775	1.00	46.46	A16S
ATOM	19255	C8	G	A	922	187.697	121.090	-12.732	1.00	46.46	A16S
ATOM	19256	C2*	G	A	922	190.462	121.063	-10.718	1.00	53.10	A16S
ATOM	19257	O2*	G	A	922	191.115	120.651	-9.539	1.00	53.10	A16S
ATOM	19258	C3*	G	A	922	190.435	122.580	-10.833	1.00	53.10	A16S
ATOM	19259	O3*	G	A	922	191.665	123.062	-10.326	1.00	53.10	A16S
ATOM	19260	P	A	A	923	192.978	123.057	-11.253	1.00	63.37	A16S
ATOM	19261	O1P	A	A	923	194.056	123.630	-10.413	1.00	52.61	A16S
ATOM	19262	O2P	A	A	923	192.635	123.708	-12.547	1.00	52.61	A16S
ATOM	19263	O5*	A	A	923	193.299	121.513	-11.494	1.00	63.37	A16S
ATOM	19264	C5*	A	A	923	193.862	120.696	-10.448	1.00	63.37	A16S
ATOM	19265	C4*	A	A	923	194.000	119.256	-10.911	1.00	63.37	A16S
ATOM	19266	O4*	A	A	923	192.687	118.679	-11.138	1.00	63.37	A16S
ATOM	19267	C1*	A	A	923	192.719	117.837	-12.284	1.00	63.37	A16S
ATOM	19268	N9	A	A	923	191.969	118.513	-13.340	1.00	52.61	A16S
ATOM	19269	C4	A	A	923	191.338	117.946	-14.420	1.00	52.61	A16S
ATOM	19270	N3	A	A	923	191.293	116.644	-14.751	1.00	52.61	A16S
ATOM	19271	C2	A	A	923	190.566	116.473	-15.850	1.00	52.61	A16S
ATOM	19272	N1	A	A	923	189.923	117.389	-16.594	1.00	52.61	A16S
ATOM	19273	C6	A	A	923	189.989	118.684	-16.224	1.00	52.61	A16S
ATOM	19274	N6	A	A	923	189.330	119.593	-16.939	1.00	52.61	A16S
ATOM	19275	C5	A	A	923	190.739	118.995	-15.093	1.00	52.61	A16S
ATOM	19276	N7	A	A	923	191.013	120.199	-14.470	1.00	52.61	A16S
ATOM	19277	C8	A	A	923	191.747	119.861	-13.445	1.00	52.61	A16S
ATOM	19278	C2*	A	A	923	194.177	117.703	-12.703	1.00	63.37	A16S
ATOM	19279	O2*	A	A	923	194.767	116.593	-12.055	1.00	63.37	A16S
ATOM	19280	C3*	A	A	923	194.734	119.035	-12.228	1.00	63.37	A16S
ATOM	19281	O3*	A	A	923	196.139	119.005	-12.099	1.00	63.37	A16S
ATOM	19282	P	C	A	924	197.042	119.591	-13.290	1.00	57.41	A16S
ATOM	19283	O1P	C	A	924	198.434	119.575	-12.744	1.00	58.47	A16S
ATOM	19284	O2P	C	A	924	196.445	120.883	-13.759	1.00	58.47	A16S
ATOM	19285	O5*	C	A	924	196.881	118.503	-14.453	1.00	57.41	A16S
ATOM	19286	C5*	C	A	924	197.334	117.146	-14.259	1.00	57.41	A16S
ATOM	19287	C4*	C	A	924	196.814	116.238	-15.352	1.00	57.41	A16S
ATOM	19288	O4*	C	A	924	195.366	116.260	-15.338	1.00	57.41	A16S
ATOM	19289	C1*	C	A	924	194.871	116.095	-16.657	1.00	57.41	A16S
ATOM	19290	N1	C	A	924	194.116	117.305	-17.024	1.00	58.47	A16S
ATOM	19291	C6	C	A	924	194.416	118.506	-16.456	1.00	58.47	A16S
ATOM	19292	C2	C	A	924	193.095	117.213	-17.979	1.00	58.47	A16S
ATOM	19293	O2	C	A	924	192.840	116.112	-18.485	1.00	58.47	A16S
ATOM	19294	N3	C	A	924	192.419	118.325	-18.333	1.00	58.47	A16S
ATOM	19295	C4	C	A	924	192.735	119.493	-17.784	1.00	58.47	A16S
ATOM	19296	N4	C	A	924	192.066	120.576	-18.177	1.00	58.47	A16S
ATOM	19297	C5	C	A	924	193.760	119.611	-16.806	1.00	58.47	A16S
ATOM	19298	C2*	C	A	924	196.073	115.887	-17.577	1.00	57.41	A16S
ATOM	19299	O2*	C	A	924	196.326	114.507	-17.773	1.00	57.41	A16S
ATOM	19300	C3*	C	A	924	197.178	116.574	-16.790	1.00	57.41	A16S
ATOM	19301	O3*	C	A	924	198.454	116.086	-17.177	1.00	57.41	A16S
ATOM	19302	P	G	A	925	199.258	116.821	-18.367	1.00	55.75	A16S
ATOM	19303	O1P	G	A	925	200.588	116.168	-18.349	1.00	57.06	A16S
ATOM	19304	O2P	G	A	925	199.168	118.300	-18.233	1.00	57.06	A16S
ATOM	19305	O5*	G	A	925	198.470	116.405	-19.692	1.00	55.75	A16S
ATOM	19306	C5*	G	A	925	198.486	115.038	-20.171	1.00	55.75	A16S
ATOM	19307	C4*	G	A	925	197.899	114.964	-21.558	1.00	55.75	A16S
ATOM	19308	O4*	G	A	925	196.467	115.144	-21.491	1.00	55.75	A16S
ATOM	19309	C1*	G	A	925	196.024	115.933	-22.583	1.00	55.75	A16S
ATOM	19310	N9	G	A	925	195.419	117.140	-22.031	1.00	57.06	A16S
ATOM	19311	C4	G	A	925	194.374	117.881	-22.546	1.00	57.06	A16S
ATOM	19312	N3	G	A	925	193.712	117.642	-23.698	1.00	57.06	A16S
ATOM	19313	C2	G	A	925	192.743	118.531	-23.901	1.00	57.06	A16S
ATOM	19314	N2	G	A	925	191.975	118.458	-25.001	1.00	57.06	A16S
ATOM	19315	N1	G	A	925	192.449	119.563	-23.046	1.00	57.06	A16S
ATOM	19316	C6	G	A	925	193.118	119.831	-21.861	1.00	57.06	A16S
ATOM	19317	O6	G	A	925	192.778	120.804	-21.157	1.00	57.06	A16S
ATOM	19318	C5	G	A	925	194.160	118.889	-21.630	1.00	57.06	A16S
ATOM	19319	N7	G	A	925	195.058	118.797	-20.581	1.00	57.06	A16S
ATOM	19320	C8	G	A	925	195.784	117.752	-20.863	1.00	57.06	A16S



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ATOM	19321	C2*	G	A	925	197.234	116.213	-23.474	1.00	55.75	A16S
ATOM	19322	O2*	G	A	925	197.225	115.302	-24.550	1.00	55.75	A16S
ATOM	19323	C3*	G	A	925	198.393	116.045	-22.496	1.00	55.75	A16S
ATOM	19324	O3*	G	A	925	199.615	115.664	-23.106	1.00	55.75	A16S
ATOM	19325	P	G	A	926	200.749	116.775	-23.377	1.00	59.94	A16S
ATOM	19326	O1P	G	A	926	202.073	116.163	-23.084	1.00	61.13	A16S
ATOM	19327	O2P	G	A	926	200.363	118.027	-22.698	1.00	61.13	A16S
ATOM	19328	O5*	G	A	926	200.657	117.037	-24.943	1.00	59.94	A16S
ATOM	19329	C5*	G	A	926	199.830	116.209	-25.770	1.00	59.94	A16S
ATOM	19330	C4*	G	A	926	200.678	115.354	-26.675	1.00	59.94	A16S
ATOM	19331	O4*	G	A	926	201.709	114.687	-25.904	1.00	59.94	A16S
ATOM	19332	C1*	G	A	926	201.938	113.397	-26.438	1.00	59.94	A16S
ATOM	19333	N9	G	A	926	201.754	112.413	-25.382	1.00	61.13	A16S
ATOM	19334	C4	G	A	926	202.045	111.069	-25.454	1.00	61.13	A16S
ATOM	19335	N3	G	A	926	202.542	110.419	-26.526	1.00	61.13	A16S
ATOM	19336	C2	G	A	926	202.735	109.134	-26.277	1.00	61.13	A16S
ATOM	19337	N2	G	A	926	203.232	108.336	-27.227	1.00	61.13	A16S
ATOM	19338	N1	G	A	926	202.458	108.535	-25.077	1.00	61.13	A16S
ATOM	19339	C6	G	A	926	201.939	109.183	-23.961	1.00	61.13	A16S
ATOM	19340	O6	G	A	926	201.715	108.545	-22.919	1.00	61.13	A16S
ATOM	19341	C5	G	A	926	201.730	110.561	-24.212	1.00	61.13	A16S
ATOM	19342	N7	G	A	926	201.235	111.556	-23.385	1.00	61.13	A16S
ATOM	19343	C8	G	A	926	201.269	112.636	-24.120	1.00	61.13	A16S
ATOM	19344	C2*	G	A	926	201.000	113.197	-27.626	1.00	59.94	A16S
ATOM	19345	O2*	G	A	926	201.735	113.459	-28.803	1.00	59.94	A16S
ATOM	19346	C3*	G	A	926	199.914	114.229	-27.346	1.00	59.94	A16S
ATOM	19347	O3*	G	A	926	199.275	114.689	-28.520	1.00	59.94	A16S
ATOM	19348	P	G	A	927	197.821	115.358	-28.414	1.00	49.52	A16S
ATOM	19349	O1P	G	A	927	197.075	114.659	-27.344	1.00	48.78	A16S
ATOM	19350	O2P	G	A	927	197.212	115.480	-29.773	1.00	48.78	A16S
ATOM	19351	O5*	G	A	927	198.142	116.823	-27.892	1.00	49.52	A16S
ATOM	19352	C5*	G	A	927	197.186	117.529	-27.112	1.00	49.52	A16S
ATOM	19353	C4*	G	A	927	196.335	118.384	-28.002	1.00	49.52	A16S
ATOM	19354	O4*	G	A	927	195.024	118.442	-27.410	1.00	49.52	A16S
ATOM	19355	C1*	G	A	927	194.469	119.727	-27.611	1.00	49.52	A16S
ATOM	19356	N9	G	A	927	194.401	120.395	-26.321	1.00	48.78	A16S
ATOM	19357	C4	G	A	927	193.649	121.488	-26.036	1.00	48.78	A16S
ATOM	19358	N3	G	A	927	192.790	122.089	-26.882	1.00	48.78	A16S
ATOM	19359	C2	G	A	927	192.212	123.124	-26.327	1.00	48.78	A16S
ATOM	19360	N2	G	A	927	191.303	123.812	-27.009	1.00	48.78	A16S
ATOM	19361	N1	G	A	927	192.476	123.557	-25.050	1.00	48.78	A16S
ATOM	19362	C6	G	A	927	193.371	122.957	-24.167	1.00	48.78	A16S
ATOM	19363	O6	G	A	927	193.556	123.436	-23.038	1.00	48.78	A16S
ATOM	19364	C5	G	A	927	193.972	121.827	-24.742	1.00	48.78	A16S
ATOM	19365	N7	G	A	927	194.887	120.933	-24.212	1.00	48.78	A16S
ATOM	19366	C8	G	A	927	195.107	120.096	-25.181	1.00	48.78	A16S
ATOM	19367	C2*	G	A	927	195.424	120.511	-28.505	1.00	49.52	A16S
ATOM	19368	O2*	G	A	927	195.024	120.392	-29.854	1.00	49.52	A16S
ATOM	19369	C3*	G	A	927	196.746	119.838	-28.183	1.00	49.52	A16S
ATOM	19370	O3*	G	A	927	197.696	120.075	-29.200	1.00	49.52	A16S
ATOM	19371	P	G	A	928	198.505	121.469	-29.212	1.00	52.71	A16S
ATOM	19372	O1P	G	A	928	199.324	121.488	-30.443	1.00	61.79	A16S
ATOM	19373	O2P	G	A	928	199.165	121.672	-27.890	1.00	61.79	A16S
ATOM	19374	O5*	G	A	928	197.382	122.581	-29.395	1.00	52.71	A16S
ATOM	19375	C5*	G	A	928	196.754	122.773	-30.663	1.00	52.71	A16S
ATOM	19376	C4*	G	A	928	195.890	124.009	-30.641	1.00	52.71	A16S
ATOM	19377	O4*	G	A	928	194.821	123.857	-29.667	1.00	52.71	A16S
ATOM	19378	C1*	G	A	928	194.538	125.107	-29.059	1.00	52.71	A16S
ATOM	19379	N9	G	A	928	194.927	125.034	-27.653	1.00	61.79	A16S
ATOM	19380	C4	G	A	928	194.636	125.953	-26.677	1.00	61.79	A16S
ATOM	19381	N3	G	A	928	193.891	127.066	-26.833	1.00	61.79	A16S
ATOM	19382	C2	G	A	928	193.806	127.764	-25.714	1.00	61.79	A16S
ATOM	19383	N2	G	A	928	193.088	128.894	-25.685	1.00	61.79	A16S
ATOM	19384	N1	G	A	928	194.415	127.402	-24.541	1.00	61.79	A16S
ATOM	19385	C6	G	A	928	195.191	126.264	-24.362	1.00	61.79	A16S
ATOM	19386	O6	G	A	928	195.711	126.040	-23.268	1.00	61.79	A16S
ATOM	19387	C5	G	A	928	195.277	125.500	-25.546	1.00	61.79	A16S
ATOM	19388	N7	G	A	928	195.932	124.303	-25.794	1.00	61.79	A16S
ATOM	19389	C8	G	A	928	195.691	124.061	-27.052	1.00	61.79	A16S
ATOM	19390	C2*	G	A	928	195.398	126.141	-29.775	1.00	52.71	A16S
ATOM	19391	O2*	G	A	928	194.687	126.654	-30.883	1.00	52.71	A16S
ATOM	19392	C3*	G	A	928	196.571	125.290	-30.224	1.00	52.71	A16S
ATOM	19393	O3*	G	A	928	197.275	125.893	-31.275	1.00	52.71	A16S
ATOM	19394	P	G	A	929	198.539	126.815	-30.930	1.00	72.30	A16S
ATOM	19395	O1P	G	A	929	199.118	127.255	-32.223	1.00	57.79	A16S
ATOM	19396	O2P	G	A	929	199.390	126.100	-29.937	1.00	57.79	A16S
ATOM	19397	O5*	G	A	929	197.906	128.089	-30.231	1.00	72.30	A16S



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ATOM	19398	C5*	G	A	929	197.034	128.932	-30.976	1.00	72.30	A16S
ATOM	19399	C4*	G	A	929	196.588	130.093	-30.139	1.00	72.30	A16S
ATOM	19400	O4*	G	A	929	195.746	129.629	-29.057	1.00	72.30	A16S
ATOM	19401	C1*	G	A	929	195.906	130.485	-27.941	1.00	72.30	A16S
ATOM	19402	N9	G	A	929	196.401	129.712	-26.809	1.00	57.79	A16S
ATOM	19403	C4	G	A	929	196.367	130.131	-25.510	1.00	57.79	A16S
ATOM	19404	N3	G	A	929	195.861	131.303	-25.081	1.00	57.79	A16S
ATOM	19405	C2	G	A	929	195.971	131.441	-23.780	1.00	57.79	A16S
ATOM	19406	N2	G	A	929	195.494	132.549	-23.202	1.00	57.79	A16S
ATOM	19407	N1	G	A	929	196.549	130.504	-22.956	1.00	57.79	A16S
ATOM	19408	C6	G	A	929	197.085	129.289	-23.377	1.00	57.79	A16S
ATOM	19409	O6	G	A	929	197.595	128.520	-22.553	1.00	57.79	A16S
ATOM	19410	C5	G	A	929	196.957	129.124	-24.782	1.00	57.79	A16S
ATOM	19411	N7	G	A	929	197.349	128.080	-25.611	1.00	57.79	A16S
ATOM	19412	C8	G	A	929	196.999	128.473	-26.807	1.00	57.79	A16S
ATOM	19413	C2*	G	A	929	196.923	131.560	-28.319	1.00	72.30	A16S
ATOM	19414	O2*	G	A	929	196.270	132.734	-28.769	1.00	72.30	A16S
ATOM	19415	C3*	G	A	929	197.681	130.870	-29.436	1.00	72.30	A16S
ATOM	19416	O3*	G	A	929	198.312	131.813	-30.255	1.00	72.30	A16S
ATOM	19417	P	C	A	930	199.764	132.332	-29.842	1.00	72.30	A16S
ATOM	19418	O1P	C	A	930	200.144	133.295	-30.900	1.00	60.99	A16S
ATOM	19419	O2P	C	A	930	200.662	131.181	-29.514	1.00	60.99	A16S
ATOM	19420	O5*	C	A	930	199.521	133.110	-28.485	1.00	72.30	A16S
ATOM	19421	C5*	C	A	930	198.810	134.328	-28.485	1.00	72.30	A16S
ATOM	19422	C4*	C	A	930	198.784	134.901	-27.101	1.00	72.30	A16S
ATOM	19423	O4*	C	A	930	198.066	134.019	-26.205	1.00	72.30	A16S
ATOM	19424	C1*	C	A	930	198.551	134.197	-24.893	1.00	72.30	A16S
ATOM	19425	N1	C	A	930	199.032	132.925	-24.386	1.00	60.99	A16S
ATOM	19426	C6	C	A	930	199.365	131.905	-25.224	1.00	60.99	A16S
ATOM	19427	C2	C	A	930	199.170	132.781	-23.011	1.00	60.99	A16S
ATOM	19428	O2	C	A	930	198.854	133.724	-22.280	1.00	60.99	A16S
ATOM	19429	N3	C	A	930	199.647	131.632	-22.508	1.00	60.99	A16S
ATOM	19430	C4	C	A	930	199.984	130.646	-23.329	1.00	60.99	A16S
ATOM	19431	N4	C	A	930	200.457	129.531	-22.790	1.00	60.99	A16S
ATOM	19432	C5	C	A	930	199.847	130.761	-24.743	1.00	60.99	A16S
ATOM	19433	C2*	C	A	930	199.712	135.177	-24.955	1.00	72.30	A16S
ATOM	19434	O2*	C	A	930	199.227	136.457	-24.620	1.00	72.30	A16S
ATOM	19435	C3*	C	A	930	200.119	135.077	-26.415	1.00	72.30	A16S
ATOM	19436	O3*	C	A	930	200.755	136.253	-26.840	1.00	72.30	A16S
ATOM	19437	P	C	A	931	202.336	136.415	-26.629	1.00	65.42	A16S
ATOM	19438	O1P	C	A	931	202.544	137.889	-26.789	1.00	57.72	A16S
ATOM	19439	O2P	C	A	931	203.079	135.469	-27.513	1.00	57.72	A16S
ATOM	19440	O5*	C	A	931	202.572	135.988	-25.106	1.00	65.42	A16S
ATOM	19441	C5*	C	A	931	202.113	136.846	-24.054	1.00	65.42	A16S
ATOM	19442	C4*	C	A	931	202.602	136.391	-22.702	1.00	65.42	A16S
ATOM	19443	O4*	C	A	931	201.947	135.173	-22.276	1.00	65.42	A16S
ATOM	19444	C1*	C	A	931	202.678	134.630	-21.195	1.00	65.42	A16S
ATOM	19445	N1	C	A	931	202.896	133.187	-21.384	1.00	57.72	A16S
ATOM	19446	C6	C	A	931	202.726	132.577	-22.592	1.00	57.72	A16S
ATOM	19447	C2	C	A	931	203.347	132.453	-20.287	1.00	57.72	A16S
ATOM	19448	O2	C	A	931	203.419	133.015	-19.190	1.00	57.72	A16S
ATOM	19449	N3	C	A	931	203.695	131.165	-20.444	1.00	57.72	A16S
ATOM	19450	C4	C	A	931	203.600	130.599	-21.637	1.00	57.72	A16S
ATOM	19451	N4	C	A	931	204.044	129.352	-21.766	1.00	57.72	A16S
ATOM	19452	C5	C	A	931	203.067	131.296	-22.762	1.00	57.72	A16S
ATOM	19453	C2*	C	A	931	204.024	135.357	-21.137	1.00	65.42	A16S
ATOM	19454	O2*	C	A	931	204.023	136.217	-20.013	1.00	65.42	A16S
ATOM	19455	C3*	C	A	931	204.068	136.076	-22.487	1.00	65.42	A16S
ATOM	19456	O3*	C	A	931	204.870	137.255	-22.438	1.00	65.42	A16S
ATOM	19457	P	C	A	932	206.444	137.155	-22.062	1.00	56.50	A16S
ATOM	19458	O1P	C	A	932	207.085	138.413	-22.565	1.00	59.01	A16S
ATOM	19459	O2P	C	A	932	207.023	135.828	-22.451	1.00	59.01	A16S
ATOM	19460	O5*	C	A	932	206.442	137.194	-20.469	1.00	56.50	A16S
ATOM	19461	C5*	C	A	932	207.596	136.810	-19.748	1.00	56.50	A16S
ATOM	19462	C4*	C	A	932	207.219	136.336	-18.380	1.00	56.50	A16S
ATOM	19463	O4*	C	A	932	206.238	135.281	-18.475	1.00	56.50	A16S
ATOM	19464	C1*	C	A	932	206.524	134.283	-17.513	1.00	56.50	A16S
ATOM	19465	N1	C	A	932	206.753	133.020	-18.228	1.00	59.01	A16S
ATOM	19466	C6	C	A	932	206.644	132.963	-19.585	1.00	59.01	A16S
ATOM	19467	C2	C	A	932	207.114	131.874	-17.502	1.00	59.01	A16S
ATOM	19468	O2	C	A	932	207.165	131.937	-16.265	1.00	59.01	A16S
ATOM	19469	N3	C	A	932	207.395	130.734	-18.166	1.00	59.01	A16S
ATOM	19470	C4	C	A	932	207.317	130.706	-19.495	1.00	59.01	A16S
ATOM	19471	N4	C	A	932	207.637	129.580	-20.117	1.00	59.01	A16S
ATOM	19472	C5	C	A	932	206.913	131.839	-20.250	1.00	59.01	A16S
ATOM	19473	C2*	C	A	932	207.758	134.730	-16.714	1.00	56.50	A16S
ATOM	19474	O2*	C	A	932	207.405	135.333	-15.491	1.00	56.50	A16S



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ATOM	19475	C3*	C	A	932	208.400	135.721	-17.663	1.00	56.50	A16S
ATOM	19476	O3*	C	A	932	209.118	136.731	-16.987	1.00	56.50	A16S
ATOM	19477	P	G	A	933	210.683	136.914	-17.269	1.00	54.29	A16S
ATOM	19478	O1P	G	A	933	211.003	138.249	-16.748	1.00	52.79	A16S
ATOM	19479	O2P	G	A	933	211.045	136.595	-18.679	1.00	52.79	A16S
ATOM	19480	O5*	G	A	933	211.332	135.836	-16.299	1.00	54.29	A16S
ATOM	19481	C5*	G	A	933	211.355	136.078	-14.904	1.00	54.29	A16S
ATOM	19482	C4*	G	A	933	211.695	134.826	-14.162	1.00	54.29	A16S
ATOM	19483	O4*	G	A	933	210.715	133.816	-14.469	1.00	54.29	A16S
ATOM	19484	C1*	G	A	933	211.316	132.541	-14.396	1.00	54.29	A16S
ATOM	19485	N9	G	A	933	211.130	131.879	-15.678	1.00	52.79	A16S
ATOM	19486	C4	G	A	933	211.015	130.533	-15.869	1.00	52.79	A16S
ATOM	19487	N3	G	A	933	211.044	129.600	-14.904	1.00	52.79	A16S
ATOM	19488	C2	G	A	933	210.927	128.381	-15.399	1.00	52.79	A16S
ATOM	19489	N2	G	A	933	210.946	127.314	-14.573	1.00	52.79	A16S
ATOM	19490	N1	G	A	933	210.786	128.110	-16.738	1.00	52.79	A16S
ATOM	19491	C6	G	A	933	210.759	129.064	-17.745	1.00	52.79	A16S
ATOM	19492	O6	G	A	933	210.650	128.715	-18.914	1.00	52.79	A16S
ATOM	19493	C5	G	A	933	210.880	130.364	-17.232	1.00	52.79	A16S
ATOM	19494	N7	G	A	933	210.899	131.588	-17.887	1.00	52.79	A16S
ATOM	19495	C8	G	A	933	211.048	132.460	-16.926	1.00	52.79	A16S
ATOM	19496	C2*	G	A	933	212.793	132.736	-14.062	1.00	54.29	A16S
ATOM	19497	O2*	G	A	933	212.983	132.545	-12.676	1.00	54.29	A16S
ATOM	19498	C3*	G	A	933	213.018	134.175	-14.506	1.00	54.29	A16S
ATOM	19499	O3*	G	A	933	214.100	134.815	-13.837	1.00	54.29	A16S
ATOM	19500	P	C	A	934	215.220	135.583	-14.705	1.00	57.14	A16S
ATOM	19501	O1P	C	A	934	215.945	136.527	-13.808	1.00	80.72	A16S
ATOM	19502	O2P	C	A	934	214.583	136.109	-15.949	1.00	80.72	A16S
ATOM	19503	O5*	C	A	934	216.226	134.403	-15.066	1.00	57.14	A16S
ATOM	19504	C5*	C	A	934	216.701	133.499	-14.038	1.00	57.14	A16S
ATOM	19505	C4*	C	A	934	217.200	132.219	-14.667	1.00	57.14	A16S
ATOM	19506	O4*	C	A	934	218.310	132.510	-15.557	1.00	57.14	A16S
ATOM	19507	C1*	C	A	934	219.337	131.576	-15.330	1.00	57.14	A16S
ATOM	19508	N1	C	A	934	220.606	132.153	-15.804	1.00	80.72	A16S
ATOM	19509	C6	C	A	934	221.404	132.901	-14.985	1.00	80.72	A16S
ATOM	19510	C2	C	A	934	220.974	131.932	-17.139	1.00	80.72	A16S
ATOM	19511	O2	C	A	934	220.244	131.225	-17.859	1.00	80.72	A16S
ATOM	19512	N3	C	A	934	222.109	132.490	-17.612	1.00	80.72	A16S
ATOM	19513	C4	C	A	934	222.866	133.240	-16.812	1.00	80.72	A16S
ATOM	19514	N4	C	A	934	223.962	133.807	-17.334	1.00	80.72	A16S
ATOM	19515	C5	C	A	934	222.531	133.457	-15.443	1.00	80.72	A16S
ATOM	19516	C2*	C	A	934	219.193	131.158	-13.869	1.00	57.14	A16S
ATOM	19517	O2*	C	A	934	219.780	129.890	-13.663	1.00	57.14	A16S
ATOM	19518	C3*	C	A	934	217.674	131.098	-13.742	1.00	57.14	A16S
ATOM	19519	O3*	C	A	934	217.250	129.869	-14.324	1.00	57.14	A16S
ATOM	19520	P	A	A	935	216.224	128.918	-13.547	1.00	65.31	A16S
ATOM	19521	O1P	A	A	935	215.279	129.762	-12.775	1.00	49.42	A16S
ATOM	19522	O2P	A	A	935	217.014	127.877	-12.848	1.00	49.42	A16S
ATOM	19523	O5*	A	A	935	215.418	128.231	-14.728	1.00	65.31	A16S
ATOM	19524	C5*	A	A	935	214.986	126.878	-14.611	1.00	65.31	A16S
ATOM	19525	C4*	A	A	935	214.694	126.320	-15.970	1.00	65.31	A16S
ATOM	19526	O4*	A	A	935	213.590	127.053	-16.544	1.00	65.31	A16S
ATOM	19527	C1*	A	A	935	213.768	127.163	-17.939	1.00	65.31	A16S
ATOM	19528	N9	A	A	935	213.827	128.576	-18.281	1.00	49.42	A16S
ATOM	19529	C4	A	A	935	213.719	129.101	-19.546	1.00	49.42	A16S
ATOM	19530	N3	A	A	935	213.539	128.430	-20.694	1.00	49.42	A16S
ATOM	19531	C2	A	A	935	213.491	129.268	-21.724	1.00	49.42	A16S
ATOM	19532	N1	A	A	935	213.595	130.593	-21.737	1.00	49.42	A16S
ATOM	19533	C6	A	A	935	213.775	131.236	-20.569	1.00	49.42	A16S
ATOM	19534	N6	A	A	935	213.876	132.564	-20.589	1.00	49.42	A16S
ATOM	19535	C5	A	A	935	213.844	130.463	-19.401	1.00	49.42	A16S
ATOM	19536	N7	A	A	935	214.026	130.794	-18.068	1.00	49.42	A16S
ATOM	19537	C8	A	A	935	214.008	129.639	-17.447	1.00	49.42	A16S
ATOM	19538	C2*	A	A	935	215.066	126.445	-18.305	1.00	65.31	A16S
ATOM	19539	O2*	A	A	935	214.773	125.123	-18.701	1.00	65.31	A16S
ATOM	19540	C3*	A	A	935	215.814	126.469	-16.985	1.00	65.31	A16S
ATOM	19541	O3*	A	A	935	216.743	125.397	-16.906	1.00	65.31	A16S
ATOM	19542	P	C	A	936	218.207	125.566	-17.552	1.00	60.29	A16S
ATOM	19543	O1P	C	A	936	218.903	124.296	-17.205	1.00	54.02	A16S
ATOM	19544	O2P	C	A	936	218.817	126.873	-17.149	1.00	54.02	A16S
ATOM	19545	O5*	C	A	936	217.929	125.624	-19.122	1.00	60.29	A16S
ATOM	19546	C5*	C	A	936	217.638	124.423	-19.848	1.00	60.29	A16S
ATOM	19547	C4*	C	A	936	217.359	124.728	-21.297	1.00	60.29	A16S
ATOM	19548	O4*	C	A	936	216.270	125.675	-21.369	1.00	60.29	A16S
ATOM	19549	C1*	C	A	936	216.402	126.453	-22.541	1.00	60.29	A16S
ATOM	19550	N1	C	A	936	216.493	127.864	-22.171	1.00	54.02	A16S
ATOM	19551	C6	C	A	936	216.676	128.253	-20.874	1.00	54.02	A16S



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ATOM	19552	C2	C	A	936	216.419	128.808	-23.188	1.00	54.02	A16S
ATOM	19553	O2	C	A	936	216.202	128.420	-24.337	1.00	54.02	A16S
ATOM	19554	N3	C	A	936	216.579	130.108	-22.899	1.00	54.02	A16S
ATOM	19555	C4	C	A	936	216.790	130.482	-21.639	1.00	54.02	A16S
ATOM	19556	N4	C	A	936	216.973	131.782	-21.398	1.00	54.02	A16S
ATOM	19557	C5	C	A	936	216.828	129.539	-20.565	1.00	54.02	A16S
ATOM	19558	C2*	C	A	936	217.678	126.019	-23.261	1.00	60.29	A16S
ATOM	19559	O2*	C	A	936	217.350	125.134	-24.316	1.00	60.29	A16S
ATOM	19560	C3*	C	A	936	218.462	125.365	-22.131	1.00	60.29	A16S
ATOM	19561	O3*	C	A	936	219.391	124.418	-22.650	1.00	60.29	A16S
ATOM	19562	P	A	A	937	220.896	124.880	-22.985	1.00	53.07	A16S
ATOM	19563	O1P	A	A	937	221.522	123.703	-23.629	1.00	79.01	A16S
ATOM	19564	O2P	A	A	937	221.529	125.480	-21.780	1.00	79.01	A16S
ATOM	19565	O5*	A	A	937	220.734	126.045	-24.061	1.00	53.07	A16S
ATOM	19566	C5*	A	A	937	220.367	125.743	-25.414	1.00	53.07	A16S
ATOM	19567	C4*	A	A	937	220.099	127.012	-26.184	1.00	53.07	A16S
ATOM	19568	O4*	A	A	937	219.090	127.779	-25.475	1.00	53.07	A16S
ATOM	19569	C1*	A	A	937	219.333	129.168	-25.640	1.00	53.07	A16S
ATOM	19570	N9	A	A	937	219.657	129.751	-24.332	1.00	79.01	A16S
ATOM	19571	C4	A	A	937	219.777	131.096	-24.062	1.00	79.01	A16S
ATOM	19572	N3	A	A	937	219.625	132.118	-24.923	1.00	79.01	A16S
ATOM	19573	C2	A	A	937	219.828	133.286	-24.314	1.00	79.01	A16S
ATOM	19574	N1	A	A	937	220.130	133.529	-23.038	1.00	79.01	A16S
ATOM	19575	C6	A	A	937	220.274	132.476	-22.196	1.00	79.01	A16S
ATOM	19576	N6	A	A	937	220.571	132.715	-20.916	1.00	79.01	A16S
ATOM	19577	C5	A	A	937	220.098	131.185	-22.722	1.00	79.01	A16S
ATOM	19578	N7	A	A	937	220.186	129.921	-22.149	1.00	79.01	A16S
ATOM	19579	C8	A	A	937	219.915	129.107	-23.140	1.00	79.01	A16S
ATOM	19580	C2*	A	A	937	220.499	129.297	-26.611	1.00	53.07	A16S
ATOM	19581	O2*	A	A	937	219.934	129.335	-27.903	1.00	53.07	A16S
ATOM	19582	C3*	A	A	937	221.249	127.996	-26.352	1.00	53.07	A16S
ATOM	19583	O3*	A	A	937	222.138	127.651	-27.411	1.00	53.07	A16S
ATOM	19584	P	A	A	938	223.730	127.686	-27.155	1.00	67.72	A16S
ATOM	19585	O1P	A	A	938	224.417	127.180	-28.380	1.00	56.18	A16S
ATOM	19586	O2P	A	A	938	224.001	127.028	-25.834	1.00	56.18	A16S
ATOM	19587	O5*	A	A	938	224.056	129.242	-27.036	1.00	67.72	A16S
ATOM	19588	C5*	A	A	938	224.138	130.064	-28.209	1.00	67.72	A16S
ATOM	19589	C4*	A	A	938	224.532	131.468	-27.832	1.00	67.72	A16S
ATOM	19590	O4*	A	A	938	223.529	131.984	-26.927	1.00	67.72	A16S
ATOM	19591	C1*	A	A	938	224.143	132.744	-25.902	1.00	67.72	A16S
ATOM	19592	N9	A	A	938	223.921	132.022	-24.652	1.00	56.18	A16S
ATOM	19593	C4	A	A	938	224.198	132.442	-23.377	1.00	56.18	A16S
ATOM	19594	N3	A	A	938	224.768	133.594	-23.006	1.00	56.18	A16S
ATOM	19595	C2	A	A	938	224.836	133.671	-21.680	1.00	56.18	A16S
ATOM	19596	N1	A	A	938	224.430	132.793	-20.758	1.00	56.18	A16S
ATOM	19597	C6	A	A	938	223.872	131.643	-21.173	1.00	56.18	A16S
ATOM	19598	N6	A	A	938	223.468	130.764	-20.264	1.00	56.18	A16S
ATOM	19599	C5	A	A	938	223.745	131.439	-22.545	1.00	56.18	A16S
ATOM	19600	N7	A	A	938	223.227	130.385	-23.279	1.00	56.18	A16S
ATOM	19601	C8	A	A	938	223.360	130.776	-24.520	1.00	56.18	A16S
ATOM	19602	C2*	A	A	938	225.622	132.870	-26.254	1.00	67.72	A16S
ATOM	19603	O2*	A	A	938	225.837	134.047	-27.016	1.00	67.72	A16S
ATOM	19604	C3*	A	A	938	225.837	131.603	-27.067	1.00	67.72	A16S
ATOM	19605	O3*	A	A	938	226.958	131.719	-27.917	1.00	67.72	A16S
ATOM	19606	P	G	A	939	228.302	130.946	-27.536	1.00	71.09	A16S
ATOM	19607	O1P	G	A	939	229.263	131.339	-28.575	1.00	67.28	A16S
ATOM	19608	O2P	G	A	939	227.971	129.519	-27.330	1.00	67.28	A16S
ATOM	19609	O5*	G	A	939	228.740	131.548	-26.125	1.00	71.09	A16S
ATOM	19610	C5*	G	A	939	229.031	132.955	-25.976	1.00	71.09	A16S
ATOM	19611	C4*	G	A	939	229.297	133.319	-24.516	1.00	71.09	A16S
ATOM	19612	O4*	G	A	939	228.087	133.214	-23.718	1.00	71.09	A16S
ATOM	19613	C1*	G	A	939	228.437	132.959	-22.364	1.00	71.09	A16S
ATOM	19614	N9	G	A	939	227.723	131.777	-21.893	1.00	67.28	A16S
ATOM	19615	C4	G	A	939	227.328	131.537	-20.604	1.00	67.28	A16S
ATOM	19616	N3	G	A	939	227.527	132.353	-19.551	1.00	67.28	A16S
ATOM	19617	C2	G	A	939	227.033	131.848	-18.438	1.00	67.28	A16S
ATOM	19618	N2	G	A	939	227.153	132.527	-17.295	1.00	67.28	A16S
ATOM	19619	N1	G	A	939	226.389	130.639	-18.365	1.00	67.28	A16S
ATOM	19620	C6	G	A	939	226.173	129.787	-19.443	1.00	67.28	A16S
ATOM	19621	O6	G	A	939	225.582	128.717	-19.278	1.00	67.28	A16S
ATOM	19622	C5	G	A	939	226.702	130.313	-20.636	1.00	67.28	A16S
ATOM	19623	N7	G	A	939	226.703	129.792	-21.919	1.00	67.28	A16S
ATOM	19624	C8	G	A	939	227.318	130.694	-22.631	1.00	67.28	A16S
ATOM	19625	C2*	G	A	939	229.957	132.811	-22.274	1.00	71.09	A16S
ATOM	19626	O2*	G	A	939	230.512	134.013	-21.780	1.00	71.09	A16S
ATOM	19627	C3*	G	A	939	230.340	132.533	-23.727	1.00	71.09	A16S
ATOM	19628	O3*	G	A	939	231.659	133.002	-23.957	1.00	71.09	A16S



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ATOM	19629	P	C	A	940	232.900	132.065	-23.580	1.00	52.65	A16S
ATOM	19630	O1P	C	A	940	234.102	132.677	-24.199	1.00	69.88	A16S
ATOM	19631	O2P	C	A	940	232.536	130.672	-23.900	1.00	69.88	A16S
ATOM	19632	O5*	C	A	940	233.020	132.140	-21.995	1.00	52.65	A16S
ATOM	19633	C5*	C	A	940	233.763	133.198	-21.381	1.00	52.65	A16S
ATOM	19634	C4*	C	A	940	233.650	133.130	-19.877	1.00	52.65	A16S
ATOM	19635	O4*	C	A	940	232.260	133.215	-19.472	1.00	52.65	A16S
ATOM	19636	C1*	C	A	940	232.076	132.513	-18.255	1.00	52.65	A16S
ATOM	19637	N1	C	A	940	231.091	131.444	-18.466	1.00	69.88	A16S
ATOM	19638	C6	C	A	940	230.833	130.963	-19.719	1.00	69.88	A16S
ATOM	19639	C2	C	A	940	230.434	130.899	-17.347	1.00	69.88	A16S
ATOM	19640	O2	C	A	940	230.650	131.376	-16.223	1.00	69.88	A16S
ATOM	19641	N3	C	A	940	229.585	129.872	-17.523	1.00	69.88	A16S
ATOM	19642	C4	C	A	940	229.366	129.393	-18.746	1.00	69.88	A16S
ATOM	19643	N4	C	A	940	228.542	128.358	-18.865	1.00	69.88	A16S
ATOM	19644	C5	C	A	940	229.988	129.949	-19.902	1.00	69.88	A16S
ATOM	19645	C2*	C	A	940	233.423	131.916	-17.859	1.00	52.65	A16S
ATOM	19646	O2*	C	A	940	234.056	132.739	-16.897	1.00	52.65	A16S
ATOM	19647	C3*	C	A	940	234.136	131.869	-19.202	1.00	52.65	A16S
ATOM	19648	O3*	C	A	940	235.528	131.841	-19.041	1.00	52.65	A16S
ATOM	19649	P	G	A	941	236.258	130.420	-18.881	1.00	42.84	A16S
ATOM	19650	O1P	G	A	941	237.735	130.666	-18.875	1.00	81.64	A16S
ATOM	19651	O2P	G	A	941	235.672	129.481	-19.894	1.00	81.64	A16S
ATOM	19652	O5*	G	A	941	235.815	129.918	-17.431	1.00	42.84	A16S
ATOM	19653	C5*	G	A	941	236.228	130.633	-16.267	1.00	42.84	A16S
ATOM	19654	C4*	G	A	941	235.552	130.089	-15.041	1.00	42.84	A16S
ATOM	19655	O4*	G	A	941	234.124	130.318	-15.130	1.00	42.84	A16S
ATOM	19656	C1*	G	A	941	233.451	129.285	-14.436	1.00	42.84	A16S
ATOM	19657	N9	G	A	941	232.606	128.558	-15.375	1.00	81.64	A16S
ATOM	19658	C4	G	A	941	231.605	127.685	-15.036	1.00	81.64	A16S
ATOM	19659	N3	G	A	941	231.207	127.388	-13.785	1.00	81.64	A16S
ATOM	19660	C2	G	A	941	230.234	126.503	-13.775	1.00	81.64	A16S
ATOM	19661	N2	G	A	941	229.705	126.118	-12.620	1.00	81.64	A16S
ATOM	19662	N1	G	A	941	229.703	125.934	-14.897	1.00	81.64	A16S
ATOM	19663	C6	G	A	941	230.098	126.214	-16.196	1.00	81.64	A16S
ATOM	19664	O6	G	A	941	229.558	125.626	-17.141	1.00	81.64	A16S
ATOM	19665	C5	G	A	941	231.134	127.188	-16.227	1.00	81.64	A16S
ATOM	19666	N7	G	A	941	231.806	127.762	-17.301	1.00	81.64	A16S
ATOM	19667	C8	G	A	941	232.666	128.570	-16.747	1.00	81.64	A16S
ATOM	19668	C2*	G	A	941	234.509	128.342	-13.858	1.00	42.84	A16S
ATOM	19669	O2*	G	A	941	234.862	128.709	-12.541	1.00	42.84	A16S
ATOM	19670	C3*	G	A	941	235.688	128.599	-14.770	1.00	42.84	A16S
ATOM	19671	O3*	G	A	941	236.868	128.276	-14.057	1.00	42.84	A16S
ATOM	19672	P	G	A	942	237.431	126.762	-14.074	1.00	46.75	A16S
ATOM	19673	O1P	G	A	942	238.503	126.735	-13.035	1.00	67.32	A16S
ATOM	19674	O2P	G	A	942	237.757	126.402	-15.480	1.00	67.32	A16S
ATOM	19675	O5*	G	A	942	236.229	125.837	-13.552	1.00	46.75	A16S
ATOM	19676	C5*	G	A	942	235.888	125.854	-12.148	1.00	46.75	A16S
ATOM	19677	C4*	G	A	942	234.701	124.954	-11.804	1.00	46.75	A16S
ATOM	19678	O4*	G	A	942	233.531	125.214	-12.618	1.00	46.75	A16S
ATOM	19679	C1*	G	A	942	232.573	124.223	-12.327	1.00	46.75	A16S
ATOM	19680	N9	G	A	942	231.946	123.726	-13.542	1.00	67.32	A16S
ATOM	19681	C4	G	A	942	231.005	122.722	-13.581	1.00	67.32	A16S
ATOM	19682	N3	G	A	942	230.464	122.102	-12.508	1.00	67.32	A16S
ATOM	19683	C2	G	A	942	229.610	121.156	-12.857	1.00	67.32	A16S
ATOM	19684	N2	G	A	942	228.948	120.462	-11.914	1.00	67.32	A16S
ATOM	19685	N1	G	A	942	229.331	120.823	-14.153	1.00	67.32	A16S
ATOM	19686	C6	G	A	942	229.874	121.438	-15.273	1.00	67.32	A16S
ATOM	19687	O6	G	A	942	229.552	121.043	-16.400	1.00	67.32	A16S
ATOM	19688	C5	G	A	942	230.776	122.486	-14.911	1.00	67.32	A16S
ATOM	19689	N7	G	A	942	231.516	123.362	-15.699	1.00	67.32	A16S
ATOM	19690	C8	G	A	942	232.186	124.085	-14.841	1.00	67.32	A16S
ATOM	19691	C2*	G	A	942	233.312	123.081	-11.632	1.00	46.75	A16S
ATOM	19692	O2*	G	A	942	232.971	123.162	-10.274	1.00	46.75	A16S
ATOM	19693	C3*	G	A	942	234.776	123.438	-11.849	1.00	46.75	A16S
ATOM	19694	O3*	G	A	942	235.495	122.873	-10.758	1.00	46.75	A16S
ATOM	19695	P	U	A	943	235.859	121.301	-10.772	1.00	46.17	A16S
ATOM	19696	O1P	U	A	943	236.727	120.946	-9.599	1.00	62.05	A16S
ATOM	19697	O2P	U	A	943	236.313	120.959	-12.145	1.00	62.05	A16S
ATOM	19698	O5*	U	A	943	234.472	120.573	-10.508	1.00	46.17	A16S
ATOM	19699	C5*	U	A	943	233.950	120.519	-9.186	1.00	46.17	A16S
ATOM	19700	C4*	U	A	943	232.731	119.652	-9.130	1.00	46.17	A16S
ATOM	19701	O4*	U	A	943	231.758	120.127	-10.085	1.00	46.17	A16S
ATOM	19702	C1*	U	A	943	231.038	119.030	-10.603	1.00	46.17	A16S
ATOM	19703	N1	U	A	943	231.317	118.930	-12.042	1.00	62.05	A16S
ATOM	19704	C6	U	A	943	232.259	119.710	-12.655	1.00	62.05	A16S
ATOM	19705	C2	U	A	943	230.598	118.004	-12.756	1.00	62.05	A16S



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ATOM	19706	O2	U	A	943	229.740	117.304	-12.246	1.00	62.05	A16S
ATOM	19707	N3	U	A	943	230.911	117.925	-14.088	1.00	62.05	A16S
ATOM	19708	C4	U	A	943	231.838	118.668	-14.762	1.00	62.05	A16S
ATOM	19709	O4	U	A	943	232.008	118.476	-15.963	1.00	62.05	A16S
ATOM	19710	C5	U	A	943	232.533	119.616	-13.957	1.00	62.05	A16S
ATOM	19711	C2*	U	A	943	231.523	117.782	-9.872	1.00	46.17	A16S
ATOM	19712	O2*	U	A	943	230.719	117.574	-8.731	1.00	46.17	A16S
ATOM	19713	C3*	U	A	943	232.925	118.198	-9.491	1.00	46.17	A16S
ATOM	19714	O3*	U	A	943	233.390	117.448	-8.400	1.00	46.17	A16S
ATOM	19715	P	G	A	944	234.396	116.233	-8.669	1.00	56.02	A16S
ATOM	19716	O1P	G	A	944	234.627	115.538	-7.359	1.00	58.77	A16S
ATOM	19717	O2P	G	A	944	235.554	116.785	-9.449	1.00	58.77	A16S
ATOM	19718	O5*	G	A	944	233.565	115.278	-9.633	1.00	56.02	A16S
ATOM	19719	C5*	G	A	944	232.396	114.607	-9.166	1.00	56.02	A16S
ATOM	19720	C4*	G	A	944	231.902	113.646	-10.208	1.00	56.02	A16S
ATOM	19721	O4*	G	A	944	231.302	114.374	-11.301	1.00	56.02	A16S
ATOM	19722	C1*	G	A	944	231.617	113.743	-12.525	1.00	56.02	A16S
ATOM	19723	N9	G	A	944	232.437	114.677	-13.284	1.00	58.77	A16S
ATOM	19724	C4	G	A	944	232.653	114.705	-14.640	1.00	58.77	A16S
ATOM	19725	N3	G	A	944	232.129	113.863	-15.550	1.00	58.77	A16S
ATOM	19726	C2	G	A	944	232.523	114.161	-16.779	1.00	58.77	A16S
ATOM	19727	N2	G	A	944	232.098	113.444	-17.814	1.00	58.77	A16S
ATOM	19728	N1	G	A	944	233.364	115.189	-17.086	1.00	58.77	A16S
ATOM	19729	C6	G	A	944	233.921	116.062	-16.163	1.00	58.77	A16S
ATOM	19730	O6	G	A	944	234.690	116.958	-16.543	1.00	58.77	A16S
ATOM	19731	C5	G	A	944	233.500	115.767	-14.849	1.00	58.77	A16S
ATOM	19732	N7	G	A	944	233.803	116.398	-13.656	1.00	58.77	A16S
ATOM	19733	C8	G	A	944	233.153	115.719	-12.758	1.00	58.77	A16S
ATOM	19734	C2*	G	A	944	232.350	112.446	-12.184	1.00	56.02	A16S
ATOM	19735	O2*	G	A	944	231.392	111.416	-12.031	1.00	56.02	A16S
ATOM	19736	C3*	G	A	944	232.978	112.793	-10.845	1.00	56.02	A16S
ATOM	19737	O3*	G	A	944	233.242	111.650	-10.047	1.00	56.02	A16S
ATOM	19738	P	G	A	945	234.628	111.547	-9.233	1.00	54.74	A16S
ATOM	19739	O1P	G	A	945	234.366	110.712	-8.008	1.00	60.48	A16S
ATOM	19740	O2P	G	A	945	235.227	112.905	-9.088	1.00	60.48	A16S
ATOM	19741	O5*	G	A	945	235.573	110.696	-10.188	1.00	54.74	A16S
ATOM	19742	C5*	G	A	945	235.704	111.025	-11.580	1.00	54.74	A16S
ATOM	19743	C4*	G	A	945	237.028	110.536	-12.130	1.00	54.74	A16S
ATOM	19744	O4*	G	A	945	237.337	111.459	-13.206	1.00	54.74	A16S
ATOM	19745	C1*	G	A	945	238.633	111.982	-13.033	1.00	54.74	A16S
ATOM	19746	N9	G	A	945	238.491	113.395	-12.686	1.00	60.48	A16S
ATOM	19747	C4	G	A	945	239.464	114.212	-12.164	1.00	60.48	A16S
ATOM	19748	N3	G	A	945	240.729	113.845	-11.863	1.00	60.48	A16S
ATOM	19749	C2	G	A	945	241.437	114.852	-11.391	1.00	60.48	A16S
ATOM	19750	N2	G	A	945	242.714	114.645	-11.037	1.00	60.48	A16S
ATOM	19751	N1	G	A	945	240.942	116.132	-11.231	1.00	60.48	A16S
ATOM	19752	C6	G	A	945	239.645	116.532	-11.539	1.00	60.48	A16S
ATOM	19753	O6	G	A	945	239.306	117.705	-11.376	1.00	60.48	A16S
ATOM	19754	C5	G	A	945	238.871	115.452	-12.036	1.00	60.48	A16S
ATOM	19755	N7	G	A	945	237.549	115.409	-12.451	1.00	60.48	A16S
ATOM	19756	C8	G	A	945	237.368	114.172	-12.827	1.00	60.48	A16S
ATOM	19757	C2*	G	A	945	239.353	111.122	-11.985	1.00	54.74	A16S
ATOM	19758	O2*	G	A	945	240.082	110.080	-12.595	1.00	54.74	A16S
ATOM	19759	C3*	G	A	945	238.195	110.613	-11.145	1.00	54.74	A16S
ATOM	19760	O3*	G	A	945	238.506	109.326	-10.603	1.00	54.74	A16S
ATOM	19761	P	A	A	946	239.014	109.200	-9.079	1.00	51.39	A16S
ATOM	19762	O1P	A	A	946	239.537	107.838	-8.819	1.00	54.78	A16S
ATOM	19763	O2P	A	A	946	237.942	109.746	-8.189	1.00	54.78	A16S
ATOM	19764	O5*	A	A	946	240.252	110.199	-9.027	1.00	51.39	A16S
ATOM	19765	C5*	A	A	946	241.533	109.805	-9.521	1.00	51.39	A16S
ATOM	19766	C4*	A	A	946	242.624	110.676	-8.932	1.00	51.39	A16S
ATOM	19767	O4*	A	A	946	242.492	112.042	-9.396	1.00	51.39	A16S
ATOM	19768	C1*	A	A	946	243.000	112.921	-8.414	1.00	51.39	A16S
ATOM	19769	N9	A	A	946	241.989	113.942	-8.131	1.00	54.78	A16S
ATOM	19770	C4	A	A	946	242.191	115.153	-7.513	1.00	54.78	A16S
ATOM	19771	N3	A	A	946	243.330	115.616	-6.981	1.00	54.78	A16S
ATOM	19772	C2	A	A	946	243.159	116.853	-6.510	1.00	54.78	A16S
ATOM	19773	N1	A	A	946	242.063	117.620	-6.519	1.00	54.78	A16S
ATOM	19774	C6	A	A	946	240.935	117.119	-7.059	1.00	54.78	A16S
ATOM	19775	N6	A	A	946	239.844	117.880	-7.073	1.00	54.78	A16S
ATOM	19776	C5	A	A	946	240.981	115.818	-7.579	1.00	54.78	A16S
ATOM	19777	N7	A	A	946	240.018	115.023	-8.178	1.00	54.78	A16S
ATOM	19778	C8	A	A	946	240.662	113.919	-8.475	1.00	54.78	A16S
ATOM	19779	C2*	A	A	946	243.471	112.080	-7.227	1.00	51.39	A16S
ATOM	19780	O2*	A	A	946	244.851	111.854	-7.392	1.00	51.39	A16S
ATOM	19781	C3*	A	A	946	242.696	110.785	-7.420	1.00	51.39	A16S
ATOM	19782	O3*	A	A	946	243.408	109.683	-6.872	1.00	51.39	A16S



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ATOM	19783	P	G	A	947	242.917	109.020	-5.490	1.00	58.90	A16S
ATOM	19784	O1P	G	A	947	243.609	107.713	-5.289	1.00	66.06	A16S
ATOM	19785	O2P	G	A	947	241.425	109.052	-5.516	1.00	66.06	A16S
ATOM	19786	O5*	G	A	947	243.470	110.031	-4.386	1.00	58.90	A16S
ATOM	19787	C5*	G	A	947	244.890	110.130	-4.132	1.00	58.90	A16S
ATOM	19788	C4*	G	A	947	245.202	111.336	-3.282	1.00	58.90	A16S
ATOM	19789	O4*	G	A	947	244.938	112.555	-4.023	1.00	58.90	A16S
ATOM	19790	C1*	G	A	947	244.405	113.539	-3.152	1.00	58.90	A16S
ATOM	19791	N9	G	A	947	243.059	113.870	-3.608	1.00	66.06	A16S
ATOM	19792	C4	G	A	947	242.405	115.080	-3.479	1.00	66.06	A16S
ATOM	19793	N3	G	A	947	242.885	116.186	-2.876	1.00	66.06	A16S
ATOM	19794	C2	G	A	947	242.028	117.192	-2.941	1.00	66.06	A16S
ATOM	19795	N2	G	A	947	242.338	118.376	-2.405	1.00	66.06	A16S
ATOM	19796	N1	G	A	947	240.801	117.114	-3.540	1.00	66.06	A16S
ATOM	19797	C6	G	A	947	240.282	115.984	-4.157	1.00	66.06	A16S
ATOM	19798	O6	G	A	947	239.155	116.020	-4.667	1.00	66.06	A16S
ATOM	19799	C5	G	A	947	241.187	114.902	-4.101	1.00	66.06	A16S
ATOM	19800	N7	G	A	947	241.064	113.609	-4.587	1.00	66.06	A16S
ATOM	19801	C8	G	A	947	242.191	113.033	-4.268	1.00	66.06	A16S
ATOM	19802	C2*	G	A	947	244.408	112.954	-1.741	1.00	58.90	A16S
ATOM	19803	O2*	G	A	947	245.591	113.376	-1.089	1.00	58.90	A16S
ATOM	19804	C3*	G	A	947	244.367	111.458	-2.026	1.00	58.90	A16S
ATOM	19805	O3*	G	A	947	244.879	110.663	-0.971	1.00	58.90	A16S
ATOM	19806	P	C	A	948	243.861	110.067	0.123	1.00	65.19	A16S
ATOM	19807	O1P	C	A	948	244.633	109.296	1.141	1.00	69.79	A16S
ATOM	19808	O2P	C	A	948	242.752	109.387	-0.622	1.00	69.79	A16S
ATOM	19809	O5*	C	A	948	243.299	111.385	0.841	1.00	65.19	A16S
ATOM	19810	C5*	C	A	948	244.169	112.193	1.677	1.00	65.19	A16S
ATOM	19811	C4*	C	A	948	243.553	113.551	1.986	1.00	65.19	A16S
ATOM	19812	O4*	C	A	948	243.288	114.270	0.757	1.00	65.19	A16S
ATOM	19813	C1*	C	A	948	242.179	115.124	0.937	1.00	65.19	A16S
ATOM	19814	N1	C	A	948	241.138	114.773	-0.037	1.00	69.79	A16S
ATOM	19815	C6	C	A	948	241.092	113.533	-0.613	1.00	69.79	A16S
ATOM	19816	C2	C	A	948	240.164	115.727	-0.336	1.00	69.79	A16S
ATOM	19817	O2	C	A	948	240.260	116.864	0.164	1.00	69.79	A16S
ATOM	19818	N3	C	A	948	239.145	115.393	-1.156	1.00	69.79	A16S
ATOM	19819	C4	C	A	948	239.084	114.167	-1.678	1.00	69.79	A16S
ATOM	19820	N4	C	A	948	238.032	113.867	-2.441	1.00	69.79	A16S
ATOM	19821	C5	C	A	948	240.091	113.190	-1.430	1.00	69.79	A16S
ATOM	19822	C2*	C	A	948	241.669	114.952	2.367	1.00	65.19	A16S
ATOM	19823	O2*	C	A	948	242.158	116.006	3.150	1.00	65.19	A16S
ATOM	19824	C3*	C	A	948	242.239	113.593	2.752	1.00	65.19	A16S
ATOM	19825	O3*	C	A	948	242.447	113.508	4.163	1.00	65.19	A16S
ATOM	19826	P	A	A	949	241.237	113.040	5.125	1.00	63.71	A16S
ATOM	19827	O1P	A	A	949	241.800	112.880	6.497	1.00	73.49	A16S
ATOM	19828	O2P	A	A	949	240.538	111.880	4.491	1.00	73.49	A16S
ATOM	19829	O5*	A	A	949	240.258	114.310	5.141	1.00	63.71	A16S
ATOM	19830	C5*	A	A	949	240.701	115.555	5.723	1.00	63.71	A16S
ATOM	19831	C4*	A	A	949	239.614	116.614	5.693	1.00	63.71	A16S
ATOM	19832	O4*	A	A	949	239.398	117.111	4.347	1.00	63.71	A16S
ATOM	19833	C1*	A	A	949	238.038	117.469	4.191	1.00	63.71	A16S
ATOM	19834	N9	A	A	949	237.449	116.520	3.255	1.00	73.49	A16S
ATOM	19835	C4	A	A	949	236.305	116.688	2.514	1.00	73.49	A16S
ATOM	19836	N3	A	A	949	235.497	117.762	2.490	1.00	73.49	A16S
ATOM	19837	C2	A	A	949	234.481	117.557	1.663	1.00	73.49	A16S
ATOM	19838	N1	A	A	949	234.206	116.485	0.910	1.00	73.49	A16S
ATOM	19839	C6	A	A	949	235.042	115.426	0.959	1.00	73.49	A16S
ATOM	19840	N6	A	A	949	234.775	114.353	0.210	1.00	73.49	A16S
ATOM	19841	C5	A	A	949	236.148	115.515	1.800	1.00	73.49	A16S
ATOM	19842	N7	A	A	949	237.169	114.623	2.085	1.00	73.49	A16S
ATOM	19843	C8	A	A	949	237.914	115.262	2.948	1.00	73.49	A16S
ATOM	19844	C2*	A	A	949	237.361	117.305	5.550	1.00	63.71	A16S
ATOM	19845	O2*	A	A	949	237.376	118.531	6.254	1.00	63.71	A16S
ATOM	19846	C3*	A	A	949	238.234	116.239	6.194	1.00	63.71	A16S
ATOM	19847	O3*	A	A	949	238.136	116.268	7.606	1.00	63.71	A16S
ATOM	19848	P	U	A	950	237.281	115.129	8.357	1.00	63.63	A16S
ATOM	19849	O1P	U	A	950	237.399	115.393	9.816	1.00	55.89	A16S
ATOM	19850	O2P	U	A	950	237.717	113.807	7.820	1.00	55.89	A16S
ATOM	19851	O5*	U	A	950	235.777	115.414	7.886	1.00	63.63	A16S
ATOM	19852	C5*	U	A	950	235.148	116.689	8.163	1.00	63.63	A16S
ATOM	19853	C4*	U	A	950	233.859	116.858	7.374	1.00	63.63	A16S
ATOM	19854	O4*	U	A	950	234.138	116.913	5.948	1.00	63.63	A16S
ATOM	19855	C1*	U	A	950	233.044	116.373	5.223	1.00	63.63	A16S
ATOM	19856	N1	U	A	950	233.493	115.163	4.503	1.00	55.89	A16S
ATOM	19857	C6	U	A	950	234.575	114.422	4.923	1.00	55.89	A16S
ATOM	19858	C2	U	A	950	232.774	114.777	3.377	1.00	55.89	A16S
ATOM	19859	O2	U	A	950	231.802	115.388	2.966	1.00	55.89	A16S



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ATOM	19860	N3	U	A	950	233.227	113.640	2.751	1.00	55.89	A16S
ATOM	19861	C4	U	A	950	234.291	112.854	3.121	1.00	55.89	A16S
ATOM	19862	O4	U	A	950	234.550	111.837	2.465	1.00	55.89	A16S
ATOM	19863	C5	U	A	950	234.986	113.311	4.290	1.00	55.89	A16S
ATOM	19864	C2*	U	A	950	231.955	116.052	6.241	1.00	63.63	A16S
ATOM	19865	O2*	U	A	950	231.133	117.191	6.411	1.00	63.63	A16S
ATOM	19866	C3*	U	A	950	232.787	115.786	7.483	1.00	63.63	A16S
ATOM	19867	O3*	U	A	950	232.001	115.865	8.652	1.00	63.63	A16S
ATOM	19868	P	G	A	951	231.370	114.515	9.257	1.00	57.79	A16S
ATOM	19869	O1P	G	A	951	230.942	114.813	10.653	1.00	64.01	A16S
ATOM	19870	O2P	G	A	951	232.290	113.370	9.004	1.00	64.01	A16S
ATOM	19871	O5*	G	A	951	230.062	114.314	8.378	1.00	57.79	A16S
ATOM	19872	C5*	G	A	951	228.930	115.157	8.599	1.00	57.79	A16S
ATOM	19873	C4*	G	A	951	227.847	114.868	7.598	1.00	57.79	A16S
ATOM	19874	O4*	G	A	951	228.309	115.250	6.278	1.00	57.79	A16S
ATOM	19875	C1*	G	A	951	227.770	114.367	5.318	1.00	57.79	A16S
ATOM	19876	N9	G	A	951	228.866	113.571	4.761	1.00	64.01	A16S
ATOM	19877	C4	G	A	951	228.820	112.815	3.609	1.00	64.01	A16S
ATOM	19878	N3	G	A	951	227.780	112.734	2.760	1.00	64.01	A16S
ATOM	19879	C2	G	A	951	228.004	111.889	1.790	1.00	64.01	A16S
ATOM	19880	N2	G	A	951	227.063	111.681	0.884	1.00	64.01	A16S
ATOM	19881	N1	G	A	951	229.163	111.180	1.642	1.00	64.01	A16S
ATOM	19882	C6	G	A	951	230.255	111.245	2.496	1.00	64.01	A16S
ATOM	19883	O6	G	A	951	231.255	110.553	2.272	1.00	64.01	A16S
ATOM	19884	C5	G	A	951	230.025	112.151	3.558	1.00	64.01	A16S
ATOM	19885	N7	G	A	951	230.832	112.510	4.629	1.00	64.01	A16S
ATOM	19886	C8	G	A	951	230.113	113.367	5.305	1.00	64.01	A16S
ATOM	19887	C2*	G	A	951	226.796	113.446	6.066	1.00	57.79	A16S
ATOM	19888	O2*	G	A	951	225.504	114.016	6.154	1.00	57.79	A16S
ATOM	19889	C3*	G	A	951	227.412	113.421	7.444	1.00	57.79	A16S
ATOM	19890	O3*	G	A	951	226.457	112.996	8.390	1.00	57.79	A16S
ATOM	19891	P	U	A	952	226.397	111.444	8.795	1.00	66.15	A16S
ATOM	19892	O1P	U	A	952	225.418	111.293	9.902	1.00	71.65	A16S
ATOM	19893	O2P	U	A	952	227.781	110.950	8.980	1.00	71.65	A16S
ATOM	19894	O5*	U	A	952	225.771	110.755	7.505	1.00	66.15	A16S
ATOM	19895	C5*	U	A	952	224.438	111.095	7.080	1.00	66.15	A16S
ATOM	19896	C4*	U	A	952	224.110	110.458	5.745	1.00	66.15	A16S
ATOM	19897	O4*	U	A	952	225.048	110.924	4.732	1.00	66.15	A16S
ATOM	19898	C1*	U	A	952	225.207	109.921	3.742	1.00	66.15	A16S
ATOM	19899	N1	U	A	952	226.615	109.498	3.682	1.00	71.65	A16S
ATOM	19900	C6	U	A	952	227.510	109.771	4.684	1.00	71.65	A16S
ATOM	19901	C2	U	A	952	226.997	108.755	2.581	1.00	71.65	A16S
ATOM	19902	O2	U	A	952	226.259	108.560	1.626	1.00	71.65	A16S
ATOM	19903	N3	U	A	952	228.269	108.257	2.629	1.00	71.65	A16S
ATOM	19904	C4	U	A	952	229.189	108.440	3.620	1.00	71.65	A16S
ATOM	19905	O4	U	A	952	230.239	107.805	3.583	1.00	71.65	A16S
ATOM	19906	C5	U	A	952	228.752	109.280	4.690	1.00	71.65	A16S
ATOM	19907	C2*	U	A	952	224.330	108.730	4.141	1.00	66.15	A16S
ATOM	19908	O2*	U	A	952	223.096	108.764	3.439	1.00	66.15	A16S
ATOM	19909	C3*	U	A	952	224.182	108.943	5.641	1.00	66.15	A16S
ATOM	19910	O3*	U	A	952	223.040	108.268	6.137	1.00	66.15	A16S
ATOM	19911	P	G	A	953	223.118	106.680	6.382	1.00	68.41	A16S
ATOM	19912	O1P	G	A	953	221.846	106.187	6.980	1.00	67.09	A16S
ATOM	19913	O2P	G	A	953	224.409	106.384	7.052	1.00	67.09	A16S
ATOM	19914	O5*	G	A	953	223.213	106.065	4.919	1.00	68.41	A16S
ATOM	19915	C5*	G	A	953	222.063	106.015	4.057	1.00	68.41	A16S
ATOM	19916	C4*	G	A	953	222.323	105.065	2.919	1.00	68.41	A16S
ATOM	19917	O4*	G	A	953	223.496	105.536	2.207	1.00	68.41	A16S
ATOM	19918	C1*	G	A	953	224.293	104.430	1.818	1.00	68.41	A16S
ATOM	19919	N9	G	A	953	225.603	104.549	2.462	1.00	67.09	A16S
ATOM	19920	C4	G	A	953	226.751	103.847	2.138	1.00	67.09	A16S
ATOM	19921	N3	G	A	953	226.878	102.948	1.141	1.00	67.09	A16S
ATOM	19922	C2	G	A	953	228.096	102.439	1.092	1.00	67.09	A16S
ATOM	19923	N2	G	A	953	228.409	101.538	0.150	1.00	67.09	A16S
ATOM	19924	N1	G	A	953	229.099	102.775	1.956	1.00	67.09	A16S
ATOM	19925	C6	G	A	953	228.990	103.691	2.989	1.00	67.09	A16S
ATOM	19926	O6	G	A	953	229.955	103.906	3.715	1.00	67.09	A16S
ATOM	19927	C5	G	A	953	227.701	104.259	3.047	1.00	67.09	A16S
ATOM	19928	N7	G	A	953	227.180	105.219	3.906	1.00	67.09	A16S
ATOM	19929	C8	G	A	953	225.938	105.363	3.523	1.00	67.09	A16S
ATOM	19930	C2*	G	A	953	223.542	103.153	2.207	1.00	68.41	A16S
ATOM	19931	O2*	G	A	953	222.785	102.680	1.107	1.00	68.41	A16S
ATOM	19932	C3*	G	A	953	222.672	103.647	3.351	1.00	68.41	A16S
ATOM	19933	O3*	G	A	953	221.520	102.833	3.542	1.00	68.41	A16S
ATOM	19934	P	G	A	954	221.525	101.706	4.699	1.00	73.94	A16S
ATOM	19935	O1P	G	A	954	220.268	100.906	4.560	1.00	81.67	A16S
ATOM	19936	O2P	G	A	954	221.830	102.369	5.999	1.00	81.67	A16S



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ATOM	19937	O5*	G	A	954	222.746	100.754	4.310	1.00	73.94	A16S
ATOM	19938	C5*	G	A	954	222.733	100.032	3.064	1.00	73.94	A16S
ATOM	19939	C4*	G	A	954	224.107	99.508	2.728	1.00	73.94	A16S
ATOM	19940	O4*	G	A	954	225.046	100.603	2.631	1.00	73.94	A16S
ATOM	19941	C1*	G	A	954	226.336	100.149	2.990	1.00	73.94	A16S
ATOM	19942	N9	G	A	954	226.858	100.988	4.062	1.00	81.67	A16S
ATOM	19943	C4	G	A	954	228.156	101.007	4.500	1.00	81.67	A16S
ATOM	19944	N3	G	A	954	229.167	100.271	4.001	1.00	81.67	A16S
ATOM	19945	C2	G	A	954	230.300	100.507	4.628	1.00	81.67	A16S
ATOM	19946	N2	G	A	954	231.408	99.882	4.246	1.00	81.67	A16S
ATOM	19947	N1	G	A	954	230.430	101.378	5.676	1.00	81.67	A16S
ATOM	19948	C6	G	A	954	229.399	102.140	6.215	1.00	81.67	A16S
ATOM	19949	O6	G	A	954	229.617	102.883	7.180	1.00	81.67	A16S
ATOM	19950	C5	G	A	954	228.181	101.916	5.535	1.00	81.67	A16S
ATOM	19951	N7	G	A	954	226.926	102.473	5.732	1.00	81.67	A16S
ATOM	19952	C8	G	A	954	226.173	101.893	4.837	1.00	81.67	A16S
ATOM	19953	C2*	G	A	954	226.226	98.682	3.397	1.00	73.94	A16S
ATOM	19954	O2*	G	A	954	226.620	97.890	2.298	1.00	73.94	A16S
ATOM	19955	C3*	G	A	954	224.743	98.556	3.720	1.00	73.94	A16S
ATOM	19956	O3*	G	A	954	224.281	97.237	3.507	1.00	73.94	A16S
ATOM	19957	P	U	A	955	224.157	96.232	4.750	1.00	64.99	A16S
ATOM	19958	O1P	U	A	955	223.587	94.957	4.238	1.00	88.15	A16S
ATOM	19959	O2P	U	A	955	223.463	96.956	5.849	1.00	88.15	A16S
ATOM	19960	O5*	U	A	955	225.668	95.982	5.192	1.00	64.99	A16S
ATOM	19961	C5*	U	A	955	226.611	95.379	4.289	1.00	64.99	A16S
ATOM	19962	C4*	U	A	955	228.016	95.516	4.822	1.00	64.99	A16S
ATOM	19963	O4*	U	A	955	228.408	96.910	4.831	1.00	64.99	A16S
ATOM	19964	C1*	U	A	955	229.259	97.158	5.936	1.00	64.99	A16S
ATOM	19965	N1	U	A	955	228.661	98.210	6.776	1.00	88.15	A16S
ATOM	19966	C6	U	A	955	227.325	98.531	6.684	1.00	88.15	A16S
ATOM	19967	C2	U	A	955	229.491	98.874	7.673	1.00	88.15	A16S
ATOM	19968	O2	U	A	955	230.677	98.626	7.791	1.00	88.15	A16S
ATOM	19969	N3	U	A	955	228.874	99.841	8.425	1.00	88.15	A16S
ATOM	19970	C4	U	A	955	227.543	100.211	8.376	1.00	88.15	A16S
ATOM	19971	O4	U	A	955	227.142	101.140	9.088	1.00	88.15	A16S
ATOM	19972	C5	U	A	955	226.756	99.478	7.431	1.00	88.15	A16S
ATOM	19973	C2*	U	A	955	229.453	95.836	6.679	1.00	64.99	A16S
ATOM	19974	O2*	U	A	955	230.625	95.209	6.217	1.00	64.99	A16S
ATOM	19975	C3*	U	A	955	228.228	95.050	6.249	1.00	64.99	A16S
ATOM	19976	O3*	U	A	955	228.482	93.656	6.316	1.00	64.99	A16S
ATOM	19977	P	U	A	956	228.261	92.875	7.709	1.00	73.58	A16S
ATOM	19978	O1P	U	A	956	228.586	91.432	7.470	1.00	72.96	A16S
ATOM	19979	O2P	U	A	956	226.925	93.246	8.242	1.00	72.96	A16S
ATOM	19980	O5*	U	A	956	229.369	93.496	8.675	1.00	73.58	A16S
ATOM	19981	C5*	U	A	956	230.753	93.178	8.475	1.00	73.58	A16S
ATOM	19982	C4*	U	A	956	231.623	93.910	9.459	1.00	73.58	A16S
ATOM	19983	O4*	U	A	956	231.506	95.335	9.260	1.00	73.58	A16S
ATOM	19984	C1*	U	A	956	231.654	95.999	10.500	1.00	73.58	A16S
ATOM	19985	N1	U	A	956	230.427	96.756	10.768	1.00	72.96	A16S
ATOM	19986	C6	U	A	956	229.238	96.417	10.175	1.00	72.96	A16S
ATOM	19987	C2	U	A	956	230.513	97.831	11.629	1.00	72.96	A16S
ATOM	19988	O2	U	A	956	231.544	98.149	12.198	1.00	72.96	A16S
ATOM	19989	N3	U	A	956	229.345	98.522	11.804	1.00	72.96	A16S
ATOM	19990	C4	U	A	956	228.127	98.248	11.229	1.00	72.96	A16S
ATOM	19991	O4	U	A	956	227.168	98.989	11.460	1.00	72.96	A16S
ATOM	19992	C5	U	A	956	228.118	97.105	10.369	1.00	72.96	A16S
ATOM	19993	C2*	U	A	956	231.931	94.942	11.560	1.00	73.58	A16S
ATOM	19994	O2*	U	A	956	233.335	94.833	11.685	1.00	73.58	A16S
ATOM	19995	C3*	U	A	956	231.305	93.712	10.923	1.00	73.58	A16S
ATOM	19996	O3*	U	A	956	231.862	92.512	11.404	1.00	73.58	A16S
ATOM	19997	P	U	A	957	231.192	91.799	12.666	1.00	73.05	A16S
ATOM	19998	O1P	U	A	957	231.966	90.564	12.962	1.00	90.39	A16S
ATOM	19999	O2P	U	A	957	229.732	91.712	12.423	1.00	90.39	A16S
ATOM	20000	O5*	U	A	957	231.451	92.837	13.837	1.00	73.05	A16S
ATOM	20001	C5*	U	A	957	232.791	93.138	14.239	1.00	73.05	A16S
ATOM	20002	C4*	U	A	957	232.804	94.292	15.206	1.00	73.05	A16S
ATOM	20003	O4*	U	A	957	232.236	95.466	14.572	1.00	73.05	A16S
ATOM	20004	C1*	U	A	957	231.535	96.230	15.531	1.00	73.05	A16S
ATOM	20005	N1	U	A	957	230.132	96.315	15.112	1.00	90.39	A16S
ATOM	20006	C6	U	A	957	229.555	95.329	14.344	1.00	90.39	A16S
ATOM	20007	C2	U	A	957	229.405	97.415	15.526	1.00	90.39	A16S
ATOM	20008	O2	U	A	957	229.888	98.321	16.186	1.00	90.39	A16S
ATOM	20009	N3	U	A	957	228.089	97.418	15.137	1.00	90.39	A16S
ATOM	20010	C4	U	A	957	227.445	96.458	14.386	1.00	90.39	A16S
ATOM	20011	O4	U	A	957	226.238	96.574	14.165	1.00	90.39	A16S
ATOM	20012	C5	U	A	957	228.273	95.362	13.977	1.00	90.39	A16S
ATOM	20013	C2*	U	A	957	231.698	95.543	16.888	1.00	73.05	A16S



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ATOM	20014	O2*	U	A	957	232.787	96.154	17.551	1.00	73.05	A16S
ATOM	20015	C3*	U	A	957	231.987	94.105	16.472	1.00	73.05	A16S
ATOM	20016	O3*	U	A	957	232.727	93.367	17.438	1.00	73.05	A16S
ATOM	20017	P	A	A	958	231.979	92.269	18.339	1.00	90.74	A16S
ATOM	20018	O1P	A	A	958	232.988	91.735	19.287	1.00105.89		A16S
ATOM	20019	O2P	A	A	958	231.242	91.331	17.449	1.00105.89		A16S
ATOM	20020	O5*	A	A	958	230.934	93.143	19.165	1.00	90.74	A16S
ATOM	20021	C5*	A	A	958	229.949	92.530	20.019	1.00	90.74	A16S
ATOM	20022	C4*	A	A	958	229.486	93.512	21.071	1.00	90.74	A16S
ATOM	20023	O4*	A	A	958	230.551	93.752	22.018	1.00	90.74	A16S
ATOM	20024	C1*	A	A	958	230.495	95.088	22.467	1.00	90.74	A16S
ATOM	20025	N9	A	A	958	231.812	95.681	22.271	1.00105.89		A16S
ATOM	20026	C4	A	A	958	232.326	96.740	22.971	1.00105.89		A16S
ATOM	20027	N3	A	A	958	231.719	97.447	23.936	1.00105.89		A16S
ATOM	20028	C2	A	A	958	232.528	98.397	24.401	1.00105.89		A16S
ATOM	20029	N1	A	A	958	233.783	98.697	24.039	1.00105.89		A16S
ATOM	20030	C6	A	A	958	234.365	97.963	23.069	1.00105.89		A16S
ATOM	20031	N6	A	A	958	235.618	98.255	22.719	1.00105.89		A16S
ATOM	20032	C5	A	A	958	233.607	96.926	22.488	1.00105.89		A16S
ATOM	20033	N7	A	A	958	233.889	96.010	21.484	1.00105.89		A16S
ATOM	20034	C8	A	A	958	232.793	95.300	21.393	1.00105.89		A16S
ATOM	20035	C2*	A	A	958	229.337	95.796	21.757	1.00	90.74	A16S
ATOM	20036	O2*	A	A	958	228.241	95.871	22.644	1.00	90.74	A16S
ATOM	20037	C3*	A	A	958	229.093	94.885	20.554	1.00	90.74	A16S
ATOM	20038	O3*	A	A	958	227.725	94.856	20.161	1.00	90.74	A16S
ATOM	20039	P	A	A	959	227.311	95.242	18.658	1.00	73.24	A16S
ATOM	20040	O1P	A	A	959	225.997	94.598	18.382	1.00	92.70	A16S
ATOM	20041	O2P	A	A	959	228.469	94.971	17.760	1.00	92.70	A16S
ATOM	20042	O5*	A	A	959	227.075	96.811	18.735	1.00	73.24	A16S
ATOM	20043	C5*	A	A	959	226.087	97.353	19.623	1.00	73.24	A16S
ATOM	20044	C4*	A	A	959	226.460	98.757	20.020	1.00	73.24	A16S
ATOM	20045	O4*	A	A	959	227.683	98.712	20.796	1.00	73.24	A16S
ATOM	20046	C1*	A	A	959	228.461	99.861	20.520	1.00	73.24	A16S
ATOM	20047	N9	A	A	959	229.801	99.429	20.119	1.00	92.70	A16S
ATOM	20048	C4	A	A	959	230.985	99.834	20.685	1.00	92.70	A16S
ATOM	20049	N3	A	A	959	231.149	100.675	21.715	1.00	92.70	A16S
ATOM	20050	C2	A	A	959	232.432	100.829	21.988	1.00	92.70	A16S
ATOM	20051	N1	A	A	959	233.494	100.299	21.388	1.00	92.70	A16S
ATOM	20052	C6	A	A	959	233.297	99.463	20.351	1.00	92.70	A16S
ATOM	20053	N6	A	A	959	234.361	98.935	19.741	1.00	92.70	A16S
ATOM	20054	C5	A	A	959	231.980	99.199	19.973	1.00	92.70	A16S
ATOM	20055	N7	A	A	959	231.439	98.394	18.983	1.00	92.70	A16S
ATOM	20056	C8	A	A	959	230.146	98.563	19.113	1.00	92.70	A16S
ATOM	20057	C2*	A	A	959	227.724	100.709	19.473	1.00	73.24	A16S
ATOM	20058	O2*	A	A	959	227.119	101.835	20.084	1.00	73.24	A16S
ATOM	20059	C3*	A	A	959	226.753	99.696	18.860	1.00	73.24	A16S
ATOM	20060	O3*	A	A	959	225.554	100.302	18.347	1.00	73.24	A16S
ATOM	20061	P	U	A	960	224.855	99.718	17.009	1.00	71.66	A16S
ATOM	20062	O1P	U	A	960	223.507	100.341	16.907	1.00	77.76	A16S
ATOM	20063	O2P	U	A	960	224.980	98.233	16.972	1.00	77.76	A16S
ATOM	20064	O5*	U	A	960	225.718	100.299	15.807	1.00	71.66	A16S
ATOM	20065	C5*	U	A	960	227.133	100.430	15.921	1.00	71.66	A16S
ATOM	20066	C4*	U	A	960	227.464	101.799	16.443	1.00	71.66	A16S
ATOM	20067	O4*	U	A	960	228.819	101.808	16.935	1.00	71.66	A16S
ATOM	20068	C1*	U	A	960	229.650	102.549	16.071	1.00	71.66	A16S
ATOM	20069	N1	U	A	960	230.707	101.618	15.621	1.00	77.76	A16S
ATOM	20070	C6	U	A	960	231.953	101.638	16.211	1.00	77.76	A16S
ATOM	20071	C2	U	A	960	230.422	100.695	14.614	1.00	77.76	A16S
ATOM	20072	O2	U	A	960	229.353	100.645	14.037	1.00	77.76	A16S
ATOM	20073	N3	U	A	960	231.446	99.826	14.312	1.00	77.76	A16S
ATOM	20074	C4	U	A	960	232.696	99.776	14.888	1.00	77.76	A16S
ATOM	20075	O4	U	A	960	233.459	98.855	14.599	1.00	77.76	A16S
ATOM	20076	C5	U	A	960	232.927	100.772	15.888	1.00	77.76	A16S
ATOM	20077	C2*	U	A	960	228.783	103.186	14.972	1.00	71.66	A16S
ATOM	20078	O2*	U	A	960	229.093	104.540	14.694	1.00	71.66	A16S
ATOM	20079	C3*	U	A	960	227.346	102.943	15.456	1.00	71.66	A16S
ATOM	20080	O3*	U	A	960	226.505	104.011	15.961	1.00	71.66	A16S
ATOM	20081	P	U	A	961	227.049	105.109	17.015	1.00	84.71	A16S
ATOM	20082	O1P	U	A	961	227.345	106.378	16.291	1.00	70.24	A16S
ATOM	20083	O2P	U	A	961	228.084	104.499	17.897	1.00	70.24	A16S
ATOM	20084	O5*	U	A	961	225.759	105.356	17.916	1.00	84.71	A16S
ATOM	20085	C5*	U	A	961	225.151	104.256	18.627	1.00	84.71	A16S
ATOM	20086	C4*	U	A	961	223.834	104.675	19.232	1.00	84.71	A16S
ATOM	20087	O4*	U	A	961	224.039	105.849	20.068	1.00	84.71	A16S
ATOM	20088	C1*	U	A	961	222.891	106.688	20.015	1.00	84.71	A16S
ATOM	20089	N1	U	A	961	223.266	107.971	19.405	1.00	70.24	A16S
ATOM	20090	C6	U	A	961	224.391	108.087	18.628	1.00	70.24	A16S



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ATOM	20091	C2	U	A	961	222.436	109.059	19.621	1.00	70.24	A16S
ATOM	20092	O2	U	A	961	221.421	108.998	20.297	1.00	70.24	A16S
ATOM	20093	N3	U	A	961	222.835	110.222	19.007	1.00	70.24	A16S
ATOM	20094	C4	U	A	961	223.953	110.402	18.216	1.00	70.24	A16S
ATOM	20095	O4	U	A	961	224.227	111.526	17.791	1.00	70.24	A16S
ATOM	20096	C5	U	A	961	224.748	109.230	18.038	1.00	70.24	A16S
ATOM	20097	C2*	U	A	961	221.865	105.992	19.130	1.00	84.71	A16S
ATOM	20098	O2*	U	A	961	220.952	105.247	19.919	1.00	84.71	A16S
ATOM	20099	C3*	U	A	961	222.761	105.124	18.260	1.00	84.71	A16S
ATOM	20100	O3*	U	A	961	222.037	104.074	17.657	1.00	84.71	A16S
ATOM	20101	P	C	A	962	221.379	104.319	16.209	1.00	66.79	A16S
ATOM	20102	O1P	C	A	962	220.512	103.144	15.902	1.00	78.18	A16S
ATOM	20103	O2P	C	A	962	222.484	104.683	15.282	1.00	78.18	A16S
ATOM	20104	O5*	C	A	962	220.477	105.627	16.386	1.00	66.79	A16S
ATOM	20105	C5*	C	A	962	219.419	105.652	17.344	1.00	66.79	A16S
ATOM	20106	C4*	C	A	962	218.732	106.994	17.363	1.00	66.79	A16S
ATOM	20107	O4*	C	A	962	219.639	108.056	17.758	1.00	66.79	A16S
ATOM	20108	C1*	C	A	962	219.153	109.293	17.251	1.00	66.79	A16S
ATOM	20109	N1	C	A	962	220.166	109.933	16.400	1.00	78.18	A16S
ATOM	20110	C6	C	A	962	221.270	109.260	15.958	1.00	78.18	A16S
ATOM	20111	C2	C	A	962	219.952	111.266	16.019	1.00	78.18	A16S
ATOM	20112	O2	C	A	962	218.954	111.857	16.449	1.00	78.18	A16S
ATOM	20113	N3	C	A	962	220.824	111.870	15.197	1.00	78.18	A16S
ATOM	20114	C4	C	A	962	221.886	111.201	14.756	1.00	78.18	A16S
ATOM	20115	N4	C	A	962	222.714	111.837	13.934	1.00	78.18	A16S
ATOM	20116	C5	C	A	962	222.145	109.848	15.139	1.00	78.18	A16S
ATOM	20117	C2*	C	A	962	217.940	108.988	16.378	1.00	66.79	A16S
ATOM	20118	O2*	C	A	962	216.753	109.286	17.090	1.00	66.79	A16S
ATOM	20119	C3*	C	A	962	218.157	107.513	16.064	1.00	66.79	A16S
ATOM	20120	O3*	C	A	962	216.963	106.872	15.685	1.00	66.79	A16S
ATOM	20121	P	G	A	963	216.717	106.545	14.135	1.00	60.68	A16S
ATOM	20122	O1P	G	A	963	215.629	105.525	14.140	1.00	61.77	A16S
ATOM	20123	O2P	G	A	963	218.020	106.227	13.485	1.00	61.77	A16S
ATOM	20124	O5*	G	A	963	216.201	107.923	13.523	1.00	60.68	A16S
ATOM	20125	C5*	G	A	963	214.989	108.499	13.989	1.00	60.68	A16S
ATOM	20126	C4*	G	A	963	214.977	109.976	13.728	1.00	60.68	A16S
ATOM	20127	O4*	G	A	963	216.188	110.551	14.278	1.00	60.68	A16S
ATOM	20128	C1*	G	A	963	216.541	111.712	13.543	1.00	60.68	A16S
ATOM	20129	N9	G	A	963	217.879	111.542	12.979	1.00	61.77	A16S
ATOM	20130	C4	G	A	963	218.541	112.462	12.203	1.00	61.77	A16S
ATOM	20131	N3	G	A	963	218.089	113.687	11.881	1.00	61.77	A16S
ATOM	20132	C2	G	A	963	218.925	114.328	11.087	1.00	61.77	A16S
ATOM	20133	N2	G	A	963	218.626	115.566	10.682	1.00	61.77	A16S
ATOM	20134	N1	G	A	963	220.111	113.803	10.633	1.00	61.77	A16S
ATOM	20135	C6	G	A	963	220.592	112.539	10.943	1.00	61.77	A16S
ATOM	20136	O6	G	A	963	221.650	112.153	10.455	1.00	61.77	A16S
ATOM	20137	C5	G	A	963	219.712	111.846	11.817	1.00	61.77	A16S
ATOM	20138	N7	G	A	963	219.810	110.578	12.380	1.00	61.77	A16S
ATOM	20139	C8	G	A	963	218.705	110.441	13.065	1.00	61.77	A16S
ATOM	20140	C2*	G	A	963	215.495	111.884	12.438	1.00	60.68	A16S
ATOM	20141	O2*	G	A	963	214.503	112.784	12.892	1.00	60.68	A16S
ATOM	20142	C3*	G	A	963	214.960	110.463	12.285	1.00	60.68	A16S
ATOM	20143	O3*	G	A	963	213.641	110.477	11.727	1.00	60.68	A16S
ATOM	20144	P	A	A	964	213.426	110.238	10.141	1.00	66.69	A16S
ATOM	20145	O1P	A	A	964	211.960	110.305	9.860	1.00	55.64	A16S
ATOM	20146	O2P	A	A	964	214.188	109.020	9.750	1.00	55.64	A16S
ATOM	20147	O5*	A	A	964	214.115	111.492	9.442	1.00	66.69	A16S
ATOM	20148	C5*	A	A	964	213.590	112.811	9.604	1.00	66.69	A16S
ATOM	20149	C4*	A	A	964	214.420	113.791	8.812	1.00	66.69	A16S
ATOM	20150	O4*	A	A	964	215.775	113.784	9.327	1.00	66.69	A16S
ATOM	20151	C1*	A	A	964	216.701	113.852	8.260	1.00	66.69	A16S
ATOM	20152	N9	A	A	964	217.473	112.608	8.280	1.00	55.64	A16S
ATOM	20153	C4	A	A	964	218.580	112.302	7.530	1.00	55.64	A16S
ATOM	20154	N3	A	A	964	219.188	113.078	6.615	1.00	55.64	A16S
ATOM	20155	C2	A	A	964	220.241	112.447	6.099	1.00	55.64	A16S
ATOM	20156	N1	A	A	964	220.719	111.222	6.378	1.00	55.64	A16S
ATOM	20157	C6	A	A	964	220.080	110.477	7.306	1.00	55.64	A16S
ATOM	20158	N6	A	A	964	220.557	109.269	7.601	1.00	55.64	A16S
ATOM	20159	C5	A	A	964	218.953	111.023	7.916	1.00	55.64	A16S
ATOM	20160	N7	A	A	964	218.094	110.529	8.882	1.00	55.64	A16S
ATOM	20161	C8	A	A	964	217.238	111.501	9.064	1.00	55.64	A16S
ATOM	20162	C2*	A	A	964	215.904	114.074	6.972	1.00	66.69	A16S
ATOM	20163	O2*	A	A	964	215.821	115.463	6.709	1.00	66.69	A16S
ATOM	20164	C3*	A	A	964	214.558	113.456	7.337	1.00	66.69	A16S
ATOM	20165	O3*	A	A	964	213.460	113.983	6.595	1.00	66.69	A16S
ATOM	20166	P	A	A	965	212.465	112.975	5.835	1.00	63.75	A16S
ATOM	20167	O1P	A	A	965	211.270	113.719	5.360	1.00	70.51	A16S



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ATOM	20168	O2P	A	A	965	212.286	111.775	6.710	1.00	70.51	A16S
ATOM	20169	O5*	A	A	965	213.321	112.536	4.569	1.00	63.75	A16S
ATOM	20170	C5*	A	A	965	213.366	113.331	3.361	1.00	63.75	A16S
ATOM	20171	C4*	A	A	965	213.921	112.492	2.242	1.00	63.75	A16S
ATOM	20172	O4*	A	A	965	215.249	112.089	2.631	1.00	63.75	A16S
ATOM	20173	C1*	A	A	965	215.475	110.754	2.251	1.00	63.75	A16S
ATOM	20174	N9	A	A	965	216.101	110.072	3.370	1.00	70.51	A16S
ATOM	20175	C4	A	A	965	217.246	109.323	3.312	1.00	70.51	A16S
ATOM	20176	N3	A	A	965	217.991	109.059	2.230	1.00	70.51	A16S
ATOM	20177	C2	A	A	965	219.023	108.292	2.557	1.00	70.51	A16S
ATOM	20178	N1	A	A	965	219.363	107.795	3.752	1.00	70.51	A16S
ATOM	20179	C6	A	A	965	218.578	108.076	4.813	1.00	70.51	A16S
ATOM	20180	N6	A	A	965	218.887	107.560	6.001	1.00	70.51	A16S
ATOM	20181	C5	A	A	965	217.472	108.886	4.602	1.00	70.51	A16S
ATOM	20182	N7	A	A	965	216.492	109.355	5.460	1.00	70.51	A16S
ATOM	20183	C8	A	A	965	215.701	110.050	4.679	1.00	70.51	A16S
ATOM	20184	C2*	A	A	965	214.183	110.138	1.706	1.00	63.75	A16S
ATOM	20185	O2*	A	A	965	214.337	109.823	0.343	1.00	63.75	A16S
ATOM	20186	C3*	A	A	965	213.143	111.199	2.051	1.00	63.75	A16S
ATOM	20187	O3*	A	A	965	212.042	111.423	1.154	1.00	63.75	A16S
ATOM	20188	P	G	A	966	212.248	111.512	-0.461	1.00	52.88	A16S
ATOM	20189	O1P	G	A	966	212.462	110.130	-1.002	1.00	75.14	A16S
ATOM	20190	O2P	G	A	966	211.107	112.316	-0.971	1.00	75.14	A16S
ATOM	20191	O5*	G	A	966	213.514	112.442	-0.731	1.00	52.88	A16S
ATOM	20192	C5*	G	A	966	214.586	111.976	-1.567	1.00	52.88	A16S
ATOM	20193	C4*	G	A	966	214.654	112.754	-2.860	1.00	52.88	A16S
ATOM	20194	O4*	G	A	966	213.611	112.364	-3.789	1.00	52.88	A16S
ATOM	20195	C1*	G	A	966	213.455	113.396	-4.746	1.00	52.88	A16S
ATOM	20196	N9	G	A	966	212.043	113.604	-5.043	1.00	75.14	A16S
ATOM	20197	C4	G	A	966	211.543	114.406	-6.045	1.00	75.14	A16S
ATOM	20198	N3	G	A	966	212.272	115.137	-6.913	1.00	75.14	A16S
ATOM	20199	C2	G	A	966	211.509	115.803	-7.762	1.00	75.14	A16S
ATOM	20200	N2	G	A	966	212.068	116.585	-8.694	1.00	75.14	A16S
ATOM	20201	N1	G	A	966	210.143	115.754	-7.761	1.00	75.14	A16S
ATOM	20202	C6	G	A	966	209.372	115.013	-6.875	1.00	75.14	A16S
ATOM	20203	O6	G	A	966	208.137	115.047	-6.956	1.00	75.14	A16S
ATOM	20204	C5	G	A	966	210.177	114.292	-5.958	1.00	75.14	A16S
ATOM	20205	N7	G	A	966	209.820	113.443	-4.921	1.00	75.14	A16S
ATOM	20206	C8	G	A	966	210.959	113.060	-4.408	1.00	75.14	A16S
ATOM	20207	C2*	G	A	966	214.135	114.649	-4.197	1.00	52.88	A16S
ATOM	20208	O2*	G	A	966	215.282	114.900	-4.970	1.00	52.88	A16S
ATOM	20209	C3*	G	A	966	214.456	114.247	-2.757	1.00	52.88	A16S
ATOM	20210	O3*	G	A	966	215.608	114.909	-2.291	1.00	52.88	A16S
ATOM	20211	P	C	A	967	215.459	116.394	-1.722	1.00	51.59	A16S
ATOM	20212	O1P	C	A	967	216.806	116.864	-1.289	1.00	73.38	A16S
ATOM	20213	O2P	C	A	967	214.330	116.376	-0.755	1.00	73.38	A16S
ATOM	20214	O5*	C	A	967	215.018	117.257	-2.981	1.00	51.59	A16S
ATOM	20215	C5*	C	A	967	215.986	117.623	-3.972	1.00	51.59	A16S
ATOM	20216	C4*	C	A	967	215.364	118.533	-4.987	1.00	51.59	A16S
ATOM	20217	O4*	C	A	967	214.302	117.826	-5.665	1.00	51.59	A16S
ATOM	20218	C1*	C	A	967	213.247	118.718	-5.962	1.00	51.59	A16S
ATOM	20219	N1	C	A	967	212.018	118.173	-5.369	1.00	73.38	A16S
ATOM	20220	C6	C	A	967	212.082	117.371	-4.260	1.00	73.38	A16S
ATOM	20221	C2	C	A	967	210.776	118.491	-5.947	1.00	73.38	A16S
ATOM	20222	O2	C	A	967	210.745	119.197	-6.976	1.00	73.38	A16S
ATOM	20223	N3	C	A	967	209.648	118.013	-5.370	1.00	73.38	A16S
ATOM	20224	C4	C	A	967	209.730	117.240	-4.276	1.00	73.38	A16S
ATOM	20225	N4	C	A	967	208.599	116.797	-3.732	1.00	73.38	A16S
ATOM	20226	C5	C	A	967	210.977	116.889	-3.690	1.00	73.38	A16S
ATOM	20227	C2*	C	A	967	213.645	120.106	-5.447	1.00	51.59	A16S
ATOM	20228	O2*	C	A	967	214.170	120.861	-6.516	1.00	51.59	A16S
ATOM	20229	C3*	C	A	967	214.715	119.773	-4.414	1.00	51.59	A16S
ATOM	20230	O3*	C	A	967	215.693	120.796	-4.315	1.00	51.59	A16S
ATOM	20231	P	A	A	968	215.504	121.974	-3.243	1.00	68.82	A16S
ATOM	20232	O1P	A	A	968	214.261	122.712	-3.594	1.00	74.98	A16S
ATOM	20233	O2P	A	A	968	216.786	122.716	-3.127	1.00	74.98	A16S
ATOM	20234	O5*	A	A	968	215.238	121.185	-1.884	1.00	68.82	A16S
ATOM	20235	C5*	A	A	968	215.302	121.846	-0.604	1.00	68.82	A16S
ATOM	20236	C4*	A	A	968	214.202	121.340	0.299	1.00	68.82	A16S
ATOM	20237	O4*	A	A	968	212.934	121.747	-0.256	1.00	68.82	A16S
ATOM	20238	C1*	A	A	968	212.111	120.620	-0.440	1.00	68.82	A16S
ATOM	20239	N9	A	A	968	211.343	120.833	-1.655	1.00	74.98	A16S
ATOM	20240	C4	A	A	968	210.076	120.377	-1.909	1.00	74.98	A16S
ATOM	20241	N3	A	A	968	209.314	119.601	-1.120	1.00	74.98	A16S
ATOM	20242	C2	A	A	968	208.125	119.397	-1.679	1.00	74.98	A16S
ATOM	20243	N1	A	A	968	207.653	119.848	-2.850	1.00	74.98	A16S
ATOM	20244	C6	A	A	968	208.459	120.620	-3.617	1.00	74.98	A16S



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ATOM	20245	N6	A	A	968	208.009	121.073	-4.786	1.00	74.98	A16S
ATOM	20246	C5	A	A	968	209.731	120.905	-3.139	1.00	74.98	A16S
ATOM	20247	N7	A	A	968	210.773	121.650	-3.667	1.00	74.98	A16S
ATOM	20248	C8	A	A	968	211.708	121.565	-2.756	1.00	74.98	A16S
ATOM	20249	C2*	A	A	968	213.032	119.404	-0.481	1.00	68.82	A16S
ATOM	20250	O2*	A	A	968	212.357	118.247	-0.018	1.00	68.82	A16S
ATOM	20251	C3*	A	A	968	214.128	119.828	0.484	1.00	68.82	A16S
ATOM	20252	O3*	A	A	968	213.667	119.537	1.785	1.00	68.82	A16S
ATOM	20253	P	A	A	969	214.716	119.387	2.974	1.00	59.23	A16S
ATOM	20254	O1P	A	A	969	214.093	118.544	4.031	1.00	59.93	A16S
ATOM	20255	O2P	A	A	969	215.179	120.763	3.302	1.00	59.93	A16S
ATOM	20256	O5*	A	A	969	215.926	118.566	2.332	1.00	59.23	A16S
ATOM	20257	C5*	A	A	969	215.830	117.147	2.138	1.00	59.23	A16S
ATOM	20258	C4*	A	A	969	216.650	116.422	3.177	1.00	59.23	A16S
ATOM	20259	O4*	A	A	969	216.307	115.016	3.134	1.00	59.23	A16S
ATOM	20260	C1*	A	A	969	217.473	114.230	3.306	1.00	59.23	A16S
ATOM	20261	N9	A	A	969	217.749	113.566	2.032	1.00	59.93	A16S
ATOM	20262	C4	A	A	969	218.662	112.565	1.814	1.00	59.93	A16S
ATOM	20263	N3	A	A	969	219.453	111.975	2.722	1.00	59.93	A16S
ATOM	20264	C2	A	A	969	220.234	111.075	2.143	1.00	59.93	A16S
ATOM	20265	N1	A	A	969	220.306	110.719	0.858	1.00	59.93	A16S
ATOM	20266	C6	A	A	969	219.490	111.328	-0.025	1.00	59.93	A16S
ATOM	20267	N6	A	A	969	219.557	110.975	-1.308	1.00	59.93	A16S
ATOM	20268	C5	A	A	969	218.618	112.304	0.461	1.00	59.93	A16S
ATOM	20269	N7	A	A	969	217.675	113.106	-0.166	1.00	59.93	A16S
ATOM	20270	C8	A	A	969	217.183	113.829	0.806	1.00	59.93	A16S
ATOM	20271	C2*	A	A	969	218.609	115.182	3.673	1.00	59.23	A16S
ATOM	20272	O2*	A	A	969	218.690	115.302	5.082	1.00	59.23	A16S
ATOM	20273	C3*	A	A	969	218.157	116.458	2.981	1.00	59.23	A16S
ATOM	20274	O3*	A	A	969	218.762	117.619	3.524	1.00	59.23	A16S
ATOM	20275	P	C	A	970	220.106	118.197	2.849	1.00	49.13	A16S
ATOM	20276	O1P	C	A	970	220.655	119.264	3.738	1.00	76.39	A16S
ATOM	20277	O2P	C	A	970	219.831	118.523	1.409	1.00	76.39	A16S
ATOM	20278	O5*	C	A	970	221.093	116.948	2.941	1.00	49.13	A16S
ATOM	20279	C5*	C	A	970	221.506	116.445	4.226	1.00	49.13	A16S
ATOM	20280	C4*	C	A	970	222.617	115.450	4.069	1.00	49.13	A16S
ATOM	20281	O4*	C	A	970	222.126	114.305	3.343	1.00	49.13	A16S
ATOM	20282	C1*	C	A	970	223.146	113.790	2.512	1.00	49.13	A16S
ATOM	20283	N1	C	A	970	222.674	113.795	1.116	1.00	76.39	A16S
ATOM	20284	C6	C	A	970	222.100	114.905	0.558	1.00	76.39	A16S
ATOM	20285	C2	C	A	970	222.830	112.637	0.369	1.00	76.39	A16S
ATOM	20286	O2	C	A	970	223.337	111.641	0.911	1.00	76.39	A16S
ATOM	20287	N3	C	A	970	222.421	112.622	-0.921	1.00	76.39	A16S
ATOM	20288	C4	C	A	970	221.863	113.706	-1.458	1.00	76.39	A16S
ATOM	20289	N4	C	A	970	221.473	113.643	-2.734	1.00	76.39	A16S
ATOM	20290	C5	C	A	970	221.681	114.902	-0.712	1.00	76.39	A16S
ATOM	20291	C2*	C	A	970	224.390	114.641	2.724	1.00	49.13	A16S
ATOM	20292	O2*	C	A	970	225.195	114.019	3.691	1.00	49.13	A16S
ATOM	20293	C3*	C	A	970	223.787	115.929	3.245	1.00	49.13	A16S
ATOM	20294	O3*	C	A	970	224.712	116.663	4.000	1.00	49.13	A16S
ATOM	20295	P	G	A	971	225.366	117.965	3.348	1.00	58.80	A16S
ATOM	20296	O1P	G	A	971	224.499	119.121	3.715	1.00	92.39	A16S
ATOM	20297	O2P	G	A	971	225.602	117.652	1.905	1.00	92.39	A16S
ATOM	20298	O5*	G	A	971	226.786	118.095	4.072	1.00	58.80	A16S
ATOM	20299	C5*	G	A	971	226.899	118.219	5.507	1.00	58.80	A16S
ATOM	20300	C4*	G	A	971	227.583	119.524	5.878	1.00	58.80	A16S
ATOM	20301	O4*	G	A	971	229.034	119.427	5.825	1.00	58.80	A16S
ATOM	20302	C1*	G	A	971	229.526	120.666	5.387	1.00	58.80	A16S
ATOM	20303	N9	G	A	971	230.915	120.543	4.969	1.00	92.39	A16S
ATOM	20304	C4	G	A	971	231.975	120.388	5.812	1.00	92.39	A16S
ATOM	20305	N3	G	A	971	231.897	120.259	7.146	1.00	92.39	A16S
ATOM	20306	C2	G	A	971	233.085	120.157	7.700	1.00	92.39	A16S
ATOM	20307	N2	G	A	971	233.183	120.018	9.030	1.00	92.39	A16S
ATOM	20308	N1	G	A	971	234.264	120.184	6.996	1.00	92.39	A16S
ATOM	20309	C6	G	A	971	234.369	120.322	5.618	1.00	92.39	A16S
ATOM	20310	O6	G	A	971	235.486	120.350	5.083	1.00	92.39	A16S
ATOM	20311	C5	G	A	971	233.092	120.423	5.011	1.00	92.39	A16S
ATOM	20312	N7	G	A	971	232.737	120.562	3.678	1.00	92.39	A16S
ATOM	20313	C8	G	A	971	231.434	120.616	3.699	1.00	92.39	A16S
ATOM	20314	C2*	G	A	971	228.510	121.115	4.347	1.00	58.80	A16S
ATOM	20315	O2*	G	A	971	228.679	122.489	4.047	1.00	58.80	A16S
ATOM	20316	C3*	G	A	971	227.209	120.772	5.070	1.00	58.80	A16S
ATOM	20317	O3*	G	A	971	226.885	121.853	5.939	1.00	58.80	A16S
ATOM	20318	P	C	A	972	225.554	122.722	5.670	1.00	59.03	A16S
ATOM	20319	O1P	C	A	972	225.211	122.592	4.216	1.00	60.69	A16S
ATOM	20320	O2P	C	A	972	225.750	124.076	6.227	1.00	60.69	A16S
ATOM	20321	O5*	C	A	972	224.450	122.003	6.578	1.00	59.03	A16S



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ATOM	20322	C5*	C	A	972	223.973	120.676	6.282	1.00	59.03	A16S
ATOM	20323	C4*	C	A	972	222.574	120.490	6.829	1.00	59.03	A16S
ATOM	20324	O4*	C	A	972	222.026	119.243	6.326	1.00	59.03	A16S
ATOM	20325	C1*	C	A	972	221.201	118.648	7.311	1.00	59.03	A16S
ATOM	20326	N1	C	A	972	221.822	117.391	7.736	1.00	60.69	A16S
ATOM	20327	C6	C	A	972	223.156	117.170	7.553	1.00	60.69	A16S
ATOM	20328	C2	C	A	972	221.027	116.426	8.344	1.00	60.69	A16S
ATOM	20329	O2	C	A	972	219.818	116.656	8.487	1.00	60.69	A16S
ATOM	20330	N3	C	A	972	221.588	115.269	8.761	1.00	60.69	A16S
ATOM	20331	C4	C	A	972	222.895	115.065	8.582	1.00	60.69	A16S
ATOM	20332	N4	C	A	972	223.417	113.909	9.008	1.00	60.69	A16S
ATOM	20333	C5	C	A	972	223.729	116.035	7.958	1.00	60.69	A16S
ATOM	20334	C2*	C	A	972	221.118	119.615	8.483	1.00	59.03	A16S
ATOM	20335	O2*	C	A	972	220.009	120.468	8.286	1.00	59.03	A16S
ATOM	20336	C3*	C	A	972	222.434	120.360	8.341	1.00	59.03	A16S
ATOM	20337	O3*	C	A	972	222.417	121.594	9.036	1.00	59.03	A16S
ATOM	20338	P	G	A	973	223.024	121.661	10.528	1.00	71.16	A16S
ATOM	20339	O1P	G	A	973	223.260	123.120	10.743	1.00	57.69	A16S
ATOM	20340	O2P	G	A	973	224.163	120.701	10.686	1.00	57.69	A16S
ATOM	20341	O5*	G	A	973	221.858	121.089	11.463	1.00	71.16	A16S
ATOM	20342	C5*	G	A	973	220.652	121.845	11.717	1.00	71.16	A16S
ATOM	20343	C4*	G	A	973	219.926	121.298	12.929	1.00	71.16	A16S
ATOM	20344	O4*	G	A	973	219.328	120.016	12.609	1.00	71.16	A16S
ATOM	20345	C1*	G	A	973	219.468	119.130	13.705	1.00	71.16	A16S
ATOM	20346	N9	G	A	973	220.410	118.090	13.304	1.00	57.69	A16S
ATOM	20347	C4	G	A	973	220.411	116.750	13.665	1.00	57.69	A16S
ATOM	20348	N3	G	A	973	219.488	116.115	14.427	1.00	57.69	A16S
ATOM	20349	C2	G	A	973	219.776	114.829	14.570	1.00	57.69	A16S
ATOM	20350	N2	G	A	973	218.964	114.030	15.232	1.00	57.69	A16S
ATOM	20351	N1	G	A	973	220.883	114.233	14.053	1.00	57.69	A16S
ATOM	20352	C6	G	A	973	221.850	114.872	13.291	1.00	57.69	A16S
ATOM	20353	O6	G	A	973	222.834	114.250	12.898	1.00	57.69	A16S
ATOM	20354	C5	G	A	973	221.544	116.224	13.085	1.00	57.69	A16S
ATOM	20355	N7	G	A	973	222.222	117.189	12.352	1.00	57.69	A16S
ATOM	20356	C8	G	A	973	221.516	118.273	12.504	1.00	57.69	A16S
ATOM	20357	C2*	G	A	973	220.039	119.937	14.873	1.00	71.16	A16S
ATOM	20358	O2*	G	A	973	218.971	120.397	15.660	1.00	71.16	A16S
ATOM	20359	C3*	G	A	973	220.801	121.047	14.148	1.00	71.16	A16S
ATOM	20360	O3*	G	A	973	221.006	122.266	14.893	1.00	71.16	A16S
ATOM	20361	P	A	A	974	221.693	122.229	16.362	1.00	68.98	A16S
ATOM	20362	O1P	A	A	974	221.803	120.797	16.795	1.00	61.85	A16S
ATOM	20363	O2P	A	A	974	220.897	123.194	17.178	1.00	61.85	A16S
ATOM	20364	O5*	A	A	974	223.166	122.842	16.216	1.00	68.98	A16S
ATOM	20365	C5*	A	A	974	223.913	122.702	14.998	1.00	68.98	A16S
ATOM	20366	C4*	A	A	974	225.263	122.047	15.245	1.00	68.98	A16S
ATOM	20367	O4*	A	A	974	225.120	120.836	16.046	1.00	68.98	A16S
ATOM	20368	C1*	A	A	974	225.593	119.721	15.313	1.00	68.98	A16S
ATOM	20369	N9	A	A	974	224.714	118.585	15.581	1.00	61.85	A16S
ATOM	20370	C4	A	A	974	225.043	117.249	15.539	1.00	61.85	A16S
ATOM	20371	N3	A	A	974	226.233	116.705	15.229	1.00	61.85	A16S
ATOM	20372	C2	A	A	974	226.178	115.369	15.326	1.00	61.85	A16S
ATOM	20373	N1	A	A	974	225.144	114.581	15.667	1.00	61.85	A16S
ATOM	20374	C6	A	A	974	223.960	115.166	15.960	1.00	61.85	A16S
ATOM	20375	N6	A	A	974	222.926	114.397	16.298	1.00	61.85	A16S
ATOM	20376	C5	A	A	974	223.888	116.564	15.896	1.00	61.85	A16S
ATOM	20377	N7	A	A	974	222.847	117.447	16.134	1.00	61.85	A16S
ATOM	20378	C8	A	A	974	223.386	118.630	15.934	1.00	61.85	A16S
ATOM	20379	C2*	A	A	974	225.570	120.141	13.845	1.00	68.98	A16S
ATOM	20380	O2*	A	A	974	226.441	119.360	13.056	1.00	68.98	A16S
ATOM	20381	C3*	A	A	974	225.928	121.620	13.940	1.00	68.98	A16S
ATOM	20382	O3*	A	A	974	227.335	121.785	14.021	1.00	68.98	A16S
ATOM	20383	P	A	A	975	228.025	123.095	13.392	1.00	63.03	A16S
ATOM	20384	O1P	A	A	975	227.046	123.813	12.517	1.00	74.21	A16S
ATOM	20385	O2P	A	A	975	229.340	122.668	12.836	1.00	74.21	A16S
ATOM	20386	O5*	A	A	975	228.315	124.012	14.662	1.00	63.03	A16S
ATOM	20387	C5*	A	A	975	228.343	125.449	14.567	1.00	63.03	A16S
ATOM	20388	C4*	A	A	975	228.020	126.053	15.913	1.00	63.03	A16S
ATOM	20389	O4*	A	A	975	228.168	127.490	15.877	1.00	63.03	A16S
ATOM	20390	C1*	A	A	975	226.905	128.097	15.804	1.00	63.03	A16S
ATOM	20391	N9	A	A	975	226.684	128.467	14.412	1.00	74.21	A16S
ATOM	20392	C4	A	A	975	226.489	129.735	13.943	1.00	74.21	A16S
ATOM	20393	N3	A	A	975	226.440	130.862	14.663	1.00	74.21	A16S
ATOM	20394	C2	A	A	975	226.244	131.916	13.866	1.00	74.21	A16S
ATOM	20395	N1	A	A	975	226.101	131.959	12.529	1.00	74.21	A16S
ATOM	20396	C6	A	A	975	226.154	130.800	11.838	1.00	74.21	A16S
ATOM	20397	N6	A	A	975	226.012	130.842	10.511	1.00	74.21	A16S
ATOM	20398	C5	A	A	975	226.359	129.615	12.568	1.00	74.21	A16S



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ATOM	20399	N7	A	A	975	226.461	128.290	12.180	1.00	74.21	A16S
ATOM	20400	C8	A	A	975	226.647	127.650	13.308	1.00	74.21	A16S
ATOM	20401	C2*	A	A	975	225.871	127.129	16.382	1.00	63.03	A16S
ATOM	20402	O2*	A	A	975	225.390	127.561	17.636	1.00	63.03	A16S
ATOM	20403	C3*	A	A	975	226.608	125.783	16.400	1.00	63.03	A16S
ATOM	20404	O3*	A	A	975	226.524	124.947	17.573	1.00	63.03	A16S
ATOM	20405	P	G	A	976	227.457	125.236	18.857	1.00	60.87	A16S
ATOM	20406	O1P	G	A	976	226.607	125.209	20.064	1.00	101.17	A16S
ATOM	20407	O2P	G	A	976	228.274	126.428	18.578	1.00	101.17	A16S
ATOM	20408	O5*	G	A	976	228.409	123.961	18.940	1.00	60.87	A16S
ATOM	20409	C5*	G	A	976	228.763	123.237	17.757	1.00	60.87	A16S
ATOM	20410	C4*	G	A	976	230.178	122.700	17.850	1.00	60.87	A16S
ATOM	20411	O4*	G	A	976	231.187	123.621	17.357	1.00	60.87	A16S
ATOM	20412	C1*	G	A	976	232.388	123.375	18.057	1.00	60.87	A16S
ATOM	20413	N9	G	A	976	233.222	124.572	18.018	1.00	101.17	A16S
ATOM	20414	C4	G	A	976	234.422	124.702	17.356	1.00	101.17	A16S
ATOM	20415	N3	G	A	976	235.034	123.742	16.632	1.00	101.17	A16S
ATOM	20416	C2	G	A	976	236.179	124.161	16.122	1.00	101.17	A16S
ATOM	20417	N2	G	A	976	236.911	123.328	15.386	1.00	101.17	A16S
ATOM	20418	N1	G	A	976	236.688	125.427	16.300	1.00	101.17	A16S
ATOM	20419	C6	G	A	976	236.079	126.436	17.041	1.00	101.17	A16S
ATOM	20420	O6	G	A	976	236.628	127.549	17.142	1.00	101.17	A16S
ATOM	20421	C5	G	A	976	234.839	125.993	17.601	1.00	101.17	A16S
ATOM	20422	N7	G	A	976	233.921	126.661	18.400	1.00	101.17	A16S
ATOM	20423	C8	G	A	976	232.984	125.779	18.624	1.00	101.17	A16S
ATOM	20424	C2*	G	A	976	231.946	122.956	19.459	1.00	60.87	A16S
ATOM	20425	O2*	G	A	976	232.979	122.234	20.103	1.00	60.87	A16S
ATOM	20426	C3*	G	A	976	230.687	122.123	19.172	1.00	60.87	A16S
ATOM	20427	O3*	G	A	976	231.001	120.745	19.024	1.00	60.87	A16S
ATOM	20428	P	A	A	977	230.135	119.643	19.816	1.00	70.94	A16S
ATOM	20429	O1P	A	A	977	228.710	119.754	19.404	1.00	94.42	A16S
ATOM	20430	O2P	A	A	977	230.484	119.697	21.256	1.00	94.42	A16S
ATOM	20431	O5*	A	A	977	230.674	118.267	19.239	1.00	70.94	A16S
ATOM	20432	C5*	A	A	977	232.055	117.948	19.329	1.00	70.94	A16S
ATOM	20433	C4*	A	A	977	232.223	116.716	20.154	1.00	70.94	A16S
ATOM	20434	O4*	A	A	977	231.487	115.634	19.542	1.00	70.94	A16S
ATOM	20435	C1*	A	A	977	232.136	114.415	19.833	1.00	70.94	A16S
ATOM	20436	N9	A	A	977	232.223	113.608	18.610	1.00	94.42	A16S
ATOM	20437	C4	A	A	977	233.294	113.470	17.756	1.00	94.42	A16S
ATOM	20438	N3	A	A	977	234.496	114.061	17.849	1.00	94.42	A16S
ATOM	20439	C2	A	A	977	235.285	113.683	16.849	1.00	94.42	A16S
ATOM	20440	N1	A	A	977	235.033	112.846	15.841	1.00	94.42	A16S
ATOM	20441	C6	A	A	977	233.819	112.268	15.772	1.00	94.42	A16S
ATOM	20442	N6	A	A	977	233.573	111.433	14.763	1.00	94.42	A16S
ATOM	20443	C5	A	A	977	232.884	112.586	16.776	1.00	94.42	A16S
ATOM	20444	N7	A	A	977	231.575	112.178	16.999	1.00	94.42	A16S
ATOM	20445	C8	A	A	977	231.230	112.812	18.091	1.00	94.42	A16S
ATOM	20446	C2*	A	A	977	233.446	114.725	20.574	1.00	70.94	A16S
ATOM	20447	O2*	A	A	977	233.268	114.479	21.951	1.00	70.94	A16S
ATOM	20448	C3*	A	A	977	233.648	116.212	20.288	1.00	70.94	A16S
ATOM	20449	O3*	A	A	977	234.259	116.895	21.386	1.00	70.94	A16S
ATOM	20450	P	A	A	978	235.861	117.022	21.487	1.00	75.34	A16S
ATOM	20451	O1P	A	A	978	236.124	118.081	22.494	1.00	78.72	A16S
ATOM	20452	O2P	A	A	978	236.442	117.148	20.124	1.00	78.72	A16S
ATOM	20453	O5*	A	A	978	236.321	115.642	22.132	1.00	75.34	A16S
ATOM	20454	C5*	A	A	978	236.354	114.436	21.356	1.00	75.34	A16S
ATOM	20455	C4*	A	A	978	237.185	113.402	22.061	1.00	75.34	A16S
ATOM	20456	O4*	A	A	978	238.539	113.894	22.138	1.00	75.34	A16S
ATOM	20457	C1*	A	A	978	239.105	113.532	23.383	1.00	75.34	A16S
ATOM	20458	N9	A	A	978	239.587	114.746	24.038	1.00	78.72	A16S
ATOM	20459	C4	A	A	978	240.783	114.863	24.698	1.00	78.72	A16S
ATOM	20460	N3	A	A	978	241.699	113.900	24.890	1.00	78.72	A16S
ATOM	20461	C2	A	A	978	242.742	114.379	25.550	1.00	78.72	A16S
ATOM	20462	N1	A	A	978	242.963	115.623	26.003	1.00	78.72	A16S
ATOM	20463	C6	A	A	978	242.024	116.569	25.788	1.00	78.72	A16S
ATOM	20464	N6	A	A	978	242.252	117.812	26.225	1.00	78.72	A16S
ATOM	20465	C5	A	A	978	240.861	116.183	25.107	1.00	78.72	A16S
ATOM	20466	N7	A	A	978	239.720	116.883	24.734	1.00	78.72	A16S
ATOM	20467	C8	A	A	978	238.994	115.987	24.109	1.00	78.72	A16S
ATOM	20468	C2*	A	A	978	238.074	112.726	24.178	1.00	75.34	A16S
ATOM	20469	O2*	A	A	978	238.389	111.349	24.085	1.00	75.34	A16S
ATOM	20470	C3*	A	A	978	236.765	113.124	23.497	1.00	75.34	A16S
ATOM	20471	O3*	A	A	978	235.834	112.051	23.519	1.00	75.34	A16S
ATOM	20472	P	C	A	979	234.550	112.128	24.466	1.00	93.03	A16S
ATOM	20473	O1P	C	A	979	233.885	110.789	24.427	1.00	81.40	A16S
ATOM	20474	O2P	C	A	979	233.799	113.326	24.081	1.00	81.40	A16S
ATOM	20475	O5*	C	A	979	235.170	112.396	25.905	1.00	93.03	A16S



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ATOM	20476	C5*	C	A	979	235.916	111.371	26.581	1.00	93.03	A16S
ATOM	20477	C4*	C	A	979	235.992	111.658	28.061	1.00	93.03	A16S
ATOM	20478	O4*	C	A	979	236.960	112.711	28.317	1.00	93.03	A16S
ATOM	20479	C1*	C	A	979	236.526	113.500	29.413	1.00	93.03	A16S
ATOM	20480	N1	C	A	979	236.376	114.900	28.955	1.00	81.40	A16S
ATOM	20481	C6	C	A	979	236.256	115.193	27.624	1.00	81.40	A16S
ATOM	20482	C2	C	A	979	236.353	115.931	29.906	1.00	81.40	A16S
ATOM	20483	O2	C	A	979	236.474	115.645	31.112	1.00	81.40	A16S
ATOM	20484	N3	C	A	979	236.203	117.216	29.487	1.00	81.40	A16S
ATOM	20485	C4	C	A	979	236.087	117.487	28.181	1.00	81.40	A16S
ATOM	20486	N4	C	A	979	235.945	118.771	27.806	1.00	81.40	A16S
ATOM	20487	C5	C	A	979	236.113	116.458	27.198	1.00	81.40	A16S
ATOM	20488	C2*	C	A	979	235.230	112.877	29.949	1.00	93.03	A16S
ATOM	20489	O2*	C	A	979	235.549	112.014	31.030	1.00	93.03	A16S
ATOM	20490	C3*	C	A	979	234.705	112.135	28.719	1.00	93.03	A16S
ATOM	20491	O3*	C	A	979	233.805	111.056	29.022	1.00	93.03	A16S
ATOM	20492	P	C	A	980	232.265	111.129	28.523	1.00	88.42	A16S
ATOM	20493	O1P	C	A	980	231.486	110.126	29.332	1.00	85.74	A16S
ATOM	20494	O2P	C	A	980	232.258	111.021	27.038	1.00	85.74	A16S
ATOM	20495	O5*	C	A	980	231.812	112.615	28.916	1.00	88.42	A16S
ATOM	20496	C5*	C	A	980	231.917	113.070	30.283	1.00	88.42	A16S
ATOM	20497	C4*	C	A	980	231.618	114.552	30.407	1.00	88.42	A16S
ATOM	20498	O4*	C	A	980	232.692	115.371	29.879	1.00	88.42	A16S
ATOM	20499	C1*	C	A	980	232.163	116.607	29.421	1.00	88.42	A16S
ATOM	20500	N1	C	A	980	232.510	116.777	28.003	1.00	85.74	A16S
ATOM	20501	C6	C	A	980	232.795	115.689	27.227	1.00	85.74	A16S
ATOM	20502	C2	C	A	980	232.546	118.080	27.448	1.00	85.74	A16S
ATOM	20503	O2	C	A	980	232.274	119.066	28.162	1.00	85.74	A16S
ATOM	20504	N3	C	A	980	232.876	118.222	26.146	1.00	85.74	A16S
ATOM	20505	C4	C	A	980	233.162	117.143	25.406	1.00	85.74	A16S
ATOM	20506	N4	C	A	980	233.498	117.329	24.129	1.00	85.74	A16S
ATOM	20507	C5	C	A	980	233.121	115.824	25.943	1.00	85.74	A16S
ATOM	20508	C2*	C	A	980	230.653	116.579	29.647	1.00	88.42	A16S
ATOM	20509	O2*	C	A	980	230.389	117.262	30.850	1.00	88.42	A16S
ATOM	20510	C3*	C	A	980	230.370	115.083	29.736	1.00	88.42	A16S
ATOM	20511	O3*	C	A	980	229.231	114.822	30.531	1.00	88.42	A16S
ATOM	20512	P	U	A	981	227.932	114.170	29.855	1.00	85.11	A16S
ATOM	20513	O1P	U	A	981	226.809	114.266	30.833	1.00	77.50	A16S
ATOM	20514	O2P	U	A	981	228.335	112.838	29.335	1.00	77.50	A16S
ATOM	20515	O5*	U	A	981	227.627	115.147	28.631	1.00	85.11	A16S
ATOM	20516	C5*	U	A	981	227.434	116.560	28.842	1.00	85.11	A16S
ATOM	20517	C4*	U	A	981	227.537	117.313	27.533	1.00	85.11	A16S
ATOM	20518	O4*	U	A	981	228.904	117.290	27.044	1.00	85.11	A16S
ATOM	20519	C1*	U	A	981	228.910	117.210	25.625	1.00	85.11	A16S
ATOM	20520	N1	U	A	981	229.579	115.956	25.232	1.00	77.50	A16S
ATOM	20521	C6	U	A	981	229.642	114.884	26.100	1.00	77.50	A16S
ATOM	20522	C2	U	A	981	230.140	115.872	23.960	1.00	77.50	A16S
ATOM	20523	O2	U	A	981	230.113	116.793	23.150	1.00	77.50	A16S
ATOM	20524	N3	U	A	981	230.732	114.661	23.671	1.00	77.50	A16S
ATOM	20525	C4	U	A	981	230.817	113.548	24.498	1.00	77.50	A16S
ATOM	20526	O4	U	A	981	231.357	112.516	24.086	1.00	77.50	A16S
ATOM	20527	C5	U	A	981	230.224	113.720	25.783	1.00	77.50	A16S
ATOM	20528	C2*	U	A	981	227.455	117.267	25.153	1.00	85.11	A16S
ATOM	20529	O2*	U	A	981	227.125	118.595	24.788	1.00	85.11	A16S
ATOM	20530	C3*	U	A	981	226.714	116.755	26.385	1.00	85.11	A16S
ATOM	20531	O3*	U	A	981	225.365	117.184	26.443	1.00	85.11	A16S
ATOM	20532	P	U	A	982	224.230	116.317	25.712	1.00	69.27	A16S
ATOM	20533	O1P	U	A	982	224.541	116.405	24.259	1.00	69.72	A16S
ATOM	20534	O2P	U	A	982	222.902	116.776	26.210	1.00	69.72	A16S
ATOM	20535	O5*	U	A	982	224.476	114.822	26.209	1.00	69.27	A16S
ATOM	20536	C5*	U	A	982	223.401	113.866	26.218	1.00	69.27	A16S
ATOM	20537	C4*	U	A	982	223.946	112.470	26.080	1.00	69.27	A16S
ATOM	20538	O4*	U	A	982	224.630	112.360	24.806	1.00	69.27	A16S
ATOM	20539	C1*	U	A	982	225.966	111.945	25.021	1.00	69.27	A16S
ATOM	20540	N1	U	A	982	226.830	112.514	23.970	1.00	69.72	A16S
ATOM	20541	C6	U	A	982	226.667	113.807	23.517	1.00	69.72	A16S
ATOM	20542	C2	U	A	982	227.803	111.689	23.421	1.00	69.72	A16S
ATOM	20543	O2	U	A	982	228.033	110.567	23.825	1.00	69.72	A16S
ATOM	20544	N3	U	A	982	228.504	112.236	22.383	1.00	69.72	A16S
ATOM	20545	C4	U	A	982	228.358	113.499	21.854	1.00	69.72	A16S
ATOM	20546	O4	U	A	982	228.977	113.794	20.829	1.00	69.72	A16S
ATOM	20547	C5	U	A	982	227.379	114.312	22.507	1.00	69.72	A16S
ATOM	20548	C2*	U	A	982	226.295	112.315	26.466	1.00	69.27	A16S
ATOM	20549	O2*	U	A	982	227.342	111.499	26.948	1.00	69.27	A16S
ATOM	20550	C3*	U	A	982	224.953	112.051	27.144	1.00	69.27	A16S
ATOM	20551	O3*	U	A	982	224.815	110.643	27.333	1.00	69.27	A16S
ATOM	20552	P	A	A	983	224.055	110.068	28.629	1.00	78.10	A16S



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ATOM	20553	O1P	A	A	983	223.796	111.221	29.537	1.00	69.23	A16S
ATOM	20554	O2P	A	A	983	224.810	108.879	29.137	1.00	69.23	A16S
ATOM	20555	O5*	A	A	983	222.647	109.561	28.068	1.00	78.10	A16S
ATOM	20556	C5*	A	A	983	222.556	108.455	27.138	1.00	78.10	A16S
ATOM	20557	C4*	A	A	983	221.446	108.704	26.137	1.00	78.10	A16S
ATOM	20558	O4*	A	A	983	221.663	109.988	25.512	1.00	78.10	A16S
ATOM	20559	C1*	A	A	983	221.168	109.957	24.196	1.00	78.10	A16S
ATOM	20560	N9	A	A	983	222.176	110.538	23.317	1.00	69.23	A16S
ATOM	20561	C4	A	A	983	223.319	109.953	22.833	1.00	69.23	A16S
ATOM	20562	N3	A	A	983	223.756	108.706	23.064	1.00	69.23	A16S
ATOM	20563	C2	A	A	983	224.901	108.491	22.428	1.00	69.23	A16S
ATOM	20564	N1	A	A	983	225.604	109.319	21.645	1.00	69.23	A16S
ATOM	20565	C6	A	A	983	225.130	110.565	21.429	1.00	69.23	A16S
ATOM	20566	N6	A	A	983	225.819	111.394	20.632	1.00	69.23	A16S
ATOM	20567	C5	A	A	983	223.931	110.916	22.051	1.00	69.23	A16S
ATOM	20568	N7	A	A	983	223.191	112.086	22.044	1.00	69.23	A16S
ATOM	20569	C8	A	A	983	222.163	111.810	22.808	1.00	69.23	A16S
ATOM	20570	C2*	A	A	983	220.707	108.534	23.870	1.00	78.10	A16S
ATOM	20571	O2*	A	A	983	219.300	108.473	23.912	1.00	78.10	A16S
ATOM	20572	C3*	A	A	983	221.344	107.713	24.986	1.00	78.10	A16S
ATOM	20573	O3*	A	A	983	220.440	106.666	25.321	1.00	78.10	A16S
ATOM	20574	P	C	A	984	220.979	105.329	26.026	1.00	79.62	A16S
ATOM	20575	O1P	C	A	984	219.841	104.374	26.120	1.00	95.14	A16S
ATOM	20576	O2P	C	A	984	221.684	105.748	27.264	1.00	95.14	A16S
ATOM	20577	O5*	C	A	984	222.045	104.741	24.996	1.00	79.62	A16S
ATOM	20578	C5*	C	A	984	221.641	104.348	23.673	1.00	79.62	A16S
ATOM	20579	C4*	C	A	984	222.770	103.645	22.955	1.00	79.62	A16S
ATOM	20580	O4*	C	A	984	223.791	104.590	22.554	1.00	79.62	A16S
ATOM	20581	C1*	C	A	984	225.049	103.939	22.532	1.00	79.62	A16S
ATOM	20582	N1	C	A	984	226.012	104.724	23.334	1.00	95.14	A16S
ATOM	20583	C6	C	A	984	225.582	105.701	24.188	1.00	95.14	A16S
ATOM	20584	C2	C	A	984	227.391	104.459	23.197	1.00	95.14	A16S
ATOM	20585	O2	C	A	984	227.768	103.558	22.422	1.00	95.14	A16S
ATOM	20586	N3	C	A	984	228.273	105.192	23.911	1.00	95.14	A16S
ATOM	20587	C4	C	A	984	227.837	106.148	24.730	1.00	95.14	A16S
ATOM	20588	N4	C	A	984	228.749	106.853	25.401	1.00	95.14	A16S
ATOM	20589	C5	C	A	984	226.450	106.428	24.896	1.00	95.14	A16S
ATOM	20590	C2*	C	A	984	224.846	102.491	22.991	1.00	79.62	A16S
ATOM	20591	O2*	C	A	984	224.773	101.644	21.860	1.00	79.62	A16S
ATOM	20592	C3*	C	A	984	223.515	102.576	23.731	1.00	79.62	A16S
ATOM	20593	O3*	C	A	984	222.820	101.342	23.685	1.00	79.62	A16S
ATOM	20594	P	C	A	985	223.051	100.259	24.848	1.00	81.60	A16S
ATOM	20595	O1P	C	A	985	222.259	99.043	24.475	1.00	77.51	A16S
ATOM	20596	O2P	C	A	985	222.810	100.930	26.156	1.00	77.51	A16S
ATOM	20597	O5*	C	A	985	224.600	99.901	24.741	1.00	81.60	A16S
ATOM	20598	C5*	C	A	985	225.082	99.146	23.624	1.00	81.60	A16S
ATOM	20599	C4*	C	A	985	226.536	98.823	23.795	1.00	81.60	A16S
ATOM	20600	O4*	C	A	985	227.327	100.022	23.662	1.00	81.60	A16S
ATOM	20601	C1*	C	A	985	228.462	99.933	24.502	1.00	81.60	A16S
ATOM	20602	N1	C	A	985	228.425	101.049	25.464	1.00	77.51	A16S
ATOM	20603	C6	C	A	985	227.274	101.756	25.670	1.00	77.51	A16S
ATOM	20604	C2	C	A	985	229.599	101.390	26.162	1.00	77.51	A16S
ATOM	20605	O2	C	A	985	230.621	100.725	25.981	1.00	77.51	A16S
ATOM	20606	N3	C	A	985	229.582	102.435	27.013	1.00	77.51	A16S
ATOM	20607	C4	C	A	985	228.457	103.131	27.189	1.00	77.51	A16S
ATOM	20608	N4	C	A	985	228.487	104.170	28.023	1.00	77.51	A16S
ATOM	20609	C5	C	A	985	227.247	102.796	26.511	1.00	77.51	A16S
ATOM	20610	C2*	C	A	985	228.424	98.568	25.175	1.00	81.60	A16S
ATOM	20611	O2*	C	A	985	229.148	97.668	24.364	1.00	81.60	A16S
ATOM	20612	C3*	C	A	985	226.941	98.255	25.137	1.00	81.60	A16S
ATOM	20613	O3*	C	A	985	226.702	96.866	25.215	1.00	81.60	A16S
ATOM	20614	P	A	A	986	226.467	96.193	26.654	1.00	91.45	A16S
ATOM	20615	O1P	A	A	986	226.080	94.771	26.450	1.00	80.65	A16S
ATOM	20616	O2P	A	A	986	225.562	97.101	27.410	1.00	80.65	A16S
ATOM	20617	O5*	A	A	986	227.910	96.228	27.334	1.00	91.45	A16S
ATOM	20618	C5*	A	A	986	228.977	95.406	26.828	1.00	91.45	A16S
ATOM	20619	C4*	A	A	986	230.247	95.635	27.614	1.00	91.45	A16S
ATOM	20620	O4*	A	A	986	230.743	96.980	27.399	1.00	91.45	A16S
ATOM	20621	C1*	A	A	986	231.411	97.432	28.563	1.00	91.45	A16S
ATOM	20622	N9	A	A	986	230.767	98.657	29.023	1.00	80.65	A16S
ATOM	20623	C4	A	A	986	231.378	99.641	29.761	1.00	80.65	A16S
ATOM	20624	N3	A	A	986	232.646	99.654	30.209	1.00	80.65	A16S
ATOM	20625	C2	A	A	986	232.893	100.777	30.875	1.00	80.65	A16S
ATOM	20626	N1	A	A	986	232.082	101.812	31.121	1.00	80.65	A16S
ATOM	20627	C6	A	A	986	230.813	101.764	30.662	1.00	80.65	A16S
ATOM	20628	N6	A	A	986	230.004	102.790	30.916	1.00	80.65	A16S
ATOM	20629	C5	A	A	986	230.422	100.625	29.942	1.00	80.65	A16S



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ATOM	20630	N7	A	A	986	229.221	100.262	29.344	1.00	80.65	A16S
ATOM	20631	C8	A	A	986	229.475	99.086	28.819	1.00	80.65	A16S
ATOM	20632	C2*	A	A	986	231.345	96.321	29.604	1.00	91.45	A16S
ATOM	20633	O2*	A	A	986	232.559	95.596	29.557	1.00	91.45	A16S
ATOM	20634	C3*	A	A	986	230.142	95.521	29.121	1.00	91.45	A16S
ATOM	20635	O3*	A	A	986	230.182	94.177	29.547	1.00	91.45	A16S
ATOM	20636	P	G	A	987	229.318	93.740	30.821	1.00100.17		A16S
ATOM	20637	O1P	G	A	987	229.423	92.253	30.896	1.00	81.68	A16S
ATOM	20638	O2P	G	A	987	227.977	94.379	30.724	1.00	81.68	A16S
ATOM	20639	O5*	G	A	987	230.077	94.418	32.053	1.00100.17		A16S
ATOM	20640	C5*	G	A	987	231.316	93.866	32.547	1.00100.17		A16S
ATOM	20641	C4*	G	A	987	232.091	94.897	33.336	1.00100.17		A16S
ATOM	20642	O4*	G	A	987	232.159	96.117	32.557	1.00100.17		A16S
ATOM	20643	C1*	G	A	987	232.192	97.233	33.424	1.00100.17		A16S
ATOM	20644	N9	G	A	987	231.022	98.062	33.172	1.00	81.68	A16S
ATOM	20645	C4	G	A	987	230.868	99.352	33.597	1.00	81.68	A16S
ATOM	20646	N3	G	A	987	231.786	100.065	34.282	1.00	81.68	A16S
ATOM	20647	C2	G	A	987	231.349	101.272	34.577	1.00	81.68	A16S
ATOM	20648	N2	G	A	987	232.136	102.105	35.263	1.00	81.68	A16S
ATOM	20649	N1	G	A	987	230.107	101.748	34.224	1.00	81.68	A16S
ATOM	20650	C6	G	A	987	229.143	101.030	33.519	1.00	81.68	A16S
ATOM	20651	O6	G	A	987	228.049	101.553	33.258	1.00	81.68	A16S
ATOM	20652	C5	G	A	987	229.603	99.724	33.196	1.00	81.68	A16S
ATOM	20653	N7	G	A	987	228.978	98.689	32.511	1.00	81.68	A16S
ATOM	20654	C8	G	A	987	229.860	97.725	32.514	1.00	81.68	A16S
ATOM	20655	C2*	G	A	987	232.168	96.716	34.860	1.00100.17		A16S
ATOM	20656	O2*	G	A	987	233.488	96.689	35.361	1.00100.17		A16S
ATOM	20657	C3*	G	A	987	231.527	95.344	34.678	1.00100.17		A16S
ATOM	20658	O3*	G	A	987	231.848	94.451	35.743	1.00100.17		A16S
ATOM	20659	P	G	A	988	230.914	94.408	37.059	1.00100.13		A16S
ATOM	20660	O1P	G	A	988	231.417	93.289	37.909	1.00	96.58	A16S
ATOM	20661	O2P	G	A	988	229.488	94.411	36.639	1.00	96.58	A16S
ATOM	20662	O5*	G	A	988	231.216	95.798	37.789	1.00100.13		A16S
ATOM	20663	C5*	G	A	988	232.450	95.998	38.504	1.00100.13		A16S
ATOM	20664	C4*	G	A	988	232.420	97.285	39.303	1.00100.13		A16S
ATOM	20665	O4*	G	A	988	232.434	98.431	38.413	1.00100.13		A16S
ATOM	20666	C1*	G	A	988	231.747	99.516	39.020	1.00100.13		A16S
ATOM	20667	N9	G	A	988	230.577	99.842	38.209	1.00	96.58	A16S
ATOM	20668	C4	G	A	988	229.956	101.066	38.135	1.00	96.58	A16S
ATOM	20669	N3	G	A	988	230.335	102.185	38.783	1.00	96.58	A16S
ATOM	20670	C2	G	A	988	229.538	103.202	38.520	1.00	96.58	A16S
ATOM	20671	N2	G	A	988	229.776	104.396	39.083	1.00	96.58	A16S
ATOM	20672	N1	G	A	988	228.452	103.126	37.685	1.00	96.58	A16S
ATOM	20673	C6	G	A	988	228.040	101.987	37.002	1.00	96.58	A16S
ATOM	20674	O6	G	A	988	227.045	102.033	36.262	1.00	96.58	A16S
ATOM	20675	C5	G	A	988	228.887	100.884	37.280	1.00	96.58	A16S
ATOM	20676	N7	G	A	988	228.839	99.575	36.822	1.00	96.58	A16S
ATOM	20677	C8	G	A	988	229.860	98.995	37.394	1.00	96.58	A16S
ATOM	20678	C2*	G	A	988	231.300	99.057	40.405	1.00100.13		A16S
ATOM	20679	O2*	G	A	988	232.247	99.458	41.378	1.00100.13		A16S
ATOM	20680	C3*	G	A	988	231.230	97.548	40.212	1.00100.13		A16S
ATOM	20681	O3*	G	A	988	231.271	96.861	41.451	1.00100.13		A16S
ATOM	20682	P	C	A	989	229.888	96.465	42.174	1.00123.95		A16S
ATOM	20683	O1P	C	A	989	230.260	95.786	43.438	1.00101.52		A16S
ATOM	20684	O2P	C	A	989	229.032	95.755	41.186	1.00101.52		A16S
ATOM	20685	O5*	C	A	989	229.212	97.870	42.531	1.00123.95		A16S
ATOM	20686	C5*	C	A	989	229.833	98.756	43.486	1.00123.95		A16S
ATOM	20687	C4*	C	A	989	229.201	100.138	43.459	1.00123.95		A16S
ATOM	20688	O4*	C	A	989	229.254	100.686	42.114	1.00123.95		A16S
ATOM	20689	C1*	C	A	989	228.197	101.622	41.939	1.00123.95		A16S
ATOM	20690	N1	C	A	989	227.300	101.178	40.855	1.00101.52		A16S
ATOM	20691	C6	C	A	989	227.175	99.853	40.525	1.00101.52		A16S
ATOM	20692	C2	C	A	989	226.531	102.147	40.190	1.00101.52		A16S
ATOM	20693	O2	C	A	989	226.696	103.349	40.478	1.00101.52		A16S
ATOM	20694	N3	C	A	989	225.631	101.749	39.259	1.00101.52		A16S
ATOM	20695	C4	C	A	989	225.491	100.449	38.975	1.00101.52		A16S
ATOM	20696	N4	C	A	989	224.565	100.099	38.078	1.00101.52		A16S
ATOM	20697	C5	C	A	989	226.289	99.449	39.605	1.00101.52		A16S
ATOM	20698	C2*	C	A	989	227.404	101.666	43.241	1.00123.95		A16S
ATOM	20699	O2*	C	A	989	227.834	102.767	44.020	1.00123.95		A16S
ATOM	20700	C3*	C	A	989	227.737	100.308	43.848	1.00123.95		A16S
ATOM	20701	O3*	C	A	989	227.495	100.321	45.249	1.00123.95		A16S
ATOM	20702	P	C	A	990	226.004	100.048	45.800	1.00127.23		A16S
ATOM	20703	O1P	C	A	990	226.085	100.055	47.283	1.00123.87		A16S
ATOM	20704	O2P	C	A	990	225.443	98.861	45.099	1.00123.87		A16S
ATOM	20705	O5*	C	A	990	225.168	101.329	45.348	1.00127.23		A16S
ATOM	20706	C5*	C	A	990	225.409	102.620	45.939	1.00127.23		A16S



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ATOM	20707	C4*	C	A	990	224.259	103.556	45.649	1.00127.23	A16S
ATOM	20708	O4*	C	A	990	224.201	103.851	44.227	1.00127.23	A16S
ATOM	20709	C1*	C	A	990	222.845	104.010	43.822	1.00127.23	A16S
ATOM	20710	N1	C	A	990	222.522	103.014	42.763	1.00123.87	A16S
ATOM	20711	C6	C	A	990	223.167	101.806	42.707	1.00123.87	A16S
ATOM	20712	C2	C	A	990	221.531	103.329	41.802	1.00123.87	A16S
ATOM	20713	O2	C	A	990	220.937	104.420	41.873	1.00123.87	A16S
ATOM	20714	N3	C	A	990	221.248	102.430	40.826	1.00123.87	A16S
ATOM	20715	C4	C	A	990	221.895	101.263	40.782	1.00123.87	A16S
ATOM	20716	N4	C	A	990	221.588	100.416	39.797	1.00123.87	A16S
ATOM	20717	C5	C	A	990	222.887	100.911	41.745	1.00123.87	A16S
ATOM	20718	C2*	C	A	990	221.977	103.867	45.073	1.00127.23	A16S
ATOM	20719	O2*	C	A	990	221.709	105.154	45.600	1.00127.23	A16S
ATOM	20720	C3*	C	A	990	222.873	103.026	45.976	1.00127.23	A16S
ATOM	20721	O3*	C	A	990	222.546	103.158	47.353	1.00127.23	A16S
ATOM	20722	P	U	A	991	221.993	101.880	48.162	1.00142.24	A16S
ATOM	20723	O1P	U	A	991	222.944	101.636	49.274	1.00155.55	A16S
ATOM	20724	O2P	U	A	991	221.690	100.784	47.199	1.00155.55	A16S
ATOM	20725	O5*	U	A	991	220.633	102.395	48.812	1.00142.24	A16S
ATOM	20726	C5*	U	A	991	219.342	102.031	48.268	1.00142.24	A16S
ATOM	20727	C4*	U	A	991	218.800	103.162	47.427	1.00142.24	A16S
ATOM	20728	O4*	U	A	991	219.474	103.152	46.145	1.00142.24	A16S
ATOM	20729	C1*	U	A	991	218.579	103.560	45.128	1.00142.24	A16S
ATOM	20730	N1	U	A	991	218.496	102.493	44.112	1.00155.55	A16S
ATOM	20731	C6	U	A	991	219.010	101.233	44.350	1.00155.55	A16S
ATOM	20732	C2	U	A	991	217.902	102.793	42.890	1.00155.55	A16S
ATOM	20733	O2	U	A	991	217.413	103.880	42.632	1.00155.55	A16S
ATOM	20734	N3	U	A	991	217.903	101.767	41.978	1.00155.55	A16S
ATOM	20735	C4	U	A	991	218.417	100.501	42.150	1.00155.55	A16S
ATOM	20736	O4	U	A	991	218.384	99.705	41.213	1.00155.55	A16S
ATOM	20737	C5	U	A	991	218.993	100.258	43.436	1.00155.55	A16S
ATOM	20738	C2*	U	A	991	217.256	103.929	45.797	1.00142.24	A16S
ATOM	20739	O2*	U	A	991	217.279	105.319	46.053	1.00142.24	A16S
ATOM	20740	C3*	U	A	991	217.318	103.120	47.089	1.00142.24	A16S
ATOM	20741	O3*	U	A	991	216.595	103.743	48.153	1.00142.24	A16S
ATOM	20742	P	U	A	992	214.998	103.961	48.046	1.00116.82	A16S
ATOM	20743	O1P	U	A	992	214.337	102.935	48.899	1.00148.39	A16S
ATOM	20744	O2P	U	A	992	214.600	104.085	46.622	1.00148.39	A16S
ATOM	20745	O5*	U	A	992	214.795	105.390	48.721	1.00116.82	A16S
ATOM	20746	C5*	U	A	992	215.639	106.491	48.345	1.00116.82	A16S
ATOM	20747	C4*	U	A	992	214.813	107.727	48.107	1.00116.82	A16S
ATOM	20748	O4*	U	A	992	213.645	107.372	47.329	1.00116.82	A16S
ATOM	20749	C1*	U	A	992	212.619	108.310	47.583	1.00116.82	A16S
ATOM	20750	N1	U	A	992	211.300	107.657	47.516	1.00148.39	A16S
ATOM	20751	C6	U	A	992	211.168	106.286	47.496	1.00148.39	A16S
ATOM	20752	C2	U	A	992	210.181	108.482	47.439	1.00148.39	A16S
ATOM	20753	O2	U	A	992	210.241	109.702	47.500	1.00148.39	A16S
ATOM	20754	N3	U	A	992	208.987	107.823	47.291	1.00148.39	A16S
ATOM	20755	C4	U	A	992	208.791	106.459	47.229	1.00148.39	A16S
ATOM	20756	O4	U	A	992	207.657	106.021	47.019	1.00148.39	A16S
ATOM	20757	C5	U	A	992	209.987	105.676	47.358	1.00148.39	A16S
ATOM	20758	C2*	U	A	992	212.962	109.099	48.848	1.00116.82	A16S
ATOM	20759	O2*	U	A	992	213.053	110.459	48.487	1.00116.82	A16S
ATOM	20760	C3*	U	A	992	214.236	108.394	49.343	1.00116.82	A16S
ATOM	20761	O3*	U	A	992	215.230	109.197	50.016	1.00116.82	A16S
ATOM	20762	P	G	A	993	215.943	110.450	49.270	1.00174.18	A16S
ATOM	20763	O1P	G	A	993	217.103	110.829	50.120	1.00 96.18	A16S
ATOM	20764	O2P	G	A	993	214.958	111.495	48.896	1.00 96.18	A16S
ATOM	20765	O5*	G	A	993	216.544	109.820	47.933	1.00174.18	A16S
ATOM	20766	C5*	G	A	993	216.619	110.583	46.708	1.00174.18	A16S
ATOM	20767	C4*	G	A	993	217.298	109.766	45.636	1.00174.18	A16S
ATOM	20768	O4*	G	A	993	216.630	108.488	45.534	1.00174.18	A16S
ATOM	20769	C1*	G	A	993	216.744	108.011	44.214	1.00174.18	A16S
ATOM	20770	N9	G	A	993	215.500	107.354	43.814	1.00 96.18	A16S
ATOM	20771	C4	G	A	993	214.212	107.860	43.802	1.00 96.18	A16S
ATOM	20772	N3	G	A	993	213.833	109.110	44.150	1.00 96.18	A16S
ATOM	20773	C2	G	A	993	212.514	109.271	44.052	1.00 96.18	A16S
ATOM	20774	N2	G	A	993	211.946	110.448	44.373	1.00 96.18	A16S
ATOM	20775	N1	G	A	993	211.650	108.288	43.635	1.00 96.18	A16S
ATOM	20776	C6	G	A	993	212.025	106.999	43.264	1.00 96.18	A16S
ATOM	20777	O6	G	A	993	211.171	106.185	42.893	1.00 96.18	A16S
ATOM	20778	C5	G	A	993	213.417	106.810	43.375	1.00 96.18	A16S
ATOM	20779	N7	G	A	993	214.181	105.683	43.113	1.00 96.18	A16S
ATOM	20780	C8	G	A	993	215.402	106.052	43.380	1.00 96.18	A16S
ATOM	20781	C2*	G	A	993	217.355	109.097	43.322	1.00174.18	A16S
ATOM	20782	O2*	G	A	993	218.663	108.698	42.977	1.00174.18	A16S
ATOM	20783	C3*	G	A	993	217.280	110.333	44.222	1.00174.18	A16S



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ATOM	20784	O3*	G	A	993	218.305	111.331	44.027	1.00174.18	A16S
ATOM	20785	P	A	A	994	219.882	110.950	44.127	1.00 97.60	A16S
ATOM	20786	O1P	A	A	994	220.377	110.459	42.821	1.00103.02	A16S
ATOM	20787	O2P	A	A	994	220.116	110.128	45.336	1.00103.02	A16S
ATOM	20788	O5*	A	A	994	220.567	112.366	44.368	1.00 97.60	A16S
ATOM	20789	C5*	A	A	994	221.887	112.668	43.868	1.00 97.60	A16S
ATOM	20790	C4*	A	A	994	221.806	113.695	42.755	1.00 97.60	A16S
ATOM	20791	O4*	A	A	994	221.655	113.031	41.474	1.00 97.60	A16S
ATOM	20792	C1*	A	A	994	220.790	113.786	40.633	1.00 97.60	A16S
ATOM	20793	N9	A	A	994	219.636	112.940	40.283	1.00103.02	A16S
ATOM	20794	C4	A	A	994	218.464	113.324	39.669	1.00103.02	A16S
ATOM	20795	N3	A	A	994	218.122	114.554	39.256	1.00103.02	A16S
ATOM	20796	C2	A	A	994	216.915	114.541	38.693	1.00103.02	A16S
ATOM	20797	N1	A	A	994	216.076	113.517	38.512	1.00103.02	A16S
ATOM	20798	C6	A	A	994	216.451	112.292	38.939	1.00103.02	A16S
ATOM	20799	N6	A	A	994	215.616	111.264	38.758	1.00103.02	A16S
ATOM	20800	C5	A	A	994	217.705	112.171	39.551	1.00103.02	A16S
ATOM	20801	N7	A	A	994	218.376	111.081	40.082	1.00103.02	A16S
ATOM	20802	C8	A	A	994	219.510	111.585	40.499	1.00103.02	A16S
ATOM	20803	C2*	A	A	994	220.443	115.081	41.376	1.00 97.60	A16S
ATOM	20804	O2*	A	A	994	221.333	116.111	40.983	1.00 97.60	A16S
ATOM	20805	C3*	A	A	994	220.632	114.658	42.830	1.00 97.60	A16S
ATOM	20806	O3*	A	A	994	220.872	115.743	43.713	1.00 97.60	A16S
ATOM	20807	P	C	A	995	219.649	116.360	44.562	1.00133.67	A16S
ATOM	20808	O1P	C	A	995	220.213	117.016	45.773	1.00 91.91	A16S
ATOM	20809	O2P	C	A	995	218.590	115.316	44.721	1.00 91.91	A16S
ATOM	20810	O5*	C	A	995	219.091	117.509	43.613	1.00133.67	A16S
ATOM	20811	C5*	C	A	995	217.812	118.084	43.861	1.00133.67	A16S
ATOM	20812	C4*	C	A	995	217.231	118.648	42.592	1.00133.67	A16S
ATOM	20813	O4*	C	A	995	217.370	117.700	41.503	1.00133.67	A16S
ATOM	20814	C1*	C	A	995	216.136	117.580	40.809	1.00133.67	A16S
ATOM	20815	N1	C	A	995	215.583	116.237	41.123	1.00 91.91	A16S
ATOM	20816	C6	C	A	995	216.369	115.298	41.735	1.00 91.91	A16S
ATOM	20817	C2	C	A	995	214.245	115.924	40.785	1.00 91.91	A16S
ATOM	20818	O2	C	A	995	213.526	116.788	40.249	1.00 91.91	A16S
ATOM	20819	N3	C	A	995	213.772	114.685	41.063	1.00 91.91	A16S
ATOM	20820	C4	C	A	995	214.559	113.782	41.656	1.00 91.91	A16S
ATOM	20821	N4	C	A	995	214.048	112.572	41.914	1.00 91.91	A16S
ATOM	20822	C5	C	A	995	215.905	114.074	42.015	1.00 91.91	A16S
ATOM	20823	C2*	C	A	995	215.248	118.727	41.296	1.00133.67	A16S
ATOM	20824	O2*	C	A	995	215.469	119.897	40.534	1.00133.67	A16S
ATOM	20825	C3*	C	A	995	215.742	118.876	42.718	1.00133.67	A16S
ATOM	20826	O3*	C	A	995	215.447	120.109	43.321	1.00133.67	A16S
ATOM	20827	P	A	A	996	214.527	120.120	44.629	1.00159.78	A16S
ATOM	20828	O1P	A	A	996	214.592	121.508	45.160	1.00 85.40	A16S
ATOM	20829	O2P	A	A	996	214.924	118.968	45.497	1.00 85.40	A16S
ATOM	20830	O5*	A	A	996	213.069	119.813	44.064	1.00159.78	A16S
ATOM	20831	C5*	A	A	996	212.385	120.765	43.232	1.00159.78	A16S
ATOM	20832	C4*	A	A	996	210.898	120.585	43.364	1.00159.78	A16S
ATOM	20833	O4*	A	A	996	210.499	119.358	42.713	1.00159.78	A16S
ATOM	20834	C1*	A	A	996	209.466	118.745	43.458	1.00159.78	A16S
ATOM	20835	N9	A	A	996	209.931	117.425	43.858	1.00 85.40	A16S
ATOM	20836	C4	A	A	996	209.143	116.309	44.006	1.00 85.40	A16S
ATOM	20837	N3	A	A	996	207.810	116.229	43.860	1.00 85.40	A16S
ATOM	20838	C2	A	A	996	207.387	114.978	44.042	1.00 85.40	A16S
ATOM	20839	N1	A	A	996	208.088	113.875	44.333	1.00 85.40	A16S
ATOM	20840	C6	A	A	996	209.427	113.983	44.481	1.00 85.40	A16S
ATOM	20841	N6	A	A	996	210.123	112.875	44.771	1.00 85.40	A16S
ATOM	20842	C5	A	A	996	210.005	115.275	44.314	1.00 85.40	A16S
ATOM	20843	N7	A	A	996	211.314	115.743	44.395	1.00 85.40	A16S
ATOM	20844	C8	A	A	996	211.212	117.023	44.126	1.00 85.40	A16S
ATOM	20845	C2*	A	A	996	209.133	119.634	44.653	1.00159.78	A16S
ATOM	20846	O2*	A	A	996	208.000	120.426	44.361	1.00159.78	A16S
ATOM	20847	C3*	A	A	996	210.414	120.441	44.795	1.00159.78	A16S
ATOM	20848	O3*	A	A	996	210.183	121.702	45.388	1.00159.78	A16S
ATOM	20849	P	U	A	997	210.041	121.809	46.979	1.00156.35	A16S
ATOM	20850	O1P	U	A	997	210.177	123.254	47.286	1.00103.28	A16S
ATOM	20851	O2P	U	A	997	210.957	120.822	47.619	1.00103.28	A16S
ATOM	20852	O5*	U	A	997	208.551	121.327	47.271	1.00156.35	A16S
ATOM	20853	C5*	U	A	997	207.440	122.238	47.210	1.00156.35	A16S
ATOM	20854	C4*	U	A	997	206.179	121.535	47.648	1.00156.35	A16S
ATOM	20855	O4*	U	A	997	205.945	120.416	46.748	1.00156.35	A16S
ATOM	20856	C1*	U	A	997	205.417	119.316	47.474	1.00156.35	A16S
ATOM	20857	N1	U	A	997	206.378	118.203	47.415	1.00103.28	A16S
ATOM	20858	C6	U	A	997	207.726	118.410	47.640	1.00103.28	A16S
ATOM	20859	C2	U	A	997	205.885	116.928	47.162	1.00103.28	A16S
ATOM	20860	O2	U	A	997	204.711	116.696	46.897	1.00103.28	A16S



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ATOM	20861	N3	U	A	997	206.822	115.928	47.225	1.00103.28	A16S
ATOM	20862	C4	U	A	997	208.169	116.065	47.489	1.00103.28	A16S
ATOM	20863	O4	U	A	997	208.849	115.053	47.662	1.00103.28	A16S
ATOM	20864	C5	U	A	997	208.610	117.415	47.682	1.00103.28	A16S
ATOM	20865	C2*	U	A	997	205.221	119.765	48.921	1.00156.35	A16S
ATOM	20866	O2*	U	A	997	203.887	120.174	49.145	1.00156.35	A16S
ATOM	20867	C3*	U	A	997	206.238	120.892	49.028	1.00156.35	A16S
ATOM	20868	O3*	U	A	997	205.952	121.778	50.101	1.00156.35	A16S
ATOM	20869	P	G	A	998	206.475	121.416	51.579	1.00141.51	A16S
ATOM	20870	O1P	G	A	998	205.952	122.472	52.484	1.00164.20	A16S
ATOM	20871	O2P	G	A	998	207.938	121.163	51.518	1.00164.20	A16S
ATOM	20872	O5*	G	A	998	205.745	120.037	51.924	1.00141.51	A16S
ATOM	20873	C5*	G	A	998	204.320	120.004	52.102	1.00141.51	A16S
ATOM	20874	C4*	G	A	998	203.782	118.588	52.049	1.00141.51	A16S
ATOM	20875	O4*	G	A	998	204.264	117.904	50.862	1.00141.51	A16S
ATOM	20876	C1*	G	A	998	204.224	116.504	51.082	1.00141.51	A16S
ATOM	20877	N9	G	A	998	205.548	115.927	50.885	1.00164.20	A16S
ATOM	20878	C4	G	A	998	205.847	114.585	50.983	1.00164.20	A16S
ATOM	20879	N3	G	A	998	204.962	113.596	51.241	1.00164.20	A16S
ATOM	20880	C2	G	A	998	205.545	112.412	51.301	1.00164.20	A16S
ATOM	20881	N2	G	A	998	204.807	111.325	51.543	1.00164.20	A16S
ATOM	20882	N1	G	A	998	206.892	112.207	51.124	1.00164.20	A16S
ATOM	20883	C6	G	A	998	207.825	113.204	50.855	1.00164.20	A16S
ATOM	20884	O6	G	A	998	209.020	112.904	50.711	1.00164.20	A16S
ATOM	20885	C5	G	A	998	207.207	114.495	50.784	1.00164.20	A16S
ATOM	20886	N7	G	A	998	207.752	115.753	50.542	1.00164.20	A16S
ATOM	20887	C8	G	A	998	206.731	116.569	50.606	1.00164.20	A16S
ATOM	20888	C2*	G	A	998	203.784	116.271	52.526	1.00141.51	A16S
ATOM	20889	O2*	G	A	998	202.409	115.936	52.541	1.00141.51	A16S
ATOM	20890	C3*	G	A	998	204.110	117.614	53.174	1.00141.51	A16S
ATOM	20891	O3*	G	A	998	203.328	117.810	54.354	1.00141.51	A16S
ATOM	20892	P	C	A	999	203.854	117.234	55.770	1.00150.54	A16S
ATOM	20893	O1P	C	A	999	202.998	117.844	56.818	1.00178.81	A16S
ATOM	20894	O2P	C	A	999	205.331	117.396	55.846	1.00178.81	A16S
ATOM	20895	O5*	C	A	999	203.535	115.671	55.713	1.00150.54	A16S
ATOM	20896	C5*	C	A	999	202.176	115.205	55.640	1.00150.54	A16S
ATOM	20897	C4*	C	A	999	202.104	113.711	55.864	1.00150.54	A16S
ATOM	20898	O4*	C	A	999	202.744	113.006	54.770	1.00150.54	A16S
ATOM	20899	C1*	C	A	999	203.277	111.778	55.244	1.00150.54	A16S
ATOM	20900	N1	C	A	999	204.726	111.722	54.956	1.00178.81	A16S
ATOM	20901	C6	C	A	999	205.509	112.843	55.031	1.00178.81	A16S
ATOM	20902	C2	C	A	999	205.299	110.482	54.617	1.00178.81	A16S
ATOM	20903	O2	C	A	999	204.567	109.477	54.538	1.00178.81	A16S
ATOM	20904	N3	C	A	999	206.632	110.410	54.386	1.00178.81	A16S
ATOM	20905	C4	C	A	999	207.387	111.508	54.476	1.00178.81	A16S
ATOM	20906	N4	C	A	999	208.700	111.385	54.251	1.00178.81	A16S
ATOM	20907	C5	C	A	999	206.831	112.782	54.804	1.00178.81	A16S
ATOM	20908	C2*	C	A	999	202.988	111.688	56.743	1.00150.54	A16S
ATOM	20909	O2*	C	A	999	201.844	110.882	56.953	1.00150.54	A16S
ATOM	20910	C3*	C	A	999	202.776	113.154	57.110	1.00150.54	A16S
ATOM	20911	O3*	C	A	999	201.978	113.299	58.279	1.00150.54	A16S
ATOM	20912	P	U	A1000		202.666	113.187	59.731	1.00178.21	A16S
ATOM	20913	O1P	U	A1000		201.672	113.683	60.718	1.00182.40	A16S
ATOM	20914	O2P	U	A1000		204.024	113.797	59.688	1.00182.40	A16S
ATOM	20915	O5*	U	A1000		202.837	111.620	59.949	1.00178.21	A16S
ATOM	20916	C5*	U	A1000		201.715	110.805	60.326	1.00178.21	A16S
ATOM	20917	C4*	U	A1000		202.170	109.399	60.618	1.00178.21	A16S
ATOM	20918	O4*	U	A1000		202.615	108.773	59.384	1.00178.21	A16S
ATOM	20919	C1*	U	A1000		203.733	107.937	59.645	1.00178.21	A16S
ATOM	20920	N1	U	A1000		204.906	108.496	58.948	1.00182.40	A16S
ATOM	20921	C6	U	A1000		205.131	109.860	58.901	1.00182.40	A16S
ATOM	20922	C2	U	A1000		205.796	107.612	58.356	1.00182.40	A16S
ATOM	20923	O2	U	A1000		205.633	106.400	58.358	1.00182.40	A16S
ATOM	20924	N3	U	A1000		206.887	108.202	57.760	1.00182.40	A16S
ATOM	20925	C4	U	A1000		207.175	109.553	57.694	1.00182.40	A16S
ATOM	20926	O4	U	A1000		208.214	109.928	57.143	1.00182.40	A16S
ATOM	20927	C5	U	A1000		206.205	110.400	58.315	1.00182.40	A16S
ATOM	20928	C2*	U	A1000		203.956	107.937	61.158	1.00178.21	A16S
ATOM	20929	O2*	U	A1000		203.283	106.848	61.762	1.00178.21	A16S
ATOM	20930	C3*	U	A1000		203.371	109.287	61.543	1.00178.21	A16S
ATOM	20931	O3*	U	A1000		203.061	109.396	62.922	1.00178.21	A16S
ATOM	20932	P	A	A1001		204.176	109.967	63.934	1.00198.59	A16S
ATOM	20933	O1P	A	A1001		203.504	110.271	65.222	1.00198.94	A16S
ATOM	20934	O2P	A	A1001		204.945	111.038	63.238	1.00198.94	A16S
ATOM	20935	O5*	A	A1001		205.150	108.724	64.160	1.00198.59	A16S
ATOM	20936	C5*	A	A1001		204.652	107.477	64.694	1.00198.59	A16S
ATOM	20937	C4*	A	A1001		205.645	106.363	64.449	1.00198.59	A16S



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ATOM	20938	O4*	A	A1001	205.796	106.169	63.017	1.00198.59	A16S
ATOM	20939	C1*	A	A1001	207.157	105.914	62.703	1.00198.59	A16S
ATOM	20940	N9	A	A1001	207.669	107.065	61.950	1.00198.94	A16S
ATOM	20941	C4	A	A1001	208.881	107.160	61.306	1.00198.94	A16S
ATOM	20942	N3	A	A1001	209.832	106.215	61.209	1.00198.94	A16S
ATOM	20943	C2	A	A1001	210.879	106.673	60.527	1.00198.94	A16S
ATOM	20944	N1	A	A1001	211.072	107.880	59.972	1.00198.94	A16S
ATOM	20945	C6	A	A1001	210.098	108.808	60.088	1.00198.94	A16S
ATOM	20946	N6	A	A1001	210.291	110.014	59.541	1.00198.94	A16S
ATOM	20947	C5	A	A1001	208.933	108.446	60.787	1.00198.94	A16S
ATOM	20948	N7	A	A1001	207.770	109.142	61.081	1.00198.94	A16S
ATOM	20949	C8	A	A1001	207.054	108.283	61.764	1.00198.94	A16S
ATOM	20950	C2*	A	A1001	207.899	105.752	64.031	1.00198.59	A16S
ATOM	20951	O2*	A	A1001	207.905	104.389	64.413	1.00198.59	A16S
ATOM	20952	C3*	A	A1001	207.057	106.624	64.952	1.00198.59	A16S
ATOM	20953	O3*	A	A1001	207.225	106.321	66.332	1.00198.59	A16S
ATOM	20954	P	G	A1002	208.274	107.174	67.209	1.00198.94	A16S
ATOM	20955	O1P	G	A1002	207.943	106.937	68.637	1.00198.94	A16S
ATOM	20956	O2P	G	A1002	208.336	108.568	66.694	1.00198.94	A16S
ATOM	20957	O5*	G	A1002	209.677	106.487	66.902	1.00198.94	A16S
ATOM	20958	C5*	G	A1002	210.022	105.222	67.498	1.00198.94	A16S
ATOM	20959	C4*	G	A1002	211.472	104.889	67.231	1.00198.94	A16S
ATOM	20960	O4*	G	A1002	211.653	104.555	65.829	1.00198.94	A16S
ATOM	20961	C1*	G	A1002	212.917	105.028	65.383	1.00198.94	A16S
ATOM	20962	N9	G	A1002	212.690	106.075	64.389	1.00198.94	A16S
ATOM	20963	C4	G	A1002	213.612	106.565	63.491	1.00198.94	A16S
ATOM	20964	N3	G	A1002	214.887	106.134	63.344	1.00198.94	A16S
ATOM	20965	C2	G	A1002	215.537	106.817	62.413	1.00198.94	A16S
ATOM	20966	N2	G	A1002	216.818	106.520	62.137	1.00198.94	A16S
ATOM	20967	N1	G	A1002	214.980	107.842	61.684	1.00198.94	A16S
ATOM	20968	C6	G	A1002	213.671	108.304	61.817	1.00198.94	A16S
ATOM	20969	O6	G	A1002	213.270	109.243	61.111	1.00198.94	A16S
ATOM	20970	C5	G	A1002	212.961	107.577	62.814	1.00198.94	A16S
ATOM	20971	N7	G	A1002	211.652	107.708	63.262	1.00198.94	A16S
ATOM	20972	C8	G	A1002	211.533	106.794	64.186	1.00198.94	A16S
ATOM	20973	C2*	G	A1002	213.640	105.611	66.598	1.00198.94	A16S
ATOM	20974	O2*	G	A1002	214.485	104.637	67.185	1.00198.94	A16S
ATOM	20975	C3*	G	A1002	212.466	106.010	67.481	1.00198.94	A16S
ATOM	20976	O3*	G	A1002	212.817	106.169	68.845	1.00198.94	A16S
ATOM	20977	P	G	A1003	213.216	107.630	69.388	1.00198.40	A16S
ATOM	20978	O1P	G	A1003	213.116	107.591	70.869	1.00198.76	A16S
ATOM	20979	O2P	G	A1003	212.428	108.642	68.626	1.00198.76	A16S
ATOM	20980	O5*	G	A1003	214.754	107.781	68.986	1.00198.40	A16S
ATOM	20981	C5*	G	A1003	215.725	106.760	69.329	1.00198.40	A16S
ATOM	20982	C4*	G	A1003	216.931	106.852	68.419	1.00198.40	A16S
ATOM	20983	O4*	G	A1003	216.496	106.648	67.049	1.00198.40	A16S
ATOM	20984	C1*	G	A1003	217.196	107.528	66.186	1.00198.40	A16S
ATOM	20985	N9	G	A1003	216.231	108.460	65.605	1.00198.76	A16S
ATOM	20986	C4	G	A1003	216.413	109.220	64.475	1.00198.76	A16S
ATOM	20987	N3	G	A1003	217.520	109.237	63.707	1.00198.76	A16S
ATOM	20988	C2	G	A1003	217.398	110.062	62.685	1.00198.76	A16S
ATOM	20989	N2	G	A1003	218.418	110.207	61.832	1.00198.76	A16S
ATOM	20990	N1	G	A1003	216.271	110.808	62.430	1.00198.76	A16S
ATOM	20991	C6	G	A1003	215.117	110.810	63.209	1.00198.76	A16S
ATOM	20992	O6	G	A1003	214.156	111.526	62.892	1.00198.76	A16S
ATOM	20993	C5	G	A1003	215.240	109.931	64.317	1.00198.76	A16S
ATOM	20994	N7	G	A1003	214.342	109.632	65.332	1.00198.76	A16S
ATOM	20995	C8	G	A1003	214.970	108.758	66.071	1.00198.76	A16S
ATOM	20996	C2*	G	A1003	218.254	108.251	67.019	1.00198.40	A16S
ATOM	20997	O2*	G	A1003	219.481	107.552	66.950	1.00198.40	A16S
ATOM	20998	C3*	G	A1003	217.630	108.204	68.405	1.00198.40	A16S
ATOM	20999	O3*	G	A1003	218.605	108.321	69.429	1.00198.40	A16S
ATOM	21000	P	G	A1003A	218.768	109.717	70.209	1.00198.40	A16S
ATOM	21001	O1P	G	A1003A	219.426	109.404	71.501	1.00163.65	A16S
ATOM	21002	O2P	G	A1003A	217.458	110.419	70.202	1.00163.65	A16S
ATOM	21003	O5*	G	A1003A	219.776	110.568	69.315	1.00198.40	A16S
ATOM	21004	C5*	G	A1003A	221.180	110.249	69.267	1.00198.40	A16S
ATOM	21005	C4*	G	A1003A	221.798	110.818	68.014	1.00198.40	A16S
ATOM	21006	O4*	G	A1003A	221.005	110.364	66.885	1.00198.40	A16S
ATOM	21007	C1*	G	A1003A	220.937	111.383	65.901	1.00198.40	A16S
ATOM	21008	N9	G	A1003A	219.541	111.786	65.739	1.00163.65	A16S
ATOM	21009	C4	G	A1003A	218.977	112.334	64.607	1.00163.65	A16S
ATOM	21010	N3	G	A1003A	219.610	112.563	63.436	1.00163.65	A16S
ATOM	21011	C2	G	A1003A	218.807	113.106	62.536	1.00163.65	A16S
ATOM	21012	N2	G	A1003A	219.273	113.385	61.309	1.00163.65	A16S
ATOM	21013	N1	G	A1003A	217.491	113.413	62.771	1.00163.65	A16S
ATOM	21014	C6	G	A1003A	216.819	113.192	63.967	1.00163.65	A16S



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ATOM	21015	O6	G	A1003A	215.630	113.513	64.071	1.00163.65	A16S
ATOM	21016	C5	G	A1003A	217.666	112.594	64.940	1.00163.65	A16S
ATOM	21017	N7	G	A1003A	217.401	112.201	66.246	1.00163.65	A16S
ATOM	21018	C8	G	A1003A	218.538	111.725	66.679	1.00163.65	A16S
ATOM	21019	C2*	G	A1003A	221.809	112.544	66.380	1.00198.40	A16S
ATOM	21020	O2*	G	A1003A	223.106	112.441	65.822	1.00198.40	A16S
ATOM	21021	C3*	G	A1003A	221.795	112.337	67.889	1.00198.40	A16S
ATOM	21022	O3*	G	A1003A	222.920	112.958	68.511	1.00198.40	A16S
ATOM	21023	P	A	A1004	222.931	114.557	68.736	1.00172.13	A16S
ATOM	21024	O1P	A	A1004	224.139	115.091	68.053	1.00198.49	A16S
ATOM	21025	O2P	A	A1004	222.734	114.822	70.181	1.00198.49	A16S
ATOM	21026	O5*	A	A1004	221.634	115.078	67.963	1.00172.13	A16S
ATOM	21027	C5*	A	A1004	221.707	116.176	67.031	1.00172.13	A16S
ATOM	21028	C4*	A	A1004	221.267	115.726	65.657	1.00172.13	A16S
ATOM	21029	O4*	A	A1004	219.854	115.379	65.665	1.00172.13	A16S
ATOM	21030	C1*	A	A1004	219.293	115.641	64.388	1.00172.13	A16S
ATOM	21031	N9	A	A1004	218.103	116.492	64.534	1.00198.49	A16S
ATOM	21032	C4	A	A1004	216.966	116.242	65.274	1.00198.49	A16S
ATOM	21033	N3	A	A1004	216.711	115.180	66.058	1.00198.49	A16S
ATOM	21034	C2	A	A1004	215.496	115.274	66.599	1.00198.49	A16S
ATOM	21035	N1	A	A1004	214.575	116.235	66.455	1.00198.49	A16S
ATOM	21036	C6	A	A1004	214.862	117.288	65.660	1.00198.49	A16S
ATOM	21037	N6	A	A1004	213.944	118.245	65.506	1.00198.49	A16S
ATOM	21038	C5	A	A1004	216.119	117.312	65.034	1.00198.49	A16S
ATOM	21039	N7	A	A1004	216.713	118.228	64.182	1.00198.49	A16S
ATOM	21040	C8	A	A1004	217.884	117.703	63.923	1.00198.49	A16S
ATOM	21041	C2*	A	A1004	220.391	116.246	63.507	1.00172.13	A16S
ATOM	21042	O2*	A	A1004	220.940	115.248	62.671	1.00172.13	A16S
ATOM	21043	C3*	A	A1004	221.385	116.755	64.546	1.00172.13	A16S
ATOM	21044	O3*	A	A1004	222.710	116.813	64.040	1.00172.13	A16S
ATOM	21045	P	A	A1005	223.096	117.913	62.934	1.00198.94	A16S
ATOM	21046	O1P	A	A1005	222.752	117.321	61.616	1.00197.87	A16S
ATOM	21047	O2P	A	A1005	224.485	118.369	63.195	1.00197.87	A16S
ATOM	21048	O5*	A	A1005	222.116	119.137	63.219	1.00198.94	A16S
ATOM	21049	C5*	A	A1005	221.116	119.531	62.260	1.00198.94	A16S
ATOM	21050	C4*	A	A1005	221.498	120.846	61.622	1.00198.94	A16S
ATOM	21051	O4*	A	A1005	221.769	121.802	62.679	1.00198.94	A16S
ATOM	21052	C1*	A	A1005	222.798	122.686	62.273	1.00198.94	A16S
ATOM	21053	N9	A	A1005	223.855	122.678	63.290	1.00197.87	A16S
ATOM	21054	C4	A	A1005	224.313	123.771	63.993	1.00197.87	A16S
ATOM	21055	N3	A	A1005	223.896	125.046	63.888	1.00197.87	A16S
ATOM	21056	C2	A	A1005	224.561	125.830	64.734	1.00197.87	A16S
ATOM	21057	N1	A	A1005	225.524	125.511	65.607	1.00197.87	A16S
ATOM	21058	C6	A	A1005	225.923	124.222	65.689	1.00197.87	A16S
ATOM	21059	N6	A	A1005	226.884	123.903	66.560	1.00197.87	A16S
ATOM	21060	C5	A	A1005	225.295	123.289	64.843	1.00197.87	A16S
ATOM	21061	N7	A	A1005	225.460	121.920	64.677	1.00197.87	A16S
ATOM	21062	C8	A	A1005	224.587	121.606	63.749	1.00197.87	A16S
ATOM	21063	C2*	A	A1005	223.241	122.288	60.861	1.00198.94	A16S
ATOM	21064	O2*	A	A1005	222.617	123.144	59.921	1.00198.94	A16S
ATOM	21065	C3*	A	A1005	222.760	120.840	60.763	1.00198.94	A16S
ATOM	21066	O3*	A	A1005	222.453	120.491	59.405	1.00198.94	A16S
ATOM	21067	P	C	A1006	223.426	119.506	58.569	1.00198.94	A16S
ATOM	21068	O1P	C	A1006	223.064	119.659	57.135	1.00198.94	A16S
ATOM	21069	O2P	C	A1006	223.386	118.159	59.186	1.00198.94	A16S
ATOM	21070	O5*	C	A1006	224.895	120.101	58.766	1.00198.94	A16S
ATOM	21071	C5*	C	A1006	225.173	121.502	58.553	1.00198.94	A16S
ATOM	21072	C4*	C	A1006	226.364	121.933	59.382	1.00198.94	A16S
ATOM	21073	O4*	C	A1006	226.213	121.392	60.722	1.00198.94	A16S
ATOM	21074	C1*	C	A1006	227.485	121.061	61.252	1.00198.94	A16S
ATOM	21075	N1	C	A1006	227.486	119.634	61.644	1.00198.94	A16S
ATOM	21076	C6	C	A1006	227.169	118.655	60.741	1.00198.94	A16S
ATOM	21077	C2	C	A1006	227.835	119.291	62.966	1.00198.94	A16S
ATOM	21078	O2	C	A1006	228.094	120.193	63.782	1.00198.94	A16S
ATOM	21079	N3	C	A1006	227.876	117.985	63.319	1.00198.94	A16S
ATOM	21080	C4	C	A1006	227.580	117.040	62.423	1.00198.94	A16S
ATOM	21081	N4	C	A1006	227.651	115.765	62.815	1.00198.94	A16S
ATOM	21082	C5	C	A1006	227.203	117.359	61.084	1.00198.94	A16S
ATOM	21083	C2*	C	A1006	228.545	121.423	60.208	1.00198.94	A16S
ATOM	21084	O2*	C	A1006	229.115	122.678	60.524	1.00198.94	A16S
ATOM	21085	C3*	C	A1006	227.728	121.438	58.919	1.00198.94	A16S
ATOM	21086	O3*	C	A1006	228.292	122.325	57.950	1.00198.94	A16S
ATOM	21087	P	C	A1007	229.459	121.806	56.965	1.00198.94	A16S
ATOM	21088	O1P	C	A1007	229.721	122.906	55.993	1.00159.65	A16S
ATOM	21089	O2P	C	A1007	229.091	120.453	56.459	1.00159.65	A16S
ATOM	21090	O5*	C	A1007	230.740	121.663	57.906	1.00198.94	A16S
ATOM	21091	C5*	C	A1007	231.568	122.807	58.219	1.00198.94	A16S



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ATOM	21092	C4*	C	A1007	232.806	122.374	58.975	1.00198.94	A16S
ATOM	21093	O4*	C	A1007	232.405	121.757	60.226	1.00198.94	A16S
ATOM	21094	C1*	C	A1007	233.293	120.698	60.544	1.00198.94	A16S
ATOM	21095	N1	C	A1007	232.522	119.439	60.614	1.00159.65	A16S
ATOM	21096	C6	C	A1007	231.189	119.410	60.307	1.00159.65	A16S
ATOM	21097	C2	C	A1007	233.185	118.258	60.998	1.00159.65	A16S
ATOM	21098	O2	C	A1007	234.397	118.306	61.279	1.00159.65	A16S
ATOM	21099	N3	C	A1007	232.486	117.098	61.054	1.00159.65	A16S
ATOM	21100	C4	C	A1007	231.186	117.085	60.749	1.00159.65	A16S
ATOM	21101	N4	C	A1007	230.541	115.916	60.819	1.00159.65	A16S
ATOM	21102	C5	C	A1007	230.490	118.268	60.359	1.00159.65	A16S
ATOM	21103	C2*	C	A1007	234.382	120.658	59.470	1.00198.94	A16S
ATOM	21104	O2*	C	A1007	235.524	121.357	59.920	1.00198.94	A16S
ATOM	21105	C3*	C	A1007	233.687	121.334	58.295	1.00198.94	A16S
ATOM	21106	O3*	C	A1007	234.627	121.920	57.399	1.00198.94	A16S
ATOM	21107	P	C	A1008	235.382	120.996	56.319	1.00190.60	A16S
ATOM	21108	O1P	C	A1008	236.213	121.886	55.464	1.00188.87	A16S
ATOM	21109	O2P	C	A1008	234.386	120.092	55.688	1.00188.87	A16S
ATOM	21110	O5*	C	A1008	236.358	120.094	57.193	1.00190.60	A16S
ATOM	21111	C5*	C	A1008	237.569	120.634	57.741	1.00190.60	A16S
ATOM	21112	C4*	C	A1008	238.410	119.523	58.307	1.00190.60	A16S
ATOM	21113	O4*	C	A1008	237.668	118.870	59.366	1.00190.60	A16S
ATOM	21114	C1*	C	A1008	237.954	117.482	59.364	1.00190.60	A16S
ATOM	21115	N1	C	A1008	236.686	116.733	59.276	1.00188.87	A16S
ATOM	21116	C6	C	A1008	235.735	117.063	58.349	1.00188.87	A16S
ATOM	21117	C2	C	A1008	236.464	115.670	60.170	1.00188.87	A16S
ATOM	21118	O2	C	A1008	237.345	115.377	60.997	1.00188.87	A16S
ATOM	21119	N3	C	A1008	235.299	114.989	60.108	1.00188.87	A16S
ATOM	21120	C4	C	A1008	234.376	115.325	59.204	1.00188.87	A16S
ATOM	21121	N4	C	A1008	233.238	114.626	59.186	1.00188.87	A16S
ATOM	21122	C5	C	A1008	234.578	116.393	58.278	1.00188.87	A16S
ATOM	21123	C2*	C	A1008	238.947	117.198	58.235	1.00190.60	A16S
ATOM	21124	O2*	C	A1008	240.249	117.112	58.777	1.00190.60	A16S
ATOM	21125	C3*	C	A1008	238.751	118.410	57.328	1.00190.60	A16S
ATOM	21126	O3*	C	A1008	239.919	118.736	56.578	1.00190.60	A16S
ATOM	21127	P	G	A1009	240.493	117.692	55.496	1.00150.68	A16S
ATOM	21128	O1P	G	A1009	241.528	118.394	54.689	1.00197.47	A16S
ATOM	21129	O2P	G	A1009	239.344	117.041	54.813	1.00197.47	A16S
ATOM	21130	O5*	G	A1009	241.233	116.600	56.386	1.00150.68	A16S
ATOM	21131	C5*	G	A1009	241.371	115.246	55.939	1.00150.68	A16S
ATOM	21132	C4*	G	A1009	241.496	114.328	57.125	1.00150.68	A16S
ATOM	21133	O4*	G	A1009	240.321	114.452	57.965	1.00150.68	A16S
ATOM	21134	C1*	G	A1009	240.005	113.192	58.533	1.00150.68	A16S
ATOM	21135	N9	G	A1009	238.640	112.840	58.147	1.00197.47	A16S
ATOM	21136	C4	G	A1009	238.013	111.629	58.350	1.00197.47	A16S
ATOM	21137	N3	G	A1009	238.544	110.554	58.972	1.00197.47	A16S
ATOM	21138	C2	G	A1009	237.705	109.531	58.996	1.00197.47	A16S
ATOM	21139	N2	G	A1009	238.068	108.384	59.587	1.00197.47	A16S
ATOM	21140	N1	G	A1009	236.447	109.555	58.445	1.00197.47	A16S
ATOM	21141	C6	G	A1009	235.877	110.647	57.798	1.00197.47	A16S
ATOM	21142	O6	G	A1009	234.730	110.558	57.330	1.00197.47	A16S
ATOM	21143	C5	G	A1009	236.766	111.761	57.776	1.00197.47	A16S
ATOM	21144	N7	G	A1009	236.600	113.035	57.247	1.00197.47	A16S
ATOM	21145	C8	G	A1009	237.731	113.639	57.493	1.00197.47	A16S
ATOM	21146	C2*	G	A1009	241.053	112.183	58.050	1.00150.68	A16S
ATOM	21147	O2*	G	A1009	242.039	112.016	59.049	1.00150.68	A16S
ATOM	21148	C3*	G	A1009	241.583	112.853	56.786	1.00150.68	A16S
ATOM	21149	O3*	G	A1009	242.932	112.500	56.498	1.00150.68	A16S
ATOM	21150	P	G	A1010	243.270	111.613	55.200	1.00129.38	A16S
ATOM	21151	O1P	G	A1010	244.726	111.760	54.931	1.00170.15	A16S
ATOM	21152	O2P	G	A1010	242.294	111.954	54.134	1.00170.15	A16S
ATOM	21153	O5*	G	A1010	243.002	110.118	55.684	1.00129.38	A16S
ATOM	21154	C5*	G	A1010	243.813	109.535	56.711	1.00129.38	A16S
ATOM	21155	C4*	G	A1010	243.201	108.251	57.206	1.00129.38	A16S
ATOM	21156	O4*	G	A1010	241.900	108.518	57.789	1.00129.38	A16S
ATOM	21157	C1*	G	A1010	241.074	107.374	57.641	1.00129.38	A16S
ATOM	21158	N9	G	A1010	239.845	107.740	56.943	1.00170.15	A16S
ATOM	21159	C4	G	A1010	238.700	106.977	56.871	1.00170.15	A16S
ATOM	21160	N3	G	A1010	238.514	105.766	57.447	1.00170.15	A16S
ATOM	21161	C2	G	A1010	237.312	105.277	57.195	1.00170.15	A16S
ATOM	21162	N2	G	A1010	236.961	104.082	57.692	1.00170.15	A16S
ATOM	21163	N1	G	A1010	236.365	105.925	56.438	1.00170.15	A16S
ATOM	21164	C6	G	A1010	236.532	107.170	55.836	1.00170.15	A16S
ATOM	21165	O6	G	A1010	235.610	107.666	55.173	1.00170.15	A16S
ATOM	21166	C5	G	A1010	237.822	107.706	56.099	1.00170.15	A16S
ATOM	21167	N7	G	A1010	238.398	108.905	55.697	1.00170.15	A16S
ATOM	21168	C8	G	A1010	239.594	108.883	56.223	1.00170.15	A16S



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ATOM	21169	C2* G	A1010	241.866	106.318	56.869	1.00129.38	A16S
ATOM	21170	O2* G	A1010	242.393	105.379	57.786	1.00129.38	A16S
ATOM	21171	C3* G	A1010	242.930	107.166	56.176	1.00129.38	A16S
ATOM	21172	O3* G	A1010	244.092	106.405	55.860	1.00129.38	A16S
ATOM	21173	P G	A1011	244.113	105.498	54.530	1.00135.74	A16S
ATOM	21174	O1P G	A1011	245.437	104.829	54.462	1.00147.27	A16S
ATOM	21175	O2P G	A1011	243.653	106.334	53.394	1.00147.27	A16S
ATOM	21176	O5* G	A1011	243.009	104.381	54.803	1.00135.74	A16S
ATOM	21177	C5* G	A1011	243.215	103.367	55.809	1.00135.74	A16S
ATOM	21178	C4* G	A1011	242.122	102.324	55.740	1.00135.74	A16S
ATOM	21179	O4* G	A1011	240.856	102.904	56.145	1.00135.74	A16S
ATOM	21180	C1* G	A1011	239.804	102.344	55.373	1.00135.74	A16S
ATOM	21181	N9 G	A1011	239.146	103.426	54.640	1.00147.27	A16S
ATOM	21182	C4 G	A1011	238.006	103.323	53.874	1.00147.27	A16S
ATOM	21183	N3 G	A1011	237.291	102.196	53.664	1.00147.27	A16S
ATOM	21184	C2 G	A1011	236.254	102.408	52.872	1.00147.27	A16S
ATOM	21185	N2 G	A1011	235.441	101.386	52.557	1.00147.27	A16S
ATOM	21186	N1 G	A1011	235.939	103.635	52.330	1.00147.27	A16S
ATOM	21187	C6 G	A1011	236.660	104.811	52.531	1.00147.27	A16S
ATOM	21188	O6 G	A1011	236.290	105.867	51.991	1.00147.27	A16S
ATOM	21189	C5 G	A1011	237.781	104.593	53.379	1.00147.27	A16S
ATOM	21190	N7 G	A1011	238.754	105.476	53.827	1.00147.27	A16S
ATOM	21191	C8 G	A1011	239.540	104.743	54.570	1.00147.27	A16S
ATOM	21192	C2* G	A1011	240.414	101.286	54.449	1.00135.74	A16S
ATOM	21193	O2* G	A1011	240.283	100.000	55.024	1.00135.74	A16S
ATOM	21194	C3* G	A1011	241.860	101.757	54.356	1.00135.74	A16S
ATOM	21195	O3* G	A1011	242.773	100.720	54.027	1.00135.74	A16S
ATOM	21196	P U	A1012	243.505	100.737	52.595	1.00171.95	A16S
ATOM	21197	O1P U	A1012	244.537	99.661	52.618	1.00103.49	A16S
ATOM	21198	O2P U	A1012	243.911	102.141	52.283	1.00103.49	A16S
ATOM	21199	O5* U	A1012	242.347	100.319	51.580	1.00171.95	A16S
ATOM	21200	C5* U	A1012	241.817	98.975	51.569	1.00171.95	A16S
ATOM	21201	C4* U	A1012	240.675	98.860	50.581	1.00171.95	A16S
ATOM	21202	O4* U	A1012	239.524	99.605	51.066	1.00171.95	A16S
ATOM	21203	C1* U	A1012	238.811	100.151	49.965	1.00171.95	A16S
ATOM	21204	N1 U	A1012	238.856	101.622	50.043	1.00103.49	A16S
ATOM	21205	C6 U	A1012	239.871	102.284	50.702	1.00103.49	A16S
ATOM	21206	C2 U	A1012	237.852	102.331	49.402	1.00103.49	A16S
ATOM	21207	O2 U	A1012	236.927	101.789	48.824	1.00103.49	A16S
ATOM	21208	N3 U	A1012	237.974	103.701	49.460	1.00103.49	A16S
ATOM	21209	C4 U	A1012	238.972	104.424	50.086	1.00103.49	A16S
ATOM	21210	O4 U	A1012	238.947	105.659	50.047	1.00103.49	A16S
ATOM	21211	C5 U	A1012	239.962	103.623	50.741	1.00103.49	A16S
ATOM	21212	C2* U	A1012	239.503	99.675	48.689	1.00171.95	A16S
ATOM	21213	O2* U	A1012	238.883	98.501	48.203	1.00171.95	A16S
ATOM	21214	C3* U	A1012	240.917	99.424	49.188	1.00171.95	A16S
ATOM	21215	O3* U	A1012	241.640	98.566	48.321	1.00171.95	A16S
ATOM	21216	P G	A1013	242.491	99.205	47.112	1.00141.48	A16S
ATOM	21217	O1P G	A1013	243.071	98.066	46.353	1.00132.62	A16S
ATOM	21218	O2P G	A1013	243.390	100.269	47.644	1.00132.62	A16S
ATOM	21219	O5* G	A1013	241.391	99.918	46.201	1.00141.48	A16S
ATOM	21220	C5* G	A1013	240.453	99.140	45.427	1.00141.48	A16S
ATOM	21221	C4* G	A1013	239.570	100.043	44.590	1.00141.48	A16S
ATOM	21222	O4* G	A1013	238.764	100.880	45.459	1.00141.48	A16S
ATOM	21223	C1* G	A1013	238.569	102.147	44.857	1.00141.48	A16S
ATOM	21224	N9 G	A1013	239.188	103.160	45.703	1.00132.62	A16S
ATOM	21225	C4 G	A1013	238.791	104.468	45.832	1.00132.62	A16S
ATOM	21226	N3 G	A1013	237.733	105.037	45.218	1.00132.62	A16S
ATOM	21227	C2 G	A1013	237.616	106.320	45.524	1.00132.62	A16S
ATOM	21228	N2 G	A1013	236.612	107.040	45.003	1.00132.62	A16S
ATOM	21229	N1 G	A1013	238.472	106.991	46.365	1.00132.62	A16S
ATOM	21230	C6 G	A1013	239.568	106.426	47.009	1.00132.62	A16S
ATOM	21231	O6 G	A1013	240.278	107.124	47.747	1.00132.62	A16S
ATOM	21232	C5 G	A1013	239.703	105.045	46.691	1.00132.62	A16S
ATOM	21233	N7 G	A1013	240.644	104.114	47.108	1.00132.62	A16S
ATOM	21234	C8 G	A1013	240.297	103.011	46.503	1.00132.62	A16S
ATOM	21235	C2* G	A1013	239.231	102.113	43.481	1.00141.48	A16S
ATOM	21236	O2* G	A1013	238.269	101.773	42.507	1.00141.48	A16S
ATOM	21237	C3* G	A1013	240.279	101.026	43.673	1.00141.48	A16S
ATOM	21238	O3* G	A1013	240.676	100.443	42.441	1.00141.48	A16S
ATOM	21239	P A	A1014	241.907	101.080	41.627	1.00115.23	A16S
ATOM	21240	O1P A	A1014	242.189	100.176	40.490	1.00110.22	A16S
ATOM	21241	O2P A	A1014	242.989	101.407	42.583	1.00110.22	A16S
ATOM	21242	O5* A	A1014	241.328	102.455	41.066	1.00115.23	A16S
ATOM	21243	C5* A	A1014	242.164	103.368	40.325	1.00115.23	A16S
ATOM	21244	C4* A	A1014	241.336	104.134	39.317	1.00115.23	A16S
ATOM	21245	O4* A	A1014	240.787	103.205	38.350	1.00115.23	A16S



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ATOM	21246	C1*	A	A1014	239.462	103.577	38.020	1.00115.23	A16S
ATOM	21247	N9	A	A1014	238.593	102.465	38.403	1.00110.22	A16S
ATOM	21248	C4	A	A1014	237.484	101.997	37.737	1.00110.22	A16S
ATOM	21249	N3	A	A1014	236.936	102.488	36.612	1.00110.22	A16S
ATOM	21250	C2	A	A1014	235.879	101.763	36.251	1.00110.22	A16S
ATOM	21251	N1	A	A1014	235.353	100.679	36.836	1.00110.22	A16S
ATOM	21252	C6	A	A1014	235.930	100.209	37.963	1.00110.22	A16S
ATOM	21253	N6	A	A1014	235.416	99.120	38.544	1.00110.22	A16S
ATOM	21254	C5	A	A1014	237.050	100.897	38.456	1.00110.22	A16S
ATOM	21255	N7	A	A1014	237.852	100.691	39.569	1.00110.22	A16S
ATOM	21256	C8	A	A1014	238.744	101.646	39.496	1.00110.22	A16S
ATOM	21257	C2*	A	A1014	239.156	104.900	38.724	1.00115.23	A16S
ATOM	21258	O2*	A	A1014	239.401	105.964	37.827	1.00115.23	A16S
ATOM	21259	C3*	A	A1014	240.135	104.866	39.895	1.00115.23	A16S
ATOM	21260	O3*	A	A1014	240.518	106.170	40.326	1.00115.23	A16S
ATOM	21261	P	A	A1015	240.329	106.592	41.867	1.00120.43	A16S
ATOM	21262	O1P	A	A1015	241.433	107.529	42.234	1.00 91.63	A16S
ATOM	21263	O2P	A	A1015	240.140	105.328	42.644	1.00 91.63	A16S
ATOM	21264	O5*	A	A1015	238.970	107.429	41.873	1.00120.43	A16S
ATOM	21265	C5*	A	A1015	238.826	108.625	41.068	1.00120.43	A16S
ATOM	21266	C4*	A	A1015	237.489	108.620	40.358	1.00120.43	A16S
ATOM	21267	O4*	A	A1015	237.386	107.398	39.587	1.00120.43	A16S
ATOM	21268	C1*	A	A1015	236.057	106.915	39.626	1.00120.43	A16S
ATOM	21269	N9	A	A1015	236.078	105.577	40.214	1.00 91.63	A16S
ATOM	21270	C4	A	A1015	235.176	104.567	39.974	1.00 91.63	A16S
ATOM	21271	N3	A	A1015	234.080	104.617	39.196	1.00 91.63	A16S
ATOM	21272	C2	A	A1015	233.459	103.438	39.180	1.00 91.63	A16S
ATOM	21273	N1	A	A1015	233.787	102.296	39.805	1.00 91.63	A16S
ATOM	21274	C6	A	A1015	234.894	102.279	40.579	1.00 91.63	A16S
ATOM	21275	N6	A	A1015	235.224	101.139	41.194	1.00 91.63	A16S
ATOM	21276	C5	A	A1015	235.638	103.473	40.685	1.00 91.63	A16S
ATOM	21277	N7	A	A1015	236.790	103.797	41.388	1.00 91.63	A16S
ATOM	21278	C8	A	A1015	237.003	105.054	41.083	1.00 91.63	A16S
ATOM	21279	C2*	A	A1015	235.209	107.920	40.401	1.00120.43	A16S
ATOM	21280	O2*	A	A1015	234.594	108.805	39.486	1.00120.43	A16S
ATOM	21281	C3*	A	A1015	236.259	108.613	41.256	1.00120.43	A16S
ATOM	21282	O3*	A	A1015	235.850	109.934	41.569	1.00120.43	A16S
ATOM	21283	P	A	A1016	235.054	110.217	42.935	1.00119.04	A16S
ATOM	21284	O1P	A	A1016	234.838	111.690	42.986	1.00 83.02	A16S
ATOM	21285	O2P	A	A1016	235.783	109.540	44.038	1.00 83.02	A16S
ATOM	21286	O5*	A	A1016	233.643	109.489	42.756	1.00119.04	A16S
ATOM	21287	C5*	A	A1016	232.517	110.170	42.149	1.00119.04	A16S
ATOM	21288	C4*	A	A1016	231.395	109.191	41.889	1.00119.04	A16S
ATOM	21289	O4*	A	A1016	231.964	108.047	41.207	1.00119.04	A16S
ATOM	21290	C1*	A	A1016	231.349	106.860	41.660	1.00119.04	A16S
ATOM	21291	N9	A	A1016	232.372	106.050	42.311	1.00 83.02	A16S
ATOM	21292	C4	A	A1016	232.311	104.696	42.510	1.00 83.02	A16S
ATOM	21293	N3	A	A1016	231.324	103.866	42.140	1.00 83.02	A16S
ATOM	21294	C2	A	A1016	231.601	102.615	42.502	1.00 83.02	A16S
ATOM	21295	N1	A	A1016	232.670	102.138	43.146	1.00 83.02	A16S
ATOM	21296	C6	A	A1016	233.644	103.003	43.508	1.00 83.02	A16S
ATOM	21297	N6	A	A1016	234.710	102.528	44.160	1.00 83.02	A16S
ATOM	21298	C5	A	A1016	233.472	104.361	43.175	1.00 83.02	A16S
ATOM	21299	N7	A	A1016	234.260	105.485	43.384	1.00 83.02	A16S
ATOM	21300	C8	A	A1016	233.565	106.458	42.856	1.00 83.02	A16S
ATOM	21301	C2*	A	A1016	230.233	107.246	42.626	1.00119.04	A16S
ATOM	21302	O2*	A	A1016	229.002	107.283	41.931	1.00119.04	A16S
ATOM	21303	C3*	A	A1016	230.710	108.606	43.117	1.00119.04	A16S
ATOM	21304	O3*	A	A1016	229.617	109.412	43.545	1.00119.04	A16S
ATOM	21305	P	G	A1017	229.309	109.576	45.116	1.00108.75	A16S
ATOM	21306	O1P	G	A1017	228.026	110.325	45.227	1.00100.77	A16S
ATOM	21307	O2P	G	A1017	230.527	110.118	45.765	1.00100.77	A16S
ATOM	21308	O5*	G	A1017	229.112	108.083	45.649	1.00108.75	A16S
ATOM	21309	C5*	G	A1017	228.039	107.254	45.158	1.00108.75	A16S
ATOM	21310	C4*	G	A1017	228.315	105.793	45.449	1.00108.75	A16S
ATOM	21311	O4*	G	A1017	229.593	105.438	44.870	1.00108.75	A16S
ATOM	21312	C1*	G	A1017	230.245	104.490	45.692	1.00108.75	A16S
ATOM	21313	N9	G	A1017	231.503	105.067	46.154	1.00100.77	A16S
ATOM	21314	C4	G	A1017	232.570	104.359	46.644	1.00100.77	A16S
ATOM	21315	N3	G	A1017	232.629	103.016	46.779	1.00100.77	A16S
ATOM	21316	C2	G	A1017	233.783	102.620	47.279	1.00100.77	A16S
ATOM	21317	N2	G	A1017	234.002	101.310	47.491	1.00100.77	A16S
ATOM	21318	N1	G	A1017	234.806	103.477	47.613	1.00100.77	A16S
ATOM	21319	C6	G	A1017	234.766	104.864	47.487	1.00100.77	A16S
ATOM	21320	O6	G	A1017	235.744	105.541	47.826	1.00100.77	A16S
ATOM	21321	C5	G	A1017	233.526	105.303	46.955	1.00100.77	A16S
ATOM	21322	N7	G	A1017	233.066	106.585	46.674	1.00100.77	A16S



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ATOM	21323	C8	G	A1017	231.863	106.397	46.199	1.00100.77	A16S
ATOM	21324	C2*	G	A1017	229.312	104.148	46.851	1.00108.75	A16S
ATOM	21325	O2*	G	A1017	228.606	102.960	46.553	1.00108.75	A16S
ATOM	21326	C3*	G	A1017	228.433	105.391	46.913	1.00108.75	A16S
ATOM	21327	O3*	G	A1017	227.162	105.111	47.493	1.00108.75	A16S
ATOM	21328	P	C	A1018	226.962	105.258	49.083	1.00129.79	A16S
ATOM	21329	O1P	C	A1018	225.537	104.940	49.369	1.00105.29	A16S
ATOM	21330	O2P	C	A1018	227.534	106.559	49.529	1.00105.29	A16S
ATOM	21331	O5*	C	A1018	227.863	104.094	49.685	1.00129.79	A16S
ATOM	21332	C5*	C	A1018	227.592	102.717	49.378	1.00129.79	A16S
ATOM	21333	C4*	C	A1018	228.676	101.840	49.950	1.00129.79	A16S
ATOM	21334	O4*	C	A1018	229.935	102.151	49.300	1.00129.79	A16S
ATOM	21335	C1*	C	A1018	230.995	102.053	50.239	1.00129.79	A16S
ATOM	21336	N1	C	A1018	231.648	103.371	50.367	1.00105.29	A16S
ATOM	21337	C6	C	A1018	230.933	104.535	50.245	1.00105.29	A16S
ATOM	21338	C2	C	A1018	233.027	103.414	50.620	1.00105.29	A16S
ATOM	21339	O2	C	A1018	233.651	102.343	50.742	1.00105.29	A16S
ATOM	21340	N3	C	A1018	233.644	104.620	50.729	1.00105.29	A16S
ATOM	21341	C4	C	A1018	232.939	105.749	50.595	1.00105.29	A16S
ATOM	21342	N4	C	A1018	233.594	106.914	50.692	1.00105.29	A16S
ATOM	21343	C5	C	A1018	231.532	105.734	50.351	1.00105.29	A16S
ATOM	21344	C2*	C	A1018	230.402	101.581	51.563	1.00129.79	A16S
ATOM	21345	O2*	C	A1018	230.521	100.175	51.651	1.00129.79	A16S
ATOM	21346	C3*	C	A1018	228.961	102.048	51.428	1.00129.79	A16S
ATOM	21347	O3*	C	A1018	228.076	101.328	52.265	1.00129.79	A16S
ATOM	21348	P	C	A1019	227.832	101.834	53.769	1.00192.86	A16S
ATOM	21349	O1P	C	A1019	226.734	100.992	54.300	1.00119.64	A16S
ATOM	21350	O2P	C	A1019	227.700	103.316	53.784	1.00119.64	A16S
ATOM	21351	O5*	C	A1019	229.187	101.465	54.522	1.00192.86	A16S
ATOM	21352	C5*	C	A1019	229.598	100.093	54.677	1.00192.86	A16S
ATOM	21353	C4*	C	A1019	230.917	100.016	55.413	1.00192.86	A16S
ATOM	21354	O4*	C	A1019	231.966	100.608	54.603	1.00192.86	A16S
ATOM	21355	C1*	C	A1019	232.911	101.254	55.442	1.00192.86	A16S
ATOM	21356	N1	C	A1019	232.940	102.692	55.114	1.00119.64	A16S
ATOM	21357	C6	C	A1019	231.818	103.338	54.668	1.00119.64	A16S
ATOM	21358	C2	C	A1019	234.141	103.400	55.290	1.00119.64	A16S
ATOM	21359	O2	C	A1019	235.155	102.791	55.683	1.00119.64	A16S
ATOM	21360	N3	C	A1019	234.166	104.728	55.030	1.00119.64	A16S
ATOM	21361	C4	C	A1019	233.061	105.349	54.611	1.00119.64	A16S
ATOM	21362	N4	C	A1019	233.134	106.665	54.383	1.00119.64	A16S
ATOM	21363	C5	C	A1019	231.832	104.652	54.411	1.00119.64	A16S
ATOM	21364	C2*	C	A1019	232.479	101.028	56.890	1.00192.86	A16S
ATOM	21365	O2*	C	A1019	233.176	99.927	57.437	1.00192.86	A16S
ATOM	21366	C3*	C	A1019	230.986	100.775	56.728	1.00192.86	A16S
ATOM	21367	O3*	C	A1019	230.444	100.045	57.815	1.00192.86	A16S
ATOM	21368	P	U	A1020	229.741	100.838	59.022	1.00198.53	A16S
ATOM	21369	O1P	U	A1020	229.437	99.824	60.063	1.00167.01	A16S
ATOM	21370	O2P	U	A1020	228.641	101.667	58.463	1.00167.01	A16S
ATOM	21371	O5*	U	A1020	230.883	101.817	59.562	1.00198.53	A16S
ATOM	21372	C5*	U	A1020	232.122	101.288	60.080	1.00198.53	A16S
ATOM	21373	C4*	U	A1020	233.162	102.381	60.234	1.00198.53	A16S
ATOM	21374	O4*	U	A1020	233.360	103.057	58.963	1.00198.53	A16S
ATOM	21375	C1*	U	A1020	233.751	104.401	59.195	1.00198.53	A16S
ATOM	21376	N1	U	A1020	232.819	105.311	58.504	1.00167.01	A16S
ATOM	21377	C6	U	A1020	231.509	104.957	58.256	1.00167.01	A16S
ATOM	21378	C2	U	A1020	233.302	106.564	58.121	1.00167.01	A16S
ATOM	21379	O2	U	A1020	234.457	106.920	58.297	1.00167.01	A16S
ATOM	21380	N3	U	A1020	232.377	107.385	57.523	1.00167.01	A16S
ATOM	21381	C4	U	A1020	231.052	107.098	57.267	1.00167.01	A16S
ATOM	21382	O4	U	A1020	230.330	107.969	56.777	1.00167.01	A16S
ATOM	21383	C5	U	A1020	230.634	105.785	57.668	1.00167.01	A16S
ATOM	21384	C2*	U	A1020	233.786	104.626	60.709	1.00198.53	A16S
ATOM	21385	O2*	U	A1020	235.120	104.521	61.166	1.00198.53	A16S
ATOM	21386	C3*	U	A1020	232.883	103.507	61.223	1.00198.53	A16S
ATOM	21387	O3*	U	A1020	233.207	103.138	62.569	1.00198.53	A16S
ATOM	21388	P	G	A1021	232.776	104.096	63.796	1.00180.42	A16S
ATOM	21389	O1P	G	A1021	232.767	103.259	65.024	1.00198.82	A16S
ATOM	21390	O2P	G	A1021	231.561	104.871	63.432	1.00198.82	A16S
ATOM	21391	O5*	G	A1021	233.980	105.130	63.917	1.00180.42	A16S
ATOM	21392	C5*	G	A1021	235.267	104.704	64.395	1.00180.42	A16S
ATOM	21393	C4*	G	A1021	236.245	105.854	64.381	1.00180.42	A16S
ATOM	21394	O4*	G	A1021	236.519	106.248	63.011	1.00180.42	A16S
ATOM	21395	C1*	G	A1021	236.742	107.648	62.952	1.00180.42	A16S
ATOM	21396	N9	G	A1021	235.738	108.251	62.075	1.00198.82	A16S
ATOM	21397	C4	G	A1021	235.700	109.566	61.663	1.00198.82	A16S
ATOM	21398	N3	G	A1021	236.600	110.525	61.979	1.00198.82	A16S
ATOM	21399	C2	G	A1021	236.284	111.696	61.449	1.00198.82	A16S



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ATOM	21400	N2	G	A1021	237.073	112.760	61.664	1.00198.82	A16S
ATOM	21401	N1	G	A1021	235.171	111.909	60.672	1.00198.82	A16S
ATOM	21402	C6	G	A1021	234.232	110.937	60.332	1.00198.82	A16S
ATOM	21403	O6	G	A1021	233.264	111.236	59.619	1.00198.82	A16S
ATOM	21404	C5	G	A1021	234.561	109.674	60.893	1.00198.82	A16S
ATOM	21405	N7	G	A1021	233.907	108.453	60.806	1.00198.82	A16S
ATOM	21406	C8	G	A1021	234.640	107.640	61.517	1.00198.82	A16S
ATOM	21407	C2*	G	A1021	236.649	108.194	64.378	1.00180.42	A16S
ATOM	21408	O2*	G	A1021	237.949	108.306	64.927	1.00180.42	A16S
ATOM	21409	C3*	G	A1021	235.787	107.136	65.061	1.00180.42	A16S
ATOM	21410	O3*	G	A1021	235.966	107.107	66.476	1.00180.42	A16S
ATOM	21411	P	G	A1022	234.926	107.888	67.431	1.00198.94	A16S
ATOM	21412	O1P	G	A1022	235.343	107.635	68.834	1.00198.94	A16S
ATOM	21413	O2P	G	A1022	233.540	107.542	67.005	1.00198.94	A16S
ATOM	21414	O5*	G	A1022	235.181	109.432	67.114	1.00198.94	A16S
ATOM	21415	C5*	G	A1022	236.515	109.996	67.157	1.00198.94	A16S
ATOM	21416	C4*	G	A1022	236.561	111.307	66.400	1.00198.94	A16S
ATOM	21417	O4*	G	A1022	236.168	111.079	65.020	1.00198.94	A16S
ATOM	21418	C1*	G	A1022	235.390	112.171	64.547	1.00198.94	A16S
ATOM	21419	N9	G	A1022	234.052	111.673	64.219	1.00198.94	A16S
ATOM	21420	C4	G	A1022	232.934	112.426	63.909	1.00198.94	A16S
ATOM	21421	N3	G	A1022	232.873	113.775	63.837	1.00198.94	A16S
ATOM	21422	C2	G	A1022	231.655	114.198	63.535	1.00198.94	A16S
ATOM	21423	N2	G	A1022	231.405	115.503	63.426	1.00198.94	A16S
ATOM	21424	N1	G	A1022	230.585	113.369	63.318	1.00198.94	A16S
ATOM	21425	C6	G	A1022	230.622	111.980	63.383	1.00198.94	A16S
ATOM	21426	O6	G	A1022	229.595	111.325	63.169	1.00198.94	A16S
ATOM	21427	C5	G	A1022	231.921	111.508	63.708	1.00198.94	A16S
ATOM	21428	N7	G	A1022	232.388	110.210	63.875	1.00198.94	A16S
ATOM	21429	C8	G	A1022	233.651	110.355	64.172	1.00198.94	A16S
ATOM	21430	C2*	G	A1022	235.375	113.230	65.650	1.00198.94	A16S
ATOM	21431	O2*	G	A1022	236.409	114.168	65.412	1.00198.94	A16S
ATOM	21432	C3*	G	A1022	235.604	112.380	66.894	1.00198.94	A16S
ATOM	21433	O3*	G	A1022	236.148	113.133	67.965	1.00198.94	A16S
ATOM	21434	P	G	A1023	235.172	113.701	69.110	1.00198.54	A16S
ATOM	21435	O1P	G	A1023	235.248	112.750	70.249	1.00198.94	A16S
ATOM	21436	O2P	G	A1023	233.846	114.015	68.505	1.00198.94	A16S
ATOM	21437	O5*	G	A1023	235.869	115.063	69.553	1.00198.54	A16S
ATOM	21438	C5*	G	A1023	235.119	116.286	69.634	1.00198.54	A16S
ATOM	21439	C4*	G	A1023	235.875	117.411	68.969	1.00198.54	A16S
ATOM	21440	O4*	G	A1023	236.186	117.047	67.596	1.00198.54	A16S
ATOM	21441	C1*	G	A1023	235.953	118.153	66.733	1.00198.54	A16S
ATOM	21442	N9	G	A1023	234.764	117.840	65.937	1.00198.94	A16S
ATOM	21443	C4	G	A1023	233.980	118.730	65.223	1.00198.94	A16S
ATOM	21444	N3	G	A1023	234.207	120.057	65.077	1.00198.94	A16S
ATOM	21445	C2	G	A1023	233.259	120.646	64.364	1.00198.94	A16S
ATOM	21446	N2	G	A1023	233.332	121.962	64.111	1.00198.94	A16S
ATOM	21447	N1	G	A1023	232.170	119.990	63.845	1.00198.94	A16S
ATOM	21448	C6	G	A1023	231.911	118.629	63.987	1.00198.94	A16S
ATOM	21449	O6	G	A1023	230.885	118.141	63.494	1.00198.94	A16S
ATOM	21450	C5	G	A1023	232.930	117.978	64.735	1.00198.94	A16S
ATOM	21451	N7	G	A1023	233.069	116.643	65.095	1.00198.94	A16S
ATOM	21452	C8	G	A1023	234.171	116.606	65.794	1.00198.94	A16S
ATOM	21453	C2*	G	A1023	235.696	119.364	67.633	1.00198.54	A16S
ATOM	21454	O2*	G	A1023	236.906	120.044	67.912	1.00198.54	A16S
ATOM	21455	C3*	G	A1023	235.076	118.695	68.850	1.00198.54	A16S
ATOM	21456	O3*	G	A1023	235.112	119.470	70.035	1.00198.54	A16S
ATOM	21457	P	G	A1024	233.802	119.535	70.965	1.00198.94	A16S
ATOM	21458	O1P	G	A1024	233.849	120.810	71.728	1.00198.94	A16S
ATOM	21459	O2P	G	A1024	233.702	118.243	71.696	1.00198.94	A16S
ATOM	21460	O5*	G	A1024	232.588	119.605	69.930	1.00198.94	A16S
ATOM	21461	C5*	G	A1024	232.288	120.815	69.196	1.00198.94	A16S
ATOM	21462	C4*	G	A1024	230.965	120.676	68.469	1.00198.94	A16S
ATOM	21463	O4*	G	A1024	231.090	119.722	67.380	1.00198.94	A16S
ATOM	21464	C1*	G	A1024	229.885	118.980	67.244	1.00198.94	A16S
ATOM	21465	N9	G	A1024	230.195	117.556	67.397	1.00198.94	A16S
ATOM	21466	C4	G	A1024	229.345	116.490	67.170	1.00198.94	A16S
ATOM	21467	N3	G	A1024	228.056	116.568	66.776	1.00198.94	A16S
ATOM	21468	C2	G	A1024	227.505	115.370	66.647	1.00198.94	A16S
ATOM	21469	N2	G	A1024	226.226	115.259	66.266	1.00198.94	A16S
ATOM	21470	N1	G	A1024	228.167	114.192	66.883	1.00198.94	A16S
ATOM	21471	C6	G	A1024	229.492	114.086	67.289	1.00198.94	A16S
ATOM	21472	O6	G	A1024	229.993	112.970	67.475	1.00198.94	A16S
ATOM	21473	C5	G	A1024	230.096	115.362	67.435	1.00198.94	A16S
ATOM	21474	N7	G	A1024	231.383	115.704	67.822	1.00198.94	A16S
ATOM	21475	C8	G	A1024	231.397	117.009	67.788	1.00198.94	A16S
ATOM	21476	C2*	G	A1024	228.885	119.525	68.268	1.00198.94	A16S



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ATOM	21477	O2*	G	A1024	228.040	120.468	67.635	1.00198.94	A16S
ATOM	21478	C3*	G	A1024	229.811	120.152	69.309	1.00198.94	A16S
ATOM	21479	O3*	G	A1024	229.194	121.192	70.062	1.00198.94	A16S
ATOM	21480	P	U	A1025	228.604	120.871	71.525	1.00198.94	A16S
ATOM	21481	O1P	U	A1025	228.147	122.171	72.095	1.00171.17	A16S
ATOM	21482	O2P	U	A1025	229.604	120.058	72.271	1.00171.17	A16S
ATOM	21483	O5*	U	A1025	227.339	119.943	71.218	1.00198.94	A16S
ATOM	21484	C5*	U	A1025	225.996	120.403	71.475	1.00198.94	A16S
ATOM	21485	C4*	U	A1025	225.681	121.595	70.600	1.00198.94	A16S
ATOM	21486	O4*	U	A1025	225.575	121.192	69.205	1.00198.94	A16S
ATOM	21487	C1*	U	A1025	224.621	122.017	68.542	1.00198.94	A16S
ATOM	21488	N1	U	A1025	223.553	121.172	67.968	1.00171.17	A16S
ATOM	21489	C6	U	A1025	223.367	119.864	68.373	1.00171.17	A16S
ATOM	21490	C2	U	A1025	222.725	121.736	66.996	1.00171.17	A16S
ATOM	21491	O2	U	A1025	222.836	122.889	66.606	1.00171.17	A16S
ATOM	21492	N3	U	A1025	221.758	120.899	66.504	1.00171.17	A16S
ATOM	21493	C4	U	A1025	221.526	119.594	66.868	1.00171.17	A16S
ATOM	21494	O4	U	A1025	220.614	118.974	66.327	1.00171.17	A16S
ATOM	21495	C5	U	A1025	222.408	119.083	67.872	1.00171.17	A16S
ATOM	21496	C2*	U	A1025	224.096	123.025	69.568	1.00198.94	A16S
ATOM	21497	O2*	U	A1025	224.811	124.243	69.447	1.00198.94	A16S
ATOM	21498	C3*	U	A1025	224.368	122.300	70.883	1.00198.94	A16S
ATOM	21499	O3*	U	A1025	224.477	123.186	71.987	1.00198.94	A16S
ATOM	21500	P	G	A1026	223.668	122.867	73.340	1.00198.94	A16S
ATOM	21501	O1P	G	A1026	224.569	122.047	74.193	1.00197.50	A16S
ATOM	21502	O2P	G	A1026	222.322	122.339	72.979	1.00197.50	A16S
ATOM	21503	O5*	G	A1026	223.485	124.298	74.018	1.00198.94	A16S
ATOM	21504	C5*	G	A1026	222.340	125.126	73.718	1.00198.94	A16S
ATOM	21505	C4*	G	A1026	222.691	126.132	72.648	1.00198.94	A16S
ATOM	21506	O4*	G	A1026	223.124	125.418	71.460	1.00198.94	A16S
ATOM	21507	C1*	G	A1026	222.656	126.085	70.301	1.00198.94	A16S
ATOM	21508	N9	G	A1026	221.751	125.188	69.585	1.00197.50	A16S
ATOM	21509	C4	G	A1026	221.246	125.384	68.323	1.00197.50	A16S
ATOM	21510	N3	G	A1026	221.499	126.443	67.527	1.00197.50	A16S
ATOM	21511	C2	G	A1026	220.863	126.356	66.376	1.00197.50	A16S
ATOM	21512	N2	G	A1026	220.999	127.330	65.465	1.00197.50	A16S
ATOM	21513	N1	G	A1026	220.045	125.309	66.031	1.00197.50	A16S
ATOM	21514	C6	G	A1026	219.773	124.207	66.836	1.00197.50	A16S
ATOM	21515	O6	G	A1026	219.024	123.316	66.427	1.00197.50	A16S
ATOM	21516	C5	G	A1026	220.445	124.290	68.075	1.00197.50	A16S
ATOM	21517	N7	G	A1026	220.447	123.421	69.156	1.00197.50	A16S
ATOM	21518	C8	G	A1026	221.230	123.993	70.028	1.00197.50	A16S
ATOM	21519	C2*	G	A1026	221.957	127.367	70.753	1.00198.94	A16S
ATOM	21520	O2*	G	A1026	222.868	128.449	70.710	1.00198.94	A16S
ATOM	21521	C3*	G	A1026	221.537	126.999	72.169	1.00198.94	A16S
ATOM	21522	O3*	G	A1026	221.350	128.152	72.974	1.00198.94	A16S
ATOM	21523	P	C	A1027	219.858	128.651	73.305	1.00198.94	A16S
ATOM	21524	O1P	C	A1027	219.948	130.111	73.581	1.00198.94	A16S
ATOM	21525	O2P	C	A1027	219.285	127.741	74.332	1.00198.94	A16S
ATOM	21526	O5*	C	A1027	219.053	128.433	71.943	1.00198.94	A16S
ATOM	21527	C5*	C	A1027	219.178	129.361	70.840	1.00198.94	A16S
ATOM	21528	C4*	C	A1027	218.115	129.090	69.791	1.00198.94	A16S
ATOM	21529	O4*	C	A1027	218.379	127.831	69.122	1.00198.94	A16S
ATOM	21530	C1*	C	A1027	217.152	127.215	68.767	1.00198.94	A16S
ATOM	21531	N1	C	A1027	217.109	125.854	69.342	1.00198.94	A16S
ATOM	21532	C6	C	A1027	218.074	125.425	70.212	1.00198.94	A16S
ATOM	21533	C2	C	A1027	216.056	124.995	68.979	1.00198.94	A16S
ATOM	21534	O2	C	A1027	215.183	125.405	68.196	1.00198.94	A16S
ATOM	21535	N3	C	A1027	216.018	123.745	69.491	1.00198.94	A16S
ATOM	21536	C4	C	A1027	216.970	123.339	70.334	1.00198.94	A16S
ATOM	21537	N4	C	A1027	216.895	122.093	70.810	1.00198.94	A16S
ATOM	21538	C5	C	A1027	218.043	124.190	70.727	1.00198.94	A16S
ATOM	21539	C2*	C	A1027	216.008	128.127	69.224	1.00198.94	A16S
ATOM	21540	O2*	C	A1027	215.560	128.889	68.122	1.00198.94	A16S
ATOM	21541	C3*	C	A1027	216.682	128.977	70.298	1.00198.94	A16S
ATOM	21542	O3*	C	A1027	216.075	130.265	70.406	1.00198.94	A16S
ATOM	21543	P	C	A1028	215.447	130.741	71.809	1.00198.94	A16S
ATOM	21544	O1P	C	A1028	215.379	132.229	71.773	1.00193.68	A16S
ATOM	21545	O2P	C	A1028	216.182	130.066	72.912	1.00193.68	A16S
ATOM	21546	O5*	C	A1028	213.966	130.155	71.799	1.00198.94	A16S
ATOM	21547	C5*	C	A1028	212.844	130.954	71.368	1.00198.94	A16S
ATOM	21548	C4*	C	A1028	211.558	130.198	71.601	1.00198.94	A16S
ATOM	21549	O4*	C	A1028	211.649	128.937	70.891	1.00198.94	A16S
ATOM	21550	C1*	C	A1028	211.077	127.902	71.670	1.00198.94	A16S
ATOM	21551	N1	C	A1028	212.130	126.905	71.952	1.00193.68	A16S
ATOM	21552	C6	C	A1028	213.433	127.288	72.127	1.00193.68	A16S
ATOM	21553	C2	C	A1028	211.778	125.548	72.034	1.00193.68	A16S



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ATOM	21554	O2	C	A1028	210.589	125.218	71.877	1.00193.68	A16S
ATOM	21555	N3	C	A1028	212.740	124.631	72.279	1.00193.68	A16S
ATOM	21556	C4	C	A1028	214.007	125.018	72.438	1.00193.68	A16S
ATOM	21557	N4	C	A1028	214.921	124.074	72.668	1.00193.68	A16S
ATOM	21558	C5	C	A1028	214.393	126.389	72.367	1.00193.68	A16S
ATOM	21559	C2*	C	A1028	210.466	128.538	72.921	1.00198.94	A16S
ATOM	21560	O2*	C	A1028	209.089	128.780	72.708	1.00198.94	A16S
ATOM	21561	C3*	C	A1028	211.288	129.816	73.051	1.00198.94	A16S
ATOM	21562	O3*	C	A1028	210.582	130.848	73.741	1.00198.94	A16S
ATOM	21563	P	C	A1029	210.705	130.974	75.342	1.00198.94	A16S
ATOM	21564	O1P	C	A1029	210.009	132.226	75.740	1.00198.94	A16S
ATOM	21565	O2P	C	A1029	212.128	130.772	75.728	1.00198.94	A16S
ATOM	21566	O5*	C	A1029	209.862	129.740	75.897	1.00198.94	A16S
ATOM	21567	C5*	C	A1029	208.421	129.716	75.805	1.00198.94	A16S
ATOM	21568	C4*	C	A1029	207.894	128.343	76.162	1.00198.94	A16S
ATOM	21569	O4*	C	A1029	208.408	127.375	75.206	1.00198.94	A16S
ATOM	21570	C1*	C	A1029	208.688	126.148	75.865	1.00198.94	A16S
ATOM	21571	N1	C	A1029	210.136	125.874	75.759	1.00198.94	A16S
ATOM	21572	C6	C	A1029	211.035	126.892	75.573	1.00198.94	A16S
ATOM	21573	C2	C	A1029	210.586	124.548	75.867	1.00198.94	A16S
ATOM	21574	O2	C	A1029	209.752	123.635	76.025	1.00198.94	A16S
ATOM	21575	N3	C	A1029	211.916	124.296	75.797	1.00198.94	A16S
ATOM	21576	C4	C	A1029	212.780	125.301	75.625	1.00198.94	A16S
ATOM	21577	N4	C	A1029	214.081	125.006	75.573	1.00198.94	A16S
ATOM	21578	C5	C	A1029	212.350	126.653	75.501	1.00198.94	A16S
ATOM	21579	C2*	C	A1029	208.246	126.290	77.323	1.00198.94	A16S
ATOM	21580	O2*	C	A1029	206.949	125.751	77.499	1.00198.94	A16S
ATOM	21581	C3*	C	A1029	208.321	127.801	77.520	1.00198.94	A16S
ATOM	21582	O3*	C	A1029	207.503	128.258	78.593	1.00198.94	A16S
ATOM	21583	P	C	A1030	208.004	128.061	80.112	1.00198.94	A16S
ATOM	21584	O1P	C	A1030	207.024	128.734	81.003	1.00184.97	A16S
ATOM	21585	O2P	C	A1030	209.442	128.431	80.198	1.00184.97	A16S
ATOM	21586	O5*	C	A1030	207.887	126.490	80.340	1.00198.94	A16S
ATOM	21587	C5*	C	A1030	206.623	125.885	80.662	1.00198.94	A16S
ATOM	21588	C4*	C	A1030	206.840	124.643	81.487	1.00198.94	A16S
ATOM	21589	O4*	C	A1030	207.387	123.594	80.645	1.00198.94	A16S
ATOM	21590	C1*	C	A1030	208.308	122.813	81.393	1.00198.94	A16S
ATOM	21591	N1	C	A1030	209.644	122.923	80.769	1.00184.97	A16S
ATOM	21592	C6	C	A1030	210.033	124.076	80.140	1.00184.97	A16S
ATOM	21593	C2	C	A1030	210.525	121.828	80.844	1.00184.97	A16S
ATOM	21594	O2	C	A1030	210.152	120.782	81.405	1.00184.97	A16S
ATOM	21595	N3	C	A1030	211.760	121.939	80.300	1.00184.97	A16S
ATOM	21596	C4	C	A1030	212.127	123.072	79.697	1.00184.97	A16S
ATOM	21597	N4	C	A1030	213.355	123.135	79.176	1.00184.97	A16S
ATOM	21598	C5	C	A1030	211.252	124.192	79.599	1.00184.97	A16S
ATOM	21599	C2*	C	A1030	208.307	123.345	82.829	1.00198.94	A16S
ATOM	21600	O2*	C	A1030	207.420	122.582	83.624	1.00198.94	A16S
ATOM	21601	C3*	C	A1030	207.842	124.782	82.625	1.00198.94	A16S
ATOM	21602	O3*	C	A1030	207.290	125.367	83.803	1.00198.94	A16S
ATOM	21603	P	G	A1030A	208.239	126.230	84.784	1.00198.94	A16S
ATOM	21604	O1P	G	A1030A	207.370	126.816	85.839	1.00198.94	A16S
ATOM	21605	O2P	G	A1030A	209.104	127.127	83.968	1.00198.94	A16S
ATOM	21606	O5*	G	A1030A	209.174	125.138	85.474	1.00198.94	A16S
ATOM	21607	C5*	G	A1030A	208.618	124.138	86.356	1.00198.94	A16S
ATOM	21608	C4*	G	A1030A	209.681	123.143	86.774	1.00198.94	A16S
ATOM	21609	O4*	G	A1030A	210.126	122.387	85.615	1.00198.94	A16S
ATOM	21610	C1*	G	A1030A	211.514	122.105	85.730	1.00198.94	A16S
ATOM	21611	N9	G	A1030A	212.221	122.802	84.655	1.00198.94	A16S
ATOM	21612	C4	G	A1030A	213.554	122.668	84.342	1.00198.94	A16S
ATOM	21613	N3	G	A1030A	214.429	121.836	84.948	1.00198.94	A16S
ATOM	21614	C2	G	A1030A	215.645	121.949	84.446	1.00198.94	A16S
ATOM	21615	N2	G	A1030A	216.634	121.191	84.933	1.00198.94	A16S
ATOM	21616	N1	G	A1030A	215.980	122.815	83.430	1.00198.94	A16S
ATOM	21617	C6	G	A1030A	215.097	123.681	82.791	1.00198.94	A16S
ATOM	21618	O6	G	A1030A	215.506	124.426	81.888	1.00198.94	A16S
ATOM	21619	C5	G	A1030A	213.783	123.565	83.317	1.00198.94	A16S
ATOM	21620	N7	G	A1030A	212.614	124.230	82.974	1.00198.94	A16S
ATOM	21621	C8	G	A1030A	211.714	123.742	83.785	1.00198.94	A16S
ATOM	21622	C2*	G	A1030A	211.974	122.622	87.095	1.00198.94	A16S
ATOM	21623	O2*	G	A1030A	211.920	121.584	88.057	1.00198.94	A16S
ATOM	21624	C3*	G	A1030A	210.960	123.729	87.356	1.00198.94	A16S
ATOM	21625	O3*	G	A1030A	210.852	124.067	88.733	1.00198.94	A16S
ATOM	21626	P	C	A1030B	211.561	125.408	89.279	1.00198.94	A16S
ATOM	21627	O1P	C	A1030B	210.940	125.687	90.597	1.00179.20	A16S
ATOM	21628	O2P	C	A1030B	211.529	126.459	88.215	1.00179.20	A16S
ATOM	21629	O5*	C	A1030B	213.080	124.977	89.525	1.00198.94	A16S
ATOM	21630	C5*	C	A1030B	214.090	125.961	89.858	1.00198.94	A16S



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ATOM	21631	C4*	C	A1030B	215.343	125.288	90.384	1.00198.94	A16S
ATOM	21632	O4*	C	A1030B	215.048	124.611	91.631	1.00198.94	A16S
ATOM	21633	C1*	C	A1030B	215.839	123.441	91.734	1.00198.94	A16S
ATOM	21634	N1	C	A1030B	214.952	122.282	91.938	1.00179.20	A16S
ATOM	21635	C6	C	A1030B	213.638	122.325	91.559	1.00179.20	A16S
ATOM	21636	C2	C	A1030B	215.477	121.122	92.537	1.00179.20	A16S
ATOM	21637	O2	C	A1030B	216.678	121.095	92.863	1.00179.20	A16S
ATOM	21638	N3	C	A1030B	214.666	120.061	92.743	1.00179.20	A16S
ATOM	21639	C4	C	A1030B	213.385	120.120	92.373	1.00179.20	A16S
ATOM	21640	N4	C	A1030B	212.620	119.048	92.599	1.00179.20	A16S
ATOM	21641	C5	C	A1030B	212.828	121.280	91.756	1.00179.20	A16S
ATOM	21642	C2*	C	A1030B	216.719	123.338	90.485	1.00198.94	A16S
ATOM	21643	O2*	C	A1030B	218.017	123.810	90.790	1.00198.94	A16S
ATOM	21644	C3*	C	A1030B	215.971	124.224	89.492	1.00198.94	A16S
ATOM	21645	O3*	C	A1030B	216.871	124.817	88.559	1.00198.94	A16S
ATOM	21646	P	G	A1030C	216.877	124.330	87.026	1.00198.07	A16S
ATOM	21647	O1P	G	A1030C	217.765	125.255	86.277	1.00198.61	A16S
ATOM	21648	O2P	G	A1030C	215.470	124.146	86.585	1.00198.61	A16S
ATOM	21649	O5*	G	A1030C	217.575	122.899	87.067	1.00198.07	A16S
ATOM	21650	C5*	G	A1030C	218.961	122.749	87.430	1.00198.07	A16S
ATOM	21651	C4*	G	A1030C	219.236	121.312	87.794	1.00198.07	A16S
ATOM	21652	O4*	G	A1030C	218.338	120.951	88.876	1.00198.07	A16S
ATOM	21653	C1*	G	A1030C	217.858	119.633	88.686	1.00198.07	A16S
ATOM	21654	N9	G	A1030C	216.409	119.702	88.517	1.00198.61	A16S
ATOM	21655	C4	G	A1030C	215.476	118.852	89.064	1.00198.61	A16S
ATOM	21656	N3	G	A1030C	215.734	117.797	89.871	1.00198.61	A16S
ATOM	21657	C2	G	A1030C	214.626	117.164	90.230	1.00198.61	A16S
ATOM	21658	N2	G	A1030C	214.699	116.086	91.031	1.00198.61	A16S
ATOM	21659	N1	G	A1030C	213.365	117.540	89.831	1.00198.61	A16S
ATOM	21660	C6	G	A1030C	213.075	118.623	89.002	1.00198.61	A16S
ATOM	21661	O6	G	A1030C	211.899	118.873	88.702	1.00198.61	A16S
ATOM	21662	C5	G	A1030C	214.256	119.309	88.607	1.00198.61	A16S
ATOM	21663	N7	G	A1030C	214.418	120.423	87.796	1.00198.61	A16S
ATOM	21664	C8	G	A1030C	215.706	120.621	87.773	1.00198.61	A16S
ATOM	21665	C2*	G	A1030C	218.574	119.043	87.468	1.00198.07	A16S
ATOM	21666	O2*	G	A1030C	219.693	118.288	87.889	1.00198.07	A16S
ATOM	21667	C3*	G	A1030C	218.948	120.301	86.689	1.00198.07	A16S
ATOM	21668	O3*	G	A1030C	220.073	120.112	85.826	1.00198.07	A16S
ATOM	21669	P	A	A1030D	219.877	119.405	84.389	1.00195.93	A16S
ATOM	21670	O1P	A	A1030D	221.155	119.540	83.646	1.00198.94	A16S
ATOM	21671	O2P	A	A1030D	218.623	119.894	83.771	1.00198.94	A16S
ATOM	21672	O5*	A	A1030D	219.676	117.865	84.741	1.00195.93	A16S
ATOM	21673	C5*	A	A1030D	220.763	117.075	85.259	1.00195.93	A16S
ATOM	21674	C4*	A	A1030D	220.268	115.707	85.664	1.00195.93	A16S
ATOM	21675	O4*	A	A1030D	219.331	115.845	86.766	1.00195.93	A16S
ATOM	21676	C1*	A	A1030D	218.299	114.878	86.642	1.00195.93	A16S
ATOM	21677	N9	A	A1030D	217.015	115.577	86.522	1.00198.94	A16S
ATOM	21678	C4	A	A1030D	215.801	115.141	87.003	1.00198.94	A16S
ATOM	21679	N3	A	A1030D	215.549	114.010	87.688	1.00198.94	A16S
ATOM	21680	C2	A	A1030D	214.254	113.918	87.985	1.00198.94	A16S
ATOM	21681	N1	A	A1030D	213.255	114.761	87.695	1.00198.94	A16S
ATOM	21682	C6	A	A1030D	213.540	115.887	87.003	1.00198.94	A16S
ATOM	21683	N6	A	A1030D	212.542	116.723	86.703	1.00198.94	A16S
ATOM	21684	C5	A	A1030D	214.879	116.107	86.633	1.00198.94	A16S
ATOM	21685	N7	A	A1030D	215.499	117.139	85.939	1.00198.94	A16S
ATOM	21686	C8	A	A1030D	216.759	116.780	85.901	1.00198.94	A16S
ATOM	21687	C2*	A	A1030D	218.615	114.014	85.418	1.00195.93	A16S
ATOM	21688	O2*	A	A1030D	219.284	112.836	85.828	1.00195.93	A16S
ATOM	21689	C3*	A	A1030D	219.495	114.950	84.594	1.00195.93	A16S
ATOM	21690	O3*	A	A1030D	220.353	114.246	83.700	1.00195.93	A16S
ATOM	21691	P	G	A1031	220.235	114.501	82.113	1.00198.94	A16S
ATOM	21692	O1P	G	A1031	221.025	113.437	81.441	1.00164.19	A16S
ATOM	21693	O2P	G	A1031	220.554	115.929	81.855	1.00164.19	A16S
ATOM	21694	O5*	G	A1031	218.693	114.269	81.775	1.00198.94	A16S
ATOM	21695	C5*	G	A1031	218.024	113.049	82.161	1.00198.94	A16S
ATOM	21696	C4*	G	A1031	216.548	113.302	82.396	1.00198.94	A16S
ATOM	21697	O4*	G	A1031	216.407	114.484	83.231	1.00198.94	A16S
ATOM	21698	C1*	G	A1031	215.219	115.178	82.885	1.00198.94	A16S
ATOM	21699	N9	G	A1031	215.565	116.523	82.433	1.00164.19	A16S
ATOM	21700	C4	G	A1031	214.737	117.620	82.463	1.00164.19	A16S
ATOM	21701	N3	G	A1031	213.476	117.651	82.955	1.00164.19	A16S
ATOM	21702	C2	G	A1031	212.923	118.845	82.828	1.00164.19	A16S
ATOM	21703	N2	G	A1031	211.675	119.056	83.273	1.00164.19	A16S
ATOM	21704	N1	G	A1031	213.552	119.922	82.258	1.00164.19	A16S
ATOM	21705	C6	G	A1031	214.846	119.914	81.742	1.00164.19	A16S
ATOM	21706	O6	G	A1031	215.314	120.945	81.238	1.00164.19	A16S
ATOM	21707	C5	G	A1031	215.458	118.638	81.881	1.00164.19	A16S



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ATOM	21708	N7	G	A1031	216.725	118.198	81.513	1.00164.19	A16S
ATOM	21709	C8	G	A1031	216.746	116.942	81.864	1.00164.19	A16S
ATOM	21710	C2*	G	A1031	214.524	114.395	81.772	1.00198.94	A16S
ATOM	21711	O2*	G	A1031	213.502	113.578	82.314	1.00198.94	A16S
ATOM	21712	C3*	G	A1031	215.686	113.607	81.176	1.00198.94	A16S
ATOM	21713	O3*	G	A1031	215.219	112.434	80.513	1.00198.94	A16S
ATOM	21714	P	G	A1032	214.620	112.547	79.021	1.00198.09	A16S
ATOM	21715	O1P	G	A1032	214.275	111.167	78.570	1.00191.96	A16S
ATOM	21716	O2P	G	A1032	215.551	113.379	78.205	1.00191.96	A16S
ATOM	21717	O5*	G	A1032	213.268	113.375	79.195	1.00198.09	A16S
ATOM	21718	C5*	G	A1032	212.034	112.732	79.582	1.00198.09	A16S
ATOM	21719	C4*	G	A1032	210.878	113.685	79.397	1.00198.09	A16S
ATOM	21720	O4*	G	A1032	211.139	114.869	80.194	1.00198.09	A16S
ATOM	21721	C1*	G	A1032	210.694	116.023	79.502	1.00198.09	A16S
ATOM	21722	N9	G	A1032	211.844	116.894	79.267	1.00191.96	A16S
ATOM	21723	C4	G	A1032	211.802	118.180	78.782	1.00191.96	A16S
ATOM	21724	N3	G	A1032	210.688	118.862	78.442	1.00191.96	A16S
ATOM	21725	C2	G	A1032	210.967	120.076	77.998	1.00191.96	A16S
ATOM	21726	N2	G	A1032	209.975	120.891	77.610	1.00191.96	A16S
ATOM	21727	N1	G	A1032	212.239	120.582	77.900	1.00191.96	A16S
ATOM	21728	C6	G	A1032	213.401	119.901	78.248	1.00191.96	A16S
ATOM	21729	O6	G	A1032	214.500	120.458	78.124	1.00191.96	A16S
ATOM	21730	C5	G	A1032	213.116	118.591	78.722	1.00191.96	A16S
ATOM	21731	N7	G	A1032	213.969	117.586	79.160	1.00191.96	A16S
ATOM	21732	C8	G	A1032	213.172	116.602	79.474	1.00191.96	A16S
ATOM	21733	C2*	G	A1032	210.021	115.564	78.207	1.00198.09	A16S
ATOM	21734	O2*	G	A1032	208.624	115.477	78.408	1.00198.09	A16S
ATOM	21735	C3*	G	A1032	210.681	114.209	77.978	1.00198.09	A16S
ATOM	21736	O3*	G	A1032	209.870	113.338	77.186	1.00198.09	A16S
ATOM	21737	P	G	A1033	210.148	113.196	75.602	1.00198.94	A16S
ATOM	21738	O1P	G	A1033	209.424	111.982	75.135	1.00198.94	A16S
ATOM	21739	O2P	G	A1033	211.613	113.314	75.362	1.00198.94	A16S
ATOM	21740	O5*	G	A1033	209.445	114.473	74.951	1.00198.94	A16S
ATOM	21741	C5*	G	A1033	208.005	114.604	74.917	1.00198.94	A16S
ATOM	21742	C4*	G	A1033	207.618	116.010	74.510	1.00198.94	A16S
ATOM	21743	O4*	G	A1033	208.240	116.944	75.432	1.00198.94	A16S
ATOM	21744	C1*	G	A1033	208.644	118.112	74.737	1.00198.94	A16S
ATOM	21745	N9	G	A1033	210.093	118.249	74.862	1.00198.94	A16S
ATOM	21746	C4	G	A1033	210.828	119.376	74.583	1.00198.94	A16S
ATOM	21747	N3	G	A1033	210.337	120.556	74.147	1.00198.94	A16S
ATOM	21748	C2	G	A1033	211.292	121.449	73.957	1.00198.94	A16S
ATOM	21749	N2	G	A1033	210.982	122.673	73.509	1.00198.94	A16S
ATOM	21750	N1	G	A1033	212.623	121.209	74.186	1.00198.94	A16S
ATOM	21751	C6	G	A1033	213.153	120.004	74.635	1.00198.94	A16S
ATOM	21752	O6	G	A1033	214.373	119.894	74.808	1.00198.94	A16S
ATOM	21753	C5	G	A1033	212.138	119.030	74.836	1.00198.94	A16S
ATOM	21754	N7	G	A1033	212.227	117.712	75.267	1.00198.94	A16S
ATOM	21755	C8	G	A1033	210.992	117.290	75.268	1.00198.94	A16S
ATOM	21756	C2*	G	A1033	208.193	117.974	73.281	1.00198.94	A16S
ATOM	21757	O2*	G	A1033	206.959	118.641	73.096	1.00198.94	A16S
ATOM	21758	C3*	G	A1033	208.089	116.460	73.131	1.00198.94	A16S
ATOM	21759	O3*	G	A1033	207.169	116.097	72.104	1.00198.94	A16S
ATOM	21760	P	G	A1034	207.693	115.899	70.595	1.00198.94	A16S
ATOM	21761	O1P	G	A1034	206.601	115.202	69.858	1.00162.35	A16S
ATOM	21762	O2P	G	A1034	209.054	115.292	70.642	1.00162.35	A16S
ATOM	21763	O5*	G	A1034	207.843	117.380	70.017	1.00198.94	A16S
ATOM	21764	C5*	G	A1034	206.684	118.150	69.630	1.00198.94	A16S
ATOM	21765	C4*	G	A1034	207.084	119.563	69.263	1.00198.94	A16S
ATOM	21766	O4*	G	A1034	207.821	120.144	70.372	1.00198.94	A16S
ATOM	21767	C1*	G	A1034	208.792	121.051	69.878	1.00198.94	A16S
ATOM	21768	N9	G	A1034	210.119	120.624	70.314	1.00162.35	A16S
ATOM	21769	C4	G	A1034	211.265	121.377	70.233	1.00162.35	A16S
ATOM	21770	N3	G	A1034	211.352	122.636	69.748	1.00162.35	A16S
ATOM	21771	C2	G	A1034	212.589	123.095	69.786	1.00162.35	A16S
ATOM	21772	N2	G	A1034	212.854	124.328	69.334	1.00162.35	A16S
ATOM	21773	N1	G	A1034	213.658	122.380	70.267	1.00162.35	A16S
ATOM	21774	C6	G	A1034	213.595	121.082	70.770	1.00162.35	A16S
ATOM	21775	O6	G	A1034	214.625	120.526	71.174	1.00162.35	A16S
ATOM	21776	C5	G	A1034	212.268	120.573	70.733	1.00162.35	A16S
ATOM	21777	N7	G	A1034	211.762	119.339	71.126	1.00162.35	A16S
ATOM	21778	C8	G	A1034	210.485	119.415	70.863	1.00162.35	A16S
ATOM	21779	C2*	G	A1034	208.685	121.077	68.354	1.00198.94	A16S
ATOM	21780	O2*	G	A1034	207.927	122.203	67.956	1.00198.94	A16S
ATOM	21781	C3*	G	A1034	208.009	119.741	68.064	1.00198.94	A16S
ATOM	21782	O3*	G	A1034	207.302	119.773	66.825	1.00198.94	A16S
ATOM	21783	P	A	A1035	208.121	119.700	65.438	1.00198.94	A16S
ATOM	21784	O1P	A	A1035	207.134	119.669	64.326	1.00198.94	A16S



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ATOM	21785	O2P	A	A1035	209.135	118.618	65.547	1.00198.94	A16S
ATOM	21786	O5*	A	A1035	208.901	121.089	65.368	1.00198.94	A16S
ATOM	21787	C5*	A	A1035	208.245	122.297	64.929	1.00198.94	A16S
ATOM	21788	C4*	A	A1035	209.264	123.275	64.395	1.00198.94	A16S
ATOM	21789	O4*	A	A1035	210.181	123.632	65.465	1.00198.94	A16S
ATOM	21790	C1*	A	A1035	211.503	123.731	64.956	1.00198.94	A16S
ATOM	21791	N9	A	A1035	212.292	122.638	65.528	1.00198.94	A16S
ATOM	21792	C4	A	A1035	213.638	122.649	65.801	1.00198.94	A16S
ATOM	21793	N3	A	A1035	214.495	123.671	65.638	1.00198.94	A16S
ATOM	21794	C2	A	A1035	215.727	123.310	65.992	1.00198.94	A16S
ATOM	21795	N1	A	A1035	216.166	122.131	66.452	1.00198.94	A16S
ATOM	21796	C6	A	A1035	215.278	121.124	66.602	1.00198.94	A16S
ATOM	21797	N6*	A	A1035	215.716	119.947	67.056	1.00198.94	A16S
ATOM	21798	C5	A	A1035	213.938	121.381	66.268	1.00198.94	A16S
ATOM	21799	N7	A	A1035	212.800	120.590	66.308	1.00198.94	A16S
ATOM	21800	C8	A	A1035	211.854	121.379	65.868	1.00198.94	A16S
ATOM	21801	C2*	A	A1035	211.420	123.573	63.438	1.00198.94	A16S
ATOM	21802	O2*	A	A1035	211.323	124.837	62.813	1.00198.94	A16S
ATOM	21803	C3*	A	A1035	210.163	122.726	63.298	1.00198.94	A16S
ATOM	21804	O3*	A	A1035	209.588	122.785	62.002	1.00198.94	A16S
ATOM	21805	P	G	A1036	210.132	121.797	60.856	1.00198.94	A16S
ATOM	21806	O1P	G	A1036	209.143	121.813	59.749	1.00198.94	A16S
ATOM	21807	O2P	G	A1036	210.503	120.502	61.487	1.00198.94	A16S
ATOM	21808	O5*	G	A1036	211.469	122.507	60.353	1.00198.94	A16S
ATOM	21809	C5*	G	A1036	211.424	123.835	59.787	1.00198.94	A16S
ATOM	21810	C4*	G	A1036	212.814	124.430	59.688	1.00198.94	A16S
ATOM	21811	O4*	G	A1036	213.386	124.561	61.015	1.00198.94	A16S
ATOM	21812	C1*	G	A1036	214.794	124.418	60.938	1.00198.94	A16S
ATOM	21813	N9	G	A1036	215.223	123.357	61.848	1.00198.94	A16S
ATOM	21814	C4	G	A1036	216.526	123.057	62.171	1.00198.94	A16S
ATOM	21815	N3	G	A1036	217.623	123.688	61.698	1.00198.94	A16S
ATOM	21816	C2	G	A1036	218.740	123.177	62.186	1.00198.94	A16S
ATOM	21817	N2	G	A1036	219.923	123.685	61.809	1.00198.94	A16S
ATOM	21818	N1	G	A1036	218.779	122.132	63.078	1.00198.94	A16S
ATOM	21819	C6	G	A1036	217.664	121.470	63.586	1.00198.94	A16S
ATOM	21820	O6	G	A1036	217.814	120.550	64.396	1.00198.94	A16S
ATOM	21821	C5	G	A1036	216.453	122.003	63.058	1.00198.94	A16S
ATOM	21822	N7	G	A1036	215.130	121.640	63.284	1.00198.94	A16S
ATOM	21823	C8	G	A1036	214.436	122.468	62.548	1.00198.94	A16S
ATOM	21824	C2*	G	A1036	215.170	124.158	59.476	1.00198.94	A16S
ATOM	21825	O2*	G	A1036	215.619	125.360	58.877	1.00198.94	A16S
ATOM	21826	C3*	G	A1036	213.855	123.650	58.893	1.00198.94	A16S
ATOM	21827	O3*	G	A1036	213.776	123.927	57.496	1.00198.94	A16S
ATOM	21828	P	C	A1037	214.008	122.744	56.428	1.00198.94	A16S
ATOM	21829	O1P	C	A1037	214.202	123.386	55.100	1.00198.80	A16S
ATOM	21830	O2P	C	A1037	212.940	121.720	56.604	1.00198.80	A16S
ATOM	21831	O5*	C	A1037	215.388	122.080	56.862	1.00198.94	A16S
ATOM	21832	C5*	C	A1037	216.636	122.788	56.732	1.00198.94	A16S
ATOM	21833	C4*	C	A1037	217.712	122.070	57.509	1.00198.94	A16S
ATOM	21834	O4*	C	A1037	217.342	122.069	58.912	1.00198.94	A16S
ATOM	21835	C1*	C	A1037	217.696	120.828	59.502	1.00198.94	A16S
ATOM	21836	N1	C	A1037	216.483	120.214	60.096	1.00198.80	A16S
ATOM	21837	C6	C	A1037	215.229	120.543	59.650	1.00198.80	A16S
ATOM	21838	C2	C	A1037	216.636	119.291	61.147	1.00198.80	A16S
ATOM	21839	O2	C	A1037	217.782	118.978	61.513	1.00198.80	A16S
ATOM	21840	N3	C	A1037	215.533	118.764	61.731	1.00198.80	A16S
ATOM	21841	C4	C	A1037	214.318	119.113	61.302	1.00198.80	A16S
ATOM	21842	N4	C	A1037	213.262	118.586	61.925	1.00198.80	A16S
ATOM	21843	C5	C	A1037	214.132	120.023	60.219	1.00198.80	A16S
ATOM	21844	C2*	C	A1037	218.404	119.980	58.441	1.00198.94	A16S
ATOM	21845	O2*	C	A1037	219.806	120.102	58.591	1.00198.94	A16S
ATOM	21846	C3*	C	A1037	217.884	120.601	57.148	1.00198.94	A16S
ATOM	21847	O3*	C	A1037	218.795	120.436	56.066	1.00198.94	A16S
ATOM	21848	P	C	A1038	218.663	119.157	55.101	1.00198.94	A16S
ATOM	21849	O1P	C	A1038	219.583	119.385	53.955	1.00198.57	A16S
ATOM	21850	O2P	C	A1038	217.219	118.901	54.847	1.00198.57	A16S
ATOM	21851	O5*	C	A1038	219.227	117.945	55.970	1.00198.94	A16S
ATOM	21852	C5*	C	A1038	220.635	117.824	56.275	1.00198.94	A16S
ATOM	21853	C4*	C	A1038	220.845	116.728	57.290	1.00198.94	A16S
ATOM	21854	O4*	C	A1038	220.135	117.089	58.505	1.00198.94	A16S
ATOM	21855	C1*	C	A1038	219.511	115.942	59.062	1.00198.94	A16S
ATOM	21856	N1	C	A1038	218.047	116.164	59.051	1.00198.57	A16S
ATOM	21857	C6	C	A1038	217.402	116.514	57.894	1.00198.57	A16S
ATOM	21858	C2	C	A1038	217.319	116.012	60.244	1.00198.57	A16S
ATOM	21859	O2	C	A1038	217.917	115.705	61.286	1.00198.57	A16S
ATOM	21860	N3	C	A1038	215.980	116.211	60.229	1.00198.57	A16S
ATOM	21861	C4	C	A1038	215.367	116.554	59.093	1.00198.57	A16S



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ATOM	21862	N4	C	A1038	214.047	116.748	59.128	1.00198.57	A16S
ATOM	21863	C5	C	A1038	216.080	116.717	57.871	1.00198.57	A16S
ATOM	21864	C2*	C	A1038	219.943	114.733	58.231	1.00198.94	A16S
ATOM	21865	O2*	C	A1038	221.058	114.096	58.825	1.00198.94	A16S
ATOM	21866	C3*	C	A1038	220.259	115.382	56.891	1.00198.94	A16S
ATOM	21867	O3*	C	A1038	221.140	114.606	56.091	1.00198.94	A16S
ATOM	21868	P	C	A1039	220.533	113.620	54.972	1.00158.05	A16S
ATOM	21869	O1P	C	A1039	221.543	113.506	53.890	1.00151.60	A16S
ATOM	21870	O2P	C	A1039	219.151	114.063	54.644	1.00151.60	A16S
ATOM	21871	O5*	C	A1039	220.431	112.210	55.703	1.00158.05	A16S
ATOM	21872	C5*	C	A1039	221.611	111.442	55.989	1.00158.05	A16S
ATOM	21873	C4*	C	A1039	221.272	110.287	56.895	1.00158.05	A16S
ATOM	21874	O4*	C	A1039	220.760	110.798	58.154	1.00158.05	A16S
ATOM	21875	C1*	C	A1039	219.753	109.931	58.651	1.00158.05	A16S
ATOM	21876	N1	C	A1039	218.497	110.696	58.810	1.00151.60	A16S
ATOM	21877	C6	C	A1039	218.454	112.038	58.549	1.00151.60	A16S
ATOM	21878	C2	C	A1039	217.335	110.025	59.243	1.00151.60	A16S
ATOM	21879	O2	C	A1039	217.390	108.805	59.480	1.00151.60	A16S
ATOM	21880	N3	C	A1039	216.187	110.726	59.399	1.00151.60	A16S
ATOM	21881	C4	C	A1039	216.167	112.039	59.154	1.00151.60	A16S
ATOM	21882	N4	C	A1039	215.015	112.694	59.344	1.00151.60	A16S
ATOM	21883	C5	C	A1039	217.325	112.742	58.709	1.00151.60	A16S
ATOM	21884	C2*	C	A1039	219.634	108.754	57.681	1.00158.05	A16S
ATOM	21885	O2*	C	A1039	220.405	107.672	58.167	1.00158.05	A16S
ATOM	21886	C3*	C	A1039	220.181	109.357	56.393	1.00158.05	A16S
ATOM	21887	O3*	C	A1039	220.687	108.371	55.502	1.00158.05	A16S
ATOM	21888	P	U	A1040	219.672	107.577	54.536	1.00172.78	A16S
ATOM	21889	O1P	U	A1040	220.496	106.726	53.639	1.00185.97	A16S
ATOM	21890	O2P	U	A1040	218.704	108.544	53.950	1.00185.97	A16S
ATOM	21891	O5*	U	A1040	218.873	106.614	55.522	1.00172.78	A16S
ATOM	21892	C5*	U	A1040	219.563	105.631	56.314	1.00172.78	A16S
ATOM	21893	C4*	U	A1040	218.600	104.952	57.254	1.00172.78	A16S
ATOM	21894	O4*	U	A1040	218.068	105.919	58.197	1.00172.78	A16S
ATOM	21895	C1*	U	A1040	216.719	105.598	58.497	1.00172.78	A16S
ATOM	21896	N1	U	A1040	215.862	106.747	58.154	1.00185.97	A16S
ATOM	21897	C6	U	A1040	216.245	107.690	57.223	1.00185.97	A16S
ATOM	21898	C2	U	A1040	214.645	106.855	58.807	1.00185.97	A16S
ATOM	21899	O2	U	A1040	214.249	106.030	59.613	1.00185.97	A16S
ATOM	21900	N3	U	A1040	213.902	107.962	58.475	1.00185.97	A16S
ATOM	21901	C4	U	A1040	214.234	108.946	57.571	1.00185.97	A16S
ATOM	21902	O4	U	A1040	213.470	109.900	57.409	1.00185.97	A16S
ATOM	21903	C5	U	A1040	215.492	108.755	56.919	1.00185.97	A16S
ATOM	21904	C2*	U	A1040	216.356	104.328	57.728	1.00172.78	A16S
ATOM	21905	O2*	U	A1040	216.509	103.204	58.569	1.00172.78	A16S
ATOM	21906	C3*	U	A1040	217.371	104.353	56.595	1.00172.78	A16S
ATOM	21907	O3*	U	A1040	217.627	103.061	56.071	1.00172.78	A16S
ATOM	21908	P	A	A1041	216.926	102.614	54.698	1.00185.64	A16S
ATOM	21909	O1P	A	A1041	217.721	101.485	54.153	1.00198.26	A16S
ATOM	21910	O2P	A	A1041	216.716	103.831	53.869	1.00198.26	A16S
ATOM	21911	O5*	A	A1041	215.497	102.067	55.150	1.00185.64	A16S
ATOM	21912	C5*	A	A1041	215.372	100.835	55.896	1.00185.64	A16S
ATOM	21913	C4*	A	A1041	214.017	100.761	56.563	1.00185.64	A16S
ATOM	21914	O4*	A	A1041	213.880	101.893	57.456	1.00185.64	A16S
ATOM	21915	C1*	A	A1041	212.548	102.364	57.433	1.00185.64	A16S
ATOM	21916	N9	A	A1041	212.567	103.762	57.005	1.00198.26	A16S
ATOM	21917	C4	A	A1041	211.580	104.691	57.222	1.00198.26	A16S
ATOM	21918	N3	A	A1041	210.402	104.499	57.839	1.00198.26	A16S
ATOM	21919	C2	A	A1041	209.698	105.628	57.867	1.00198.26	A16S
ATOM	21920	N1	A	A1041	210.017	106.838	57.389	1.00198.26	A16S
ATOM	21921	C6	A	A1041	211.210	106.999	56.776	1.00198.26	A16S
ATOM	21922	N6	A	A1041	211.529	108.208	56.305	1.00198.26	A16S
ATOM	21923	C5	A	A1041	212.047	105.873	56.674	1.00198.26	A16S
ATOM	21924	N7	A	A1041	213.300	105.689	56.107	1.00198.26	A16S
ATOM	21925	C8	A	A1041	213.560	104.424	56.326	1.00198.26	A16S
ATOM	21926	C2*	A	A1041	211.732	101.445	56.522	1.00185.64	A16S
ATOM	21927	O2*	A	A1041	211.071	100.483	57.318	1.00185.64	A16S
ATOM	21928	C3*	A	A1041	212.814	100.842	55.632	1.00185.64	A16S
ATOM	21929	O3*	A	A1041	212.445	99.544	55.163	1.00185.64	A16S
ATOM	21930	P	G	A1042	212.026	99.334	53.622	1.00198.94	A16S
ATOM	21931	O1P	G	A1042	211.908	97.863	53.410	1.00178.42	A16S
ATOM	21932	O2P	G	A1042	212.965	100.121	52.777	1.00178.42	A16S
ATOM	21933	O5*	G	A1042	210.570	99.987	53.508	1.00198.94	A16S
ATOM	21934	C5*	G	A1042	209.387	99.184	53.708	1.00198.94	A16S
ATOM	21935	C4*	G	A1042	208.180	100.049	54.021	1.00198.94	A16S
ATOM	21936	O4*	G	A1042	208.520	101.015	55.053	1.00198.94	A16S
ATOM	21937	C1*	G	A1042	207.660	102.139	54.945	1.00198.94	A16S
ATOM	21938	N9	G	A1042	208.437	103.364	54.799	1.00178.42	A16S



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ATOM	21939	C4	G	A1042	207.906	104.630	54.771	1.00178.42	A16S
ATOM	21940	N3	G	A1042	206.594	104.938	54.879	1.00178.42	A16S
ATOM	21941	C2	G	A1042	206.382	106.240	54.815	1.00178.42	A16S
ATOM	21942	N2	G	A1042	205.129	106.718	54.901	1.00178.42	A16S
ATOM	21943	N1	G	A1042	207.380	107.170	54.661	1.00178.42	A16S
ATOM	21944	C6	G	A1042	208.737	106.878	54.547	1.00178.42	A16S
ATOM	21945	O6	G	A1042	209.554	107.798	54.414	1.00178.42	A16S
ATOM	21946	C5	G	A1042	208.978	105.475	54.609	1.00178.42	A16S
ATOM	21947	N7	G	A1042	210.164	104.756	54.534	1.00178.42	A16S
ATOM	21948	C8	G	A1042	209.796	103.509	54.654	1.00178.42	A16S
ATOM	21949	C2*	G	A1042	206.778	101.939	53.718	1.00198.94	A16S
ATOM	21950	O2*	G	A1042	205.509	101.475	54.133	1.00198.94	A16S
ATOM	21951	C3*	G	A1042	207.574	100.912	52.921	1.00198.94	A16S
ATOM	21952	O3*	G	A1042	206.699	100.204	52.051	1.00198.94	A16S
ATOM	21953	P	C	A1043	206.257	100.873	50.650	1.00190.65	A16S
ATOM	21954	O1P	C	A1043	205.171	100.025	50.083	1.00198.94	A16S
ATOM	21955	O2P	C	A1043	207.486	101.122	49.852	1.00198.94	A16S
ATOM	21956	O5*	C	A1043	205.632	102.292	51.047	1.00190.65	A16S
ATOM	21957	C5*	C	A1043	204.338	102.383	51.681	1.00190.65	A16S
ATOM	21958	C4*	C	A1043	203.806	103.801	51.632	1.00190.65	A16S
ATOM	21959	O4*	C	A1043	204.666	104.696	52.379	1.00190.65	A16S
ATOM	21960	C1*	C	A1043	204.536	106.007	51.857	1.00190.65	A16S
ATOM	21961	N1	C	A1043	205.868	106.589	51.616	1.00198.94	A16S
ATOM	21962	C6	C	A1043	206.959	105.803	51.364	1.00198.94	A16S
ATOM	21963	C2	C	A1043	205.994	107.987	51.640	1.00198.94	A16S
ATOM	21964	O2	C	A1043	204.990	108.676	51.881	1.00198.94	A16S
ATOM	21965	N3	C	A1043	207.201	108.549	51.402	1.00198.94	A16S
ATOM	21966	C4	C	A1043	208.258	107.775	51.149	1.00198.94	A16S
ATOM	21967	N4	C	A1043	209.429	108.377	50.909	1.00198.94	A16S
ATOM	21968	C5	C	A1043	208.163	106.349	51.127	1.00198.94	A16S
ATOM	21969	C2*	C	A1043	203.670	105.945	50.598	1.00190.65	A16S
ATOM	21970	O2*	C	A1043	202.381	106.437	50.898	1.00190.65	A16S
ATOM	21971	C3*	C	A1043	203.692	104.456	50.265	1.00190.65	A16S
ATOM	21972	O3*	C	A1043	202.496	104.067	49.604	1.00190.65	A16S
ATOM	21973	P	A	A1044	202.365	104.270	48.017	1.00137.17	A16S
ATOM	21974	O1P	A	A1044	201.109	103.585	47.612	1.00171.30	A16S
ATOM	21975	O2P	A	A1044	203.649	103.880	47.381	1.00171.30	A16S
ATOM	21976	O5*	A	A1044	202.169	105.842	47.836	1.00137.17	A16S
ATOM	21977	C5*	A	A1044	200.862	106.422	47.943	1.00137.17	A16S
ATOM	21978	C4*	A	A1044	200.876	107.883	47.557	1.00137.17	A16S
ATOM	21979	O4*	A	A1044	201.568	108.675	48.557	1.00137.17	A16S
ATOM	21980	C1*	A	A1044	202.061	109.860	47.954	1.00137.17	A16S
ATOM	21981	N9	A	A1044	203.504	109.949	48.169	1.00171.30	A16S
ATOM	21982	C4	A	A1044	204.250	111.098	48.045	1.00171.30	A16S
ATOM	21983	N3	A	A1044	203.804	112.334	47.750	1.00171.30	A16S
ATOM	21984	C2	A	A1044	204.816	113.196	47.684	1.00171.30	A16S
ATOM	21985	N1	A	A1044	206.125	112.979	47.864	1.00171.30	A16S
ATOM	21986	C6	A	A1044	206.540	111.726	48.161	1.00171.30	A16S
ATOM	21987	N6	A	A1044	207.847	111.507	48.336	1.00171.30	A16S
ATOM	21988	C5	A	A1044	205.561	110.720	48.265	1.00171.30	A16S
ATOM	21989	N7	A	A1044	205.640	109.362	48.549	1.00171.30	A16S
ATOM	21990	C8	A	A1044	204.396	108.954	48.487	1.00171.30	A16S
ATOM	21991	C2*	A	A1044	201.749	109.786	46.460	1.00137.17	A16S
ATOM	21992	O2*	A	A1044	200.602	110.558	46.158	1.00137.17	A16S
ATOM	21993	C3*	A	A1044	201.537	108.291	46.253	1.00137.17	A16S
ATOM	21994	O3*	A	A1044	200.722	108.055	45.117	1.00137.17	A16S
ATOM	21995	P	C	A1045	201.408	107.632	43.724	1.00146.11	A16S
ATOM	21996	O1P	C	A1045	200.340	107.726	42.692	1.00129.77	A16S
ATOM	21997	O2P	C	A1045	202.129	106.342	43.922	1.00129.77	A16S
ATOM	21998	O5*	C	A1045	202.499	108.766	43.438	1.00146.11	A16S
ATOM	21999	C5*	C	A1045	202.145	110.162	43.476	1.00146.11	A16S
ATOM	22000	C4*	C	A1045	203.340	111.009	43.868	1.00146.11	A16S
ATOM	22001	O4*	C	A1045	204.193	110.271	44.785	1.00146.11	A16S
ATOM	22002	C1*	C	A1045	205.548	110.663	44.604	1.00146.11	A16S
ATOM	22003	N1	C	A1045	206.350	109.487	44.217	1.00129.77	A16S
ATOM	22004	C6	C	A1045	205.746	108.333	43.799	1.00129.77	A16S
ATOM	22005	C2	C	A1045	207.758	109.567	44.278	1.00129.77	A16S
ATOM	22006	O2	C	A1045	208.292	110.627	44.650	1.00129.77	A16S
ATOM	22007	N3	C	A1045	208.493	108.490	43.925	1.00129.77	A16S
ATOM	22008	C4	C	A1045	207.886	107.371	43.522	1.00129.77	A16S
ATOM	22009	N4	C	A1045	208.648	106.333	43.186	1.00129.77	A16S
ATOM	22010	C5	C	A1045	206.467	107.264	43.447	1.00129.77	A16S
ATOM	22011	C2*	C	A1045	205.572	111.733	43.521	1.00146.11	A16S
ATOM	22012	O2*	C	A1045	205.523	113.005	44.131	1.00146.11	A16S
ATOM	22013	C3*	C	A1045	204.291	111.428	42.761	1.00146.11	A16S
ATOM	22014	O3*	C	A1045	203.847	112.592	42.092	1.00146.11	A16S
ATOM	22015	P	A	A1046	204.550	113.016	40.715	1.00128.09	A16S



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ATOM	22016	O1P	A	A1046	204.011	114.352	40.330	1.00	92.76	A16S
ATOM	22017	O2P	A	A1046	204.415	111.855	39.785	1.00	92.76	A16S
ATOM	22018	O5*	A	A1046	206.090	113.172	41.101	1.00128.09		A16S
ATOM	22019	C5*	A	A1046	207.113	113.141	40.087	1.00128.09		A16S
ATOM	22020	C4*	A	A1046	208.476	113.362	40.701	1.00128.09		A16S
ATOM	22021	O4*	A	A1046	208.799	112.261	41.588	1.00128.09		A16S
ATOM	22022	C1*	A	A1046	210.180	111.955	41.487	1.00128.09		A16S
ATOM	22023	N9	A	A1046	210.302	110.602	40.952	1.00	92.76	A16S
ATOM	22024	C4	A	A1046	211.470	109.913	40.718	1.00	92.76	A16S
ATOM	22025	N3	A	A1046	212.728	110.339	40.928	1.00	92.76	A16S
ATOM	22026	C2	A	A1046	213.608	109.393	40.590	1.00	92.76	A16S
ATOM	22027	N1	A	A1046	213.388	108.160	40.106	1.00	92.76	A16S
ATOM	22028	C6	A	A1046	212.110	107.764	39.910	1.00	92.76	A16S
ATOM	22029	N6	A	A1046	211.883	106.533	39.440	1.00	92.76	A16S
ATOM	22030	C5	A	A1046	211.085	108.678	40.221	1.00	92.76	A16S
ATOM	22031	N7	A	A1046	209.703	108.594	40.134	1.00	92.76	A16S
ATOM	22032	C8	A	A1046	209.288	109.756	40.578	1.00	92.76	A16S
ATOM	22033	C2*	A	A1046	210.812	112.976	40.546	1.00128.09		A16S
ATOM	22034	O2*	A	A1046	211.310	114.070	41.282	1.00128.09		A16S
ATOM	22035	C3*	A	A1046	209.619	113.377	39.702	1.00128.09		A16S
ATOM	22036	O3*	A	A1046	209.804	114.651	39.131	1.00128.09		A16S
ATOM	22037	P	G	A1047	209.852	114.788	37.538	1.00	98.29	A16S
ATOM	22038	O1P	G	A1047	210.274	116.183	37.250	1.00	79.99	A16S
ATOM	22039	O2P	G	A1047	208.560	114.281	37.001	1.00	79.99	A16S
ATOM	22040	O5*	G	A1047	210.995	113.767	37.092	1.00	98.29	A16S
ATOM	22041	C5*	G	A1047	212.380	114.018	37.394	1.00	98.29	A16S
ATOM	22042	C4*	G	A1047	213.226	112.828	37.000	1.00	98.29	A16S
ATOM	22043	O4*	G	A1047	212.813	111.676	37.778	1.00	98.29	A16S
ATOM	22044	C1*	G	A1047	212.868	110.508	36.977	1.00	98.29	A16S
ATOM	22045	N9	G	A1047	211.502	110.054	36.766	1.00	79.99	A16S
ATOM	22046	C4	G	A1047	211.119	108.840	36.262	1.00	79.99	A16S
ATOM	22047	N3	G	A1047	211.947	107.837	35.901	1.00	79.99	A16S
ATOM	22048	C2	G	A1047	211.280	106.796	35.420	1.00	79.99	A16S
ATOM	22049	N2	G	A1047	211.947	105.714	34.994	1.00	79.99	A16S
ATOM	22050	N1	G	A1047	209.907	106.741	35.316	1.00	79.99	A16S
ATOM	22051	C6	G	A1047	209.034	107.762	35.684	1.00	79.99	A16S
ATOM	22052	O6	G	A1047	207.807	107.612	35.546	1.00	79.99	A16S
ATOM	22053	C5	G	A1047	209.741	108.891	36.194	1.00	79.99	A16S
ATOM	22054	N7	G	A1047	209.271	110.111	36.663	1.00	79.99	A16S
ATOM	22055	C8	G	A1047	210.348	110.764	36.997	1.00	79.99	A16S
ATOM	22056	C2*	G	A1047	213.469	110.897	35.632	1.00	98.29	A16S
ATOM	22057	O2*	G	A1047	214.860	110.653	35.642	1.00	98.29	A16S
ATOM	22058	C3*	G	A1047	213.096	112.371	35.555	1.00	98.29	A16S
ATOM	22059	O3*	G	A1047	213.929	113.098	34.666	1.00	98.29	A16S
ATOM	22060	P	G	A1048	213.440	113.348	33.156	1.00	89.23	A16S
ATOM	22061	O1P	G	A1048	214.514	114.138	32.497	1.00	92.61	A16S
ATOM	22062	O2P	G	A1048	212.056	113.881	33.196	1.00	92.61	A16S
ATOM	22063	O5*	G	A1048	213.384	111.889	32.510	1.00	89.23	A16S
ATOM	22064	C5*	G	A1048	214.601	111.203	32.173	1.00	89.23	A16S
ATOM	22065	C4*	G	A1048	214.330	110.011	31.284	1.00	89.23	A16S
ATOM	22066	O4*	G	A1048	213.733	108.932	32.051	1.00	89.23	A16S
ATOM	22067	C1*	G	A1048	212.893	108.162	31.210	1.00	89.23	A16S
ATOM	22068	N9	G	A1048	211.514	108.356	31.632	1.00	92.61	A16S
ATOM	22069	C4	G	A1048	210.465	107.510	31.382	1.00	92.61	A16S
ATOM	22070	N3	G	A1048	210.550	106.299	30.799	1.00	92.61	A16S
ATOM	22071	C2	G	A1048	209.361	105.756	30.623	1.00	92.61	A16S
ATOM	22072	N2	G	A1048	209.260	104.552	30.057	1.00	92.61	A16S
ATOM	22073	N1	G	A1048	208.180	106.355	30.988	1.00	92.61	A16S
ATOM	22074	C6	G	A1048	208.070	107.603	31.590	1.00	92.61	A16S
ATOM	22075	O6	G	A1048	206.952	108.064	31.861	1.00	92.61	A16S
ATOM	22076	C5	G	A1048	209.341	108.191	31.796	1.00	92.61	A16S
ATOM	22077	N7	G	A1048	209.685	109.410	32.363	1.00	92.61	A16S
ATOM	22078	C8	G	A1048	210.984	109.456	32.264	1.00	92.61	A16S
ATOM	22079	C2*	G	A1048	213.008	108.748	29.803	1.00	89.23	A16S
ATOM	22080	O2*	G	A1048	213.995	108.040	29.084	1.00	89.23	A16S
ATOM	22081	C3*	G	A1048	213.385	110.191	30.108	1.00	89.23	A16S
ATOM	22082	O3*	G	A1048	213.953	110.876	28.999	1.00	89.23	A16S
ATOM	22083	P	U	A1049	213.259	112.239	28.472	1.00	85.24	A16S
ATOM	22084	O1P	U	A1049	213.995	113.387	29.082	1.00	86.71	A16S
ATOM	22085	O2P	U	A1049	211.788	112.130	28.670	1.00	86.71	A16S
ATOM	22086	O5*	U	A1049	213.548	112.274	26.900	1.00	85.24	A16S
ATOM	22087	C5*	U	A1049	213.396	111.092	26.067	1.00	85.24	A16S
ATOM	22088	C4*	U	A1049	214.714	110.748	25.409	1.00	85.24	A16S
ATOM	22089	O4*	U	A1049	215.111	111.818	24.529	1.00	85.24	A16S
ATOM	22090	C1*	U	A1049	216.516	111.938	24.535	1.00	85.24	A16S
ATOM	22091	N1	U	A1049	216.863	113.363	24.495	1.00	86.71	A16S
ATOM	22092	C6	U	A1049	216.027	114.317	25.014	1.00	86.71	A16S



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ATOM	22093	C2	U	A1049	218.049	113.716	23.882	1.00	86.71	A16S
ATOM	22094	O2	U	A1049	218.844	112.896	23.443	1.00	86.71	A16S
ATOM	22095	N3	U	A1049	218.275	115.067	23.798	1.00	86.71	A16S
ATOM	22096	C4	U	A1049	217.458	116.072	24.263	1.00	86.71	A16S
ATOM	22097	O4	U	A1049	217.745	117.241	24.021	1.00	86.71	A16S
ATOM	22098	C5	U	A1049	216.274	115.622	24.919	1.00	86.71	A16S
ATOM	22099	C2*	U	A1049	217.105	111.091	25.664	1.00	85.24	A16S
ATOM	22100	O2*	U	A1049	217.946	110.096	25.137	1.00	85.24	A16S
ATOM	22101	C3*	U	A1049	215.855	110.599	26.399	1.00	85.24	A16S
ATOM	22102	O3*	U	A1049	215.870	109.250	26.891	1.00	85.24	A16S
ATOM	22103	P	G	A1050	216.176	108.015	25.898	1.00	91.75	A16S
ATOM	22104	O1P	G	A1050	217.202	107.174	26.567	1.00	83.33	A16S
ATOM	22105	O2P	G	A1050	216.419	108.495	24.518	1.00	83.33	A16S
ATOM	22106	O5*	G	A1050	214.819	107.174	25.851	1.00	91.75	A16S
ATOM	22107	C5*	G	A1050	214.882	105.796	25.457	1.00	91.75	A16S
ATOM	22108	C4*	G	A1050	213.514	105.191	25.185	1.00	91.75	A16S
ATOM	22109	O4*	G	A1050	212.733	105.040	26.399	1.00	91.75	A16S
ATOM	22110	C1*	G	A1050	211.387	104.778	26.039	1.00	91.75	A16S
ATOM	22111	N9	G	A1050	210.496	105.773	26.623	1.00	83.33	A16S
ATOM	22112	C4	G	A1050	209.129	105.682	26.628	1.00	83.33	A16S
ATOM	22113	N3	G	A1050	208.412	104.636	26.168	1.00	83.33	A16S
ATOM	22114	C2	G	A1050	207.118	104.854	26.249	1.00	83.33	A16S
ATOM	22115	N2	G	A1050	206.269	103.909	25.827	1.00	83.33	A16S
ATOM	22116	N1	G	A1050	206.564	106.013	26.748	1.00	83.33	A16S
ATOM	22117	C6	G	A1050	207.286	107.102	27.233	1.00	83.33	A16S
ATOM	22118	O6	G	A1050	206.691	108.099	27.659	1.00	83.33	A16S
ATOM	22119	C5	G	A1050	208.683	106.875	27.149	1.00	83.33	A16S
ATOM	22120	N7	G	A1050	209.751	107.685	27.508	1.00	83.33	A16S
ATOM	22121	C8	G	A1050	210.807	106.983	27.192	1.00	83.33	A16S
ATOM	22122	C2*	G	A1050	211.286	104.931	24.522	1.00	91.75	A16S
ATOM	22123	O2*	G	A1050	211.344	103.648	23.931	1.00	91.75	A16S
ATOM	22124	C3*	G	A1050	212.512	105.780	24.203	1.00	91.75	A16S
ATOM	22125	O3*	G	A1050	212.822	105.601	22.825	1.00	91.75	A16S
ATOM	22126	P	C	A1051	211.976	106.409	21.712	1.00	85.07	A16S
ATOM	22127	O1P	C	A1051	212.629	106.232	20.388	1.00	88.02	A16S
ATOM	22128	O2P	C	A1051	211.725	107.784	22.231	1.00	88.02	A16S
ATOM	22129	O5*	C	A1051	210.575	105.658	21.646	1.00	85.07	A16S
ATOM	22130	C5*	C	A1051	210.441	104.380	20.997	1.00	85.07	A16S
ATOM	22131	C4*	C	A1051	208.986	104.106	20.686	1.00	85.07	A16S
ATOM	22132	O4*	C	A1051	208.218	104.116	21.920	1.00	85.07	A16S
ATOM	22133	C1*	C	A1051	206.940	104.690	21.687	1.00	85.07	A16S
ATOM	22134	N1	C	A1051	206.781	105.892	22.539	1.00	88.02	A16S
ATOM	22135	C6	C	A1051	207.871	106.580	23.002	1.00	88.02	A16S
ATOM	22136	C2	C	A1051	205.487	106.331	22.855	1.00	88.02	A16S
ATOM	22137	O2	C	A1051	204.514	105.675	22.455	1.00	88.02	A16S
ATOM	22138	N3	C	A1051	205.333	107.455	23.591	1.00	88.02	A16S
ATOM	22139	C4	C	A1051	206.404	108.127	24.018	1.00	88.02	A16S
ATOM	22140	N4	C	A1051	206.205	109.241	24.722	1.00	88.02	A16S
ATOM	22141	C5	C	A1051	207.728	107.691	23.738	1.00	88.02	A16S
ATOM	22142	C2*	C	A1051	206.840	105.015	20.196	1.00	85.07	A16S
ATOM	22143	O2*	C	A1051	206.195	103.955	19.520	1.00	85.07	A16S
ATOM	22144	C3*	C	A1051	208.306	105.143	19.805	1.00	85.07	A16S
ATOM	22145	O3*	C	A1051	208.505	104.874	18.426	1.00	85.07	A16S
ATOM	22146	P	U	A1052	208.226	106.031	17.346	1.00	80.37	A16S
ATOM	22147	O1P	U	A1052	208.435	105.421	16.004	1.00	98.32	A16S
ATOM	22148	O2P	U	A1052	208.978	107.256	17.724	1.00	98.32	A16S
ATOM	22149	O5*	U	A1052	206.678	106.356	17.520	1.00	80.37	A16S
ATOM	22150	C5*	U	A1052	205.671	105.437	17.063	1.00	80.37	A16S
ATOM	22151	C4*	U	A1052	204.304	106.005	17.327	1.00	80.37	A16S
ATOM	22152	O4*	U	A1052	204.147	106.200	18.757	1.00	80.37	A16S
ATOM	22153	C1*	U	A1052	203.358	107.354	18.997	1.00	80.37	A16S
ATOM	22154	N1	U	A1052	204.107	108.300	19.844	1.00	98.32	A16S
ATOM	22155	C6	U	A1052	205.477	108.254	19.946	1.00	98.32	A16S
ATOM	22156	C2	U	A1052	203.382	109.270	20.525	1.00	98.32	A16S
ATOM	22157	O2	U	A1052	202.167	109.322	20.509	1.00	98.32	A16S
ATOM	22158	N3	U	A1052	204.135	110.175	21.231	1.00	98.32	A16S
ATOM	22159	C4	U	A1052	205.504	110.208	21.340	1.00	98.32	A16S
ATOM	22160	O4	U	A1052	206.042	111.160	21.908	1.00	98.32	A16S
ATOM	22161	C5	U	A1052	206.181	109.150	20.652	1.00	98.32	A16S
ATOM	22162	C2*	U	A1052	202.972	107.946	17.638	1.00	80.37	A16S
ATOM	22163	O2*	U	A1052	201.666	107.519	17.304	1.00	80.37	A16S
ATOM	22164	C3*	U	A1052	204.050	107.376	16.719	1.00	80.37	A16S
ATOM	22165	O3*	U	A1052	203.604	107.275	15.364	1.00	80.37	A16S
ATOM	22166	P	G	A1053	204.369	108.082	14.184	1.00	73.44	A16S
ATOM	22167	O1P	G	A1053	203.429	108.064	13.016	1.00	72.84	A16S
ATOM	22168	O2P	G	A1053	205.760	107.572	14.023	1.00	72.84	A16S
ATOM	22169	O5*	G	A1053	204.470	109.589	14.687	1.00	73.44	A16S



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ATOM	22170	C5*	G	A1053	204.984	110.600	13.812	1.00	73.44	A16S
ATOM	22171	C4*	G	A1053	204.092	111.811	13.832	1.00	73.44	A16S
ATOM	22172	O4*	G	A1053	204.464	112.656	14.950	1.00	73.44	A16S
ATOM	22173	C1*	G	A1053	204.723	113.962	14.479	1.00	73.44	A16S
ATOM	22174	N9	G	A1053	205.755	114.595	15.286	1.00	72.84	A16S
ATOM	22175	C4	G	A1053	205.620	115.800	15.907	1.00	72.84	A16S
ATOM	22176	N3	G	A1053	204.518	116.576	15.878	1.00	72.84	A16S
ATOM	22177	C2	G	A1053	204.685	117.688	16.548	1.00	72.84	A16S
ATOM	22178	N2	G	A1053	203.692	118.572	16.600	1.00	72.84	A16S
ATOM	22179	N1	G	A1053	205.843	118.012	17.212	1.00	72.84	A16S
ATOM	22180	C6	G	A1053	206.989	117.217	17.260	1.00	72.84	A16S
ATOM	22181	O6	G	A1053	207.981	117.591	17.898	1.00	72.84	A16S
ATOM	22182	C5	G	A1053	206.823	116.030	16.530	1.00	72.84	A16S
ATOM	22183	N7	G	A1053	207.704	114.982	16.305	1.00	72.84	A16S
ATOM	22184	C8	G	A1053	207.025	114.150	15.565	1.00	72.84	A16S
ATOM	22185	C2*	G	A1053	205.121	113.822	13.022	1.00	73.44	A16S
ATOM	22186	O2*	G	A1053	204.869	115.027	12.323	1.00	73.44	A16S
ATOM	22187	C3*	G	A1053	204.212	112.687	12.589	1.00	73.44	A16S
ATOM	22188	O3*	G	A1053	202.953	113.242	12.237	1.00	73.44	A16S
ATOM	22189	P	C	A1054	202.566	113.359	10.694	1.00	86.98	A16S
ATOM	22190	O1P	C	A1054	203.719	114.023	10.055	1.00	103.44	A16S
ATOM	22191	O2P	C	A1054	201.215	113.961	10.579	1.00	103.44	A16S
ATOM	22192	O5*	C	A1054	202.517	111.829	10.261	1.00	86.98	A16S
ATOM	22193	C5*	C	A1054	202.345	110.800	11.273	1.00	86.98	A16S
ATOM	22194	C4*	C	A1054	200.902	110.743	11.696	1.00	86.98	A16S
ATOM	22195	O4*	C	A1054	200.165	110.061	10.646	1.00	86.98	A16S
ATOM	22196	C1*	C	A1054	199.083	109.352	11.202	1.00	86.98	A16S
ATOM	22197	N1	C	A1054	199.285	107.913	10.947	1.00	103.44	A16S
ATOM	22198	C6	C	A1054	199.865	107.113	11.898	1.00	103.44	A16S
ATOM	22199	C2	C	A1054	198.856	107.362	9.718	1.00	103.44	A16S
ATOM	22200	O2	C	A1054	198.369	108.105	8.847	1.00	103.44	A16S
ATOM	22201	N3	C	A1054	198.993	106.029	9.516	1.00	103.44	A16S
ATOM	22202	C4	C	A1054	199.545	105.257	10.467	1.00	103.44	A16S
ATOM	22203	N4	C	A1054	199.655	103.941	10.230	1.00	103.44	A16S
ATOM	22204	C5	C	A1054	200.010	105.798	11.705	1.00	103.44	A16S
ATOM	22205	C2*	C	A1054	199.066	109.687	12.690	1.00	86.98	A16S
ATOM	22206	O2*	C	A1054	198.311	110.871	12.846	1.00	86.98	A16S
ATOM	22207	C3*	C	A1054	200.532	109.981	12.958	1.00	86.98	A16S
ATOM	22208	O3*	C	A1054	200.657	110.758	14.155	1.00	86.98	A16S
ATOM	22209	P	A	A1055	200.330	110.078	15.595	1.00	72.19	A16S
ATOM	22210	O1P	A	A1055	201.386	110.500	16.528	1.00	84.46	A16S
ATOM	22211	O2P	A	A1055	200.042	108.617	15.415	1.00	84.46	A16S
ATOM	22212	O5*	A	A1055	199.006	110.804	16.104	1.00	72.19	A16S
ATOM	22213	C5*	A	A1055	197.708	110.306	15.738	1.00	72.19	A16S
ATOM	22214	C4*	A	A1055	196.625	111.060	16.463	1.00	72.19	A16S
ATOM	22215	O4*	A	A1055	196.686	110.757	17.883	1.00	72.19	A16S
ATOM	22216	C1*	A	A1055	196.450	111.933	18.632	1.00	72.19	A16S
ATOM	22217	N9	A	A1055	197.712	112.310	19.278	1.00	84.46	A16S
ATOM	22218	C4	A	A1055	197.954	113.456	20.000	1.00	84.46	A16S
ATOM	22219	N3	A	A1055	197.084	114.433	20.293	1.00	84.46	A16S
ATOM	22220	C2	A	A1055	197.681	115.406	20.986	1.00	84.46	A16S
ATOM	22221	N1	A	A1055	198.949	115.511	21.381	1.00	84.46	A16S
ATOM	22222	C6	A	A1055	199.800	114.518	21.063	1.00	84.46	A16S
ATOM	22223	N6	A	A1055	201.073	114.638	21.436	1.00	84.46	A16S
ATOM	22224	C5	A	A1055	199.288	113.415	20.341	1.00	84.46	A16S
ATOM	22225	N7	A	A1055	199.875	112.249	19.869	1.00	84.46	A16S
ATOM	22226	C8	A	A1055	198.901	111.628	19.256	1.00	84.46	A16S
ATOM	22227	C2*	A	A1055	195.997	113.004	17.636	1.00	72.19	A16S
ATOM	22228	O2*	A	A1055	194.593	112.929	17.472	1.00	72.19	A16S
ATOM	22229	C3*	A	A1055	196.722	112.569	16.375	1.00	72.19	A16S
ATOM	22230	O3*	A	A1055	196.109	113.078	15.205	1.00	72.19	A16S
ATOM	22231	P	U	A1056	196.670	114.436	14.548	1.00	59.44	A16S
ATOM	22232	O1P	U	A1056	195.680	114.947	13.550	1.00	84.72	A16S
ATOM	22233	O2P	U	A1056	198.075	114.184	14.126	1.00	84.72	A16S
ATOM	22234	O5*	U	A1056	196.699	115.475	15.755	1.00	59.44	A16S
ATOM	22235	C5*	U	A1056	197.438	116.696	15.633	1.00	59.44	A16S
ATOM	22236	C4*	U	A1056	197.387	117.472	16.919	1.00	59.44	A16S
ATOM	22237	O4*	U	A1056	197.985	116.696	17.989	1.00	59.44	A16S
ATOM	22238	C1*	U	A1056	198.681	117.560	18.876	1.00	59.44	A16S
ATOM	22239	N1	U	A1056	200.079	117.105	18.986	1.00	84.72	A16S
ATOM	22240	C6	U	A1056	200.510	115.963	18.355	1.00	84.72	A16S
ATOM	22241	C2	U	A1056	200.959	117.874	19.733	1.00	84.72	A16S
ATOM	22242	O2	U	A1056	200.623	118.881	20.322	1.00	84.72	A16S
ATOM	22243	N3	U	A1056	202.252	117.420	19.756	1.00	84.72	A16S
ATOM	22244	C4	U	A1056	202.752	116.301	19.124	1.00	84.72	A16S
ATOM	22245	O4	U	A1056	203.969	116.088	19.138	1.00	84.72	A16S
ATOM	22246	C5	U	A1056	201.779	115.546	18.396	1.00	84.72	A16S



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ATOM	22247	C2*	U	A1056	198.533	118.992	18.345	1.00	59.44	A16S
ATOM	22248	O2*	U	A1056	197.508	119.677	19.033	1.00	59.44	A16S
ATOM	22249	C3*	U	A1056	198.190	118.754	16.884	1.00	59.44	A16S
ATOM	22250	O3*	U	A1056	197.435	119.816	16.338	1.00	59.44	A16S
ATOM	22251	P	G	A1057	198.198	121.103	15.746	1.00	63.43	A16S
ATOM	22252	O1P	G	A1057	197.179	122.022	15.162	1.00	86.53	A16S
ATOM	22253	O2P	G	A1057	199.323	120.612	14.888	1.00	86.53	A16S
ATOM	22254	O5*	G	A1057	198.821	121.803	17.043	1.00	63.43	A16S
ATOM	22255	C5*	G	A1057	197.968	122.381	18.055	1.00	63.43	A16S
ATOM	22256	C4*	G	A1057	198.772	123.224	19.021	1.00	63.43	A16S
ATOM	22257	O4*	G	A1057	199.629	122.376	19.814	1.00	63.43	A16S
ATOM	22258	C1*	G	A1057	200.813	123.084	20.148	1.00	63.43	A16S
ATOM	22259	N9	G	A1057	201.960	122.293	19.724	1.00	86.53	A16S
ATOM	22260	C4	G	A1057	203.248	122.400	20.192	1.00	86.53	A16S
ATOM	22261	N3	G	A1057	203.681	123.256	21.141	1.00	86.53	A16S
ATOM	22262	C2	G	A1057	204.974	123.105	21.386	1.00	86.53	A16S
ATOM	22263	N2	G	A1057	205.576	123.857	22.318	1.00	86.53	A16S
ATOM	22264	N1	G	A1057	205.776	122.201	20.739	1.00	86.53	A16S
ATOM	22265	C6	G	A1057	205.352	121.320	19.753	1.00	86.53	A16S
ATOM	22266	O6	G	A1057	206.161	120.553	19.224	1.00	86.53	A16S
ATOM	22267	C5	G	A1057	203.967	121.457	19.494	1.00	86.53	A16S
ATOM	22268	N7	G	A1057	203.148	120.767	18.614	1.00	86.53	A16S
ATOM	22269	C8	G	A1057	201.971	121.296	18.783	1.00	86.53	A16S
ATOM	22270	C2*	G	A1057	200.756	124.465	19.494	1.00	63.43	A16S
ATOM	22271	O2*	G	A1057	200.393	125.434	20.451	1.00	63.43	A16S
ATOM	22272	C3*	G	A1057	199.701	124.262	18.415	1.00	63.43	A16S
ATOM	22273	O3*	G	A1057	199.011	125.466	18.173	1.00	63.43	A16S
ATOM	22274	P	G	A1058	199.533	126.456	17.033	1.00	63.75	A16S
ATOM	22275	O1P	G	A1058	198.825	127.754	17.194	1.00	75.06	A16S
ATOM	22276	O2P	G	A1058	199.460	125.737	15.739	1.00	75.06	A16S
ATOM	22277	O5*	G	A1058	201.072	126.656	17.380	1.00	63.75	A16S
ATOM	22278	C5*	G	A1058	201.463	127.336	18.576	1.00	63.75	A16S
ATOM	22279	C4*	G	A1058	202.960	127.285	18.744	1.00	63.75	A16S
ATOM	22280	O4*	G	A1058	203.399	125.955	19.116	1.00	63.75	A16S
ATOM	22281	C1*	G	A1058	204.671	125.709	18.552	1.00	63.75	A16S
ATOM	22282	N9	G	A1058	204.564	124.549	17.678	1.00	75.06	A16S
ATOM	22283	C4	G	A1058	205.584	123.707	17.307	1.00	75.06	A16S
ATOM	22284	N3	G	A1058	206.866	123.787	17.714	1.00	75.06	A16S
ATOM	22285	C2	G	A1058	207.611	122.838	17.182	1.00	75.06	A16S
ATOM	22286	N2	G	A1058	208.909	122.759	17.494	1.00	75.06	A16S
ATOM	22287	N1	G	A1058	207.138	121.893	16.305	1.00	75.06	A16S
ATOM	22288	C6	G	A1058	205.824	121.796	15.865	1.00	75.06	A16S
ATOM	22289	O6	G	A1058	205.504	120.917	15.057	1.00	75.06	A16S
ATOM	22290	C5	G	A1058	205.011	122.798	16.444	1.00	75.06	A16S
ATOM	22291	N7	G	A1058	203.657	123.053	16.289	1.00	75.06	A16S
ATOM	22292	C8	G	A1058	203.436	124.095	17.042	1.00	75.06	A16S
ATOM	22293	C2*	G	A1058	205.096	126.960	17.774	1.00	63.75	A16S
ATOM	22294	O2*	G	A1058	205.984	127.729	18.563	1.00	63.75	A16S
ATOM	22295	C3*	G	A1058	203.758	127.639	17.507	1.00	63.75	A16S
ATOM	22296	O3*	G	A1058	203.857	129.052	17.380	1.00	63.75	A16S
ATOM	22297	P	C	A1059	203.747	129.731	15.933	1.00	66.54	A16S
ATOM	22298	O1P	C	A1059	203.680	131.208	16.099	1.00	94.25	A16S
ATOM	22299	O2P	C	A1059	202.667	129.026	15.202	1.00	94.25	A16S
ATOM	22300	O5*	C	A1059	205.146	129.363	15.276	1.00	66.54	A16S
ATOM	22301	C5*	C	A1059	206.363	129.723	15.949	1.00	66.54	A16S
ATOM	22302	C4*	C	A1059	207.523	128.874	15.473	1.00	66.54	A16S
ATOM	22303	O4*	C	A1059	207.384	127.510	15.949	1.00	66.54	A16S
ATOM	22304	C1*	C	A1059	207.914	126.619	14.986	1.00	66.54	A16S
ATOM	22305	N1	C	A1059	206.808	125.783	14.480	1.00	94.25	A16S
ATOM	22306	C6	C	A1059	205.563	126.314	14.282	1.00	94.25	A16S
ATOM	22307	C2	C	A1059	207.051	124.437	14.191	1.00	94.25	A16S
ATOM	22308	O2	C	A1059	208.181	123.972	14.393	1.00	94.25	A16S
ATOM	22309	N3	C	A1059	206.047	123.672	13.700	1.00	94.25	A16S
ATOM	22310	C4	C	A1059	204.838	124.202	13.505	1.00	94.25	A16S
ATOM	22311	N4	C	A1059	203.871	123.407	13.023	1.00	94.25	A16S
ATOM	22312	C5	C	A1059	204.560	125.568	13.799	1.00	94.25	A16S
ATOM	22313	C2*	C	A1059	208.543	127.470	13.878	1.00	66.54	A16S
ATOM	22314	O2*	C	A1059	209.897	127.745	14.190	1.00	66.54	A16S
ATOM	22315	C3*	C	A1059	207.720	128.742	13.970	1.00	66.54	A16S
ATOM	22316	O3*	C	A1059	208.404	129.851	13.404	1.00	66.54	A16S
ATOM	22317	P	C	A1060	208.139	130.237	11.868	1.00	66.86	A16S
ATOM	22318	O1P	C	A1060	208.862	131.518	11.577	1.00	73.54	A16S
ATOM	22319	O2P	C	A1060	206.672	130.169	11.652	1.00	73.54	A16S
ATOM	22320	O5*	C	A1060	208.843	129.031	11.076	1.00	66.86	A16S
ATOM	22321	C5*	C	A1060	210.275	128.767	11.236	1.00	66.86	A16S
ATOM	22322	C4*	C	A1060	210.735	127.577	10.397	1.00	66.86	A16S
ATOM	22323	O4*	C	A1060	210.263	126.330	10.962	1.00	66.86	A16S



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ATOM	22324	C1*	C	A1060	210.018	125.400	9.921	1.00	66.86	A16S
ATOM	22325	N1	C	A1060	208.578	125.091	9.909	1.00	73.54	A16S
ATOM	22326	C6	C	A1060	207.661	126.064	10.196	1.00	73.54	A16S
ATOM	22327	C2	C	A1060	208.154	123.795	9.580	1.00	73.54	A16S
ATOM	22328	O2	C	A1060	208.995	122.923	9.350	1.00	73.54	A16S
ATOM	22329	N3	C	A1060	206.836	123.532	9.525	1.00	73.54	A16S
ATOM	22330	C4	C	A1060	205.951	124.499	9.786	1.00	73.54	A16S
ATOM	22331	N4	C	A1060	204.653	124.206	9.690	1.00	73.54	A16S
ATOM	22332	C5	C	A1060	206.355	125.814	10.149	1.00	73.54	A16S
ATOM	22333	C2*	C	A1060	210.452	126.046	8.604	1.00	66.86	A16S
ATOM	22334	O2*	C	A1060	211.781	125.670	8.329	1.00	66.86	A16S
ATOM	22335	C3*	C	A1060	210.339	127.528	8.928	1.00	66.86	A16S
ATOM	22336	O3*	C	A1060	211.252	128.275	8.139	1.00	66.86	A16S
ATOM	22337	P	G	A1061	210.878	128.661	6.624	1.00	57.05	A16S
ATOM	22338	O1P	G	A1061	211.917	129.600	6.094	1.00	83.23	A16S
ATOM	22339	O2P	G	A1061	209.444	129.056	6.587	1.00	83.23	A16S
ATOM	22340	O5*	G	A1061	211.020	127.285	5.842	1.00	57.05	A16S
ATOM	22341	C5*	G	A1061	212.287	126.660	5.690	1.00	57.05	A16S
ATOM	22342	C4*	G	A1061	212.139	125.400	4.885	1.00	57.05	A16S
ATOM	22343	O4*	G	A1061	211.274	124.469	5.588	1.00	57.05	A16S
ATOM	22344	C1*	G	A1061	210.504	123.730	4.652	1.00	57.05	A16S
ATOM	22345	N9	G	A1061	209.084	123.950	4.930	1.00	83.23	A16S
ATOM	22346	C4	G	A1061	208.028	123.232	4.416	1.00	83.23	A16S
ATOM	22347	N3	G	A1061	208.120	122.184	3.579	1.00	83.23	A16S
ATOM	22348	C2	G	A1061	206.937	121.696	3.275	1.00	83.23	A16S
ATOM	22349	N2	G	A1061	206.842	120.643	2.472	1.00	83.23	A16S
ATOM	22350	N1	G	A1061	205.755	122.200	3.739	1.00	83.23	A16S
ATOM	22351	C6	G	A1061	205.630	123.281	4.595	1.00	83.23	A16S
ATOM	22352	O6	G	A1061	204.503	123.661	4.948	1.00	83.23	A16S
ATOM	22353	C5	G	A1061	206.897	123.811	4.946	1.00	83.23	A16S
ATOM	22354	N7	G	A1061	207.231	124.867	5.783	1.00	83.23	A16S
ATOM	22355	C8	G	A1061	208.534	124.913	5.744	1.00	83.23	A16S
ATOM	22356	C2*	G	A1061	210.915	124.196	3.255	1.00	57.05	A16S
ATOM	22357	O2*	G	A1061	211.918	123.343	2.759	1.00	57.05	A16S
ATOM	22358	C3*	G	A1061	211.474	125.578	3.540	1.00	57.05	A16S
ATOM	22359	O3*	G	A1061	212.395	125.969	2.556	1.00	57.05	A16S
ATOM	22360	P	U	A1062	211.882	126.869	1.337	1.00	63.80	A16S
ATOM	22361	O1P	U	A1062	213.018	127.003	0.379	1.00	91.32	A16S
ATOM	22362	O2P	U	A1062	211.237	128.092	1.888	1.00	91.32	A16S
ATOM	22363	O5*	U	A1062	210.737	125.973	0.681	1.00	63.80	A16S
ATOM	22364	C5*	U	A1062	211.035	124.661	0.168	1.00	63.80	A16S
ATOM	22365	C4*	U	A1062	209.788	124.005	-0.365	1.00	63.80	A16S
ATOM	22366	O4*	U	A1062	208.931	123.575	0.715	1.00	63.80	A16S
ATOM	22367	C1*	U	A1062	207.579	123.708	0.319	1.00	63.80	A16S
ATOM	22368	N1	U	A1062	206.905	124.603	1.270	1.00	91.32	A16S
ATOM	22369	C6	U	A1062	207.584	125.611	1.904	1.00	91.32	A16S
ATOM	22370	C2	U	A1062	205.558	124.406	1.499	1.00	91.32	A16S
ATOM	22371	O2	U	A1062	204.916	123.519	0.970	1.00	91.32	A16S
ATOM	22372	N3	U	A1062	204.986	125.290	2.373	1.00	91.32	A16S
ATOM	22373	C4	U	A1062	205.605	126.324	3.028	1.00	91.32	A16S
ATOM	22374	O4	U	A1062	204.940	127.058	3.759	1.00	91.32	A16S
ATOM	22375	C5	U	A1062	206.996	126.455	2.751	1.00	91.32	A16S
ATOM	22376	C2*	U	A1062	207.550	124.240	-1.120	1.00	63.80	A16S
ATOM	22377	O2*	U	A1062	207.378	123.185	-2.050	1.00	63.80	A16S
ATOM	22378	C3*	U	A1062	208.919	124.884	-1.240	1.00	63.80	A16S
ATOM	22379	O3*	U	A1062	209.381	124.825	-2.567	1.00	63.80	A16S
ATOM	22380	P	C	A1063	209.653	126.179	-3.369	1.00	37.95	A16S
ATOM	22381	O1P	C	A1063	210.948	125.985	-4.077	1.00	85.73	A16S
ATOM	22382	O2P	C	A1063	209.480	127.334	-2.456	1.00	85.73	A16S
ATOM	22383	O5*	C	A1063	208.486	126.206	-4.449	1.00	37.95	A16S
ATOM	22384	C5*	C	A1063	208.346	125.117	-5.378	1.00	37.95	A16S
ATOM	22385	C4*	C	A1063	206.894	124.838	-5.649	1.00	37.95	A16S
ATOM	22386	O4*	C	A1063	206.236	124.415	-4.428	1.00	37.95	A16S
ATOM	22387	C1*	C	A1063	204.902	124.903	-4.423	1.00	37.95	A16S
ATOM	22388	N1	C	A1063	204.711	125.731	-3.203	1.00	85.73	A16S
ATOM	22389	C6	C	A1063	205.641	126.670	-2.841	1.00	85.73	A16S
ATOM	22390	C2	C	A1063	203.553	125.550	-2.419	1.00	85.73	A16S
ATOM	22391	O2	C	A1063	202.727	124.679	-2.743	1.00	85.73	A16S
ATOM	22392	N3	C	A1063	203.370	126.330	-1.325	1.00	85.73	A16S
ATOM	22393	C4	C	A1063	204.282	127.246	-0.996	1.00	85.73	A16S
ATOM	22394	N4	C	A1063	204.054	127.993	0.080	1.00	85.73	A16S
ATOM	22395	C5	C	A1063	205.467	127.438	-1.758	1.00	85.73	A16S
ATOM	22396	C2*	C	A1063	204.675	125.675	-5.737	1.00	37.95	A16S
ATOM	22397	O2*	C	A1063	204.067	124.889	-6.744	1.00	37.95	A16S
ATOM	22398	C3*	C	A1063	206.091	126.026	-6.148	1.00	37.95	A16S
ATOM	22399	O3*	C	A1063	206.162	126.136	-7.551	1.00	37.95	A16S
ATOM	22400	P	G	A1064	205.959	127.559	-8.236	1.00	48.61	A16S



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ATOM	22401	O1P	G	A1064	204.500	127.821	-8.194	1.00	89.11	A16S
ATOM	22402	O2P	G	A1064	206.671	127.573	-9.543	1.00	89.11	A16S
ATOM	22403	O5*	G	A1064	206.715	128.546	-7.231	1.00	48.61	A16S
ATOM	22404	C5*	G	A1064	207.103	129.906	-7.607	1.00	48.61	A16S
ATOM	22405	C4*	G	A1064	207.354	130.732	-6.357	1.00	48.61	A16S
ATOM	22406	O4*	G	A1064	206.083	130.938	-5.687	1.00	48.61	A16S
ATOM	22407	C1*	G	A1064	206.128	130.323	-4.422	1.00	48.61	A16S
ATOM	22408	N9	G	A1064	204.814	129.773	-4.117	1.00	89.11	A16S
ATOM	22409	C4	G	A1064	204.089	130.047	-2.997	1.00	89.11	A16S
ATOM	22410	N3	G	A1064	204.455	130.888	-2.015	1.00	89.11	A16S
ATOM	22411	C2	G	A1064	203.574	130.920	-1.046	1.00	89.11	A16S
ATOM	22412	N2	G	A1064	203.794	131.695	0.008	1.00	89.11	A16S
ATOM	22413	N1	G	A1064	202.415	130.190	-1.038	1.00	89.11	A16S
ATOM	22414	C6	G	A1064	202.015	129.318	-2.043	1.00	89.11	A16S
ATOM	22415	O6	G	A1064	200.952	128.695	-1.933	1.00	89.11	A16S
ATOM	22416	C5	G	A1064	202.957	129.275	-3.093	1.00	89.11	A16S
ATOM	22417	N7	G	A1064	202.958	128.548	-4.271	1.00	89.11	A16S
ATOM	22418	C8	G	A1064	204.077	128.881	-4.851	1.00	89.11	A16S
ATOM	22419	C2*	G	A1064	207.258	129.294	-4.482	1.00	48.61	A16S
ATOM	22420	O2*	G	A1064	207.746	128.963	-3.207	1.00	48.61	A16S
ATOM	22421	C3*	G	A1064	208.266	130.030	-5.347	1.00	48.61	A16S
ATOM	22422	O3*	G	A1064	208.905	130.971	-4.465	1.00	48.61	A16S
ATOM	22423	P	U	A1065	210.250	131.752	-4.898	1.00	62.61	A16S
ATOM	22424	O1P	U	A1065	210.685	131.300	-6.247	1.00	77.22	A16S
ATOM	22425	O2P	U	A1065	211.206	131.710	-3.753	1.00	77.22	A16S
ATOM	22426	O5*	U	A1065	209.722	133.237	-5.078	1.00	62.61	A16S
ATOM	22427	C5*	U	A1065	208.542	133.460	-5.846	1.00	62.61	A16S
ATOM	22428	C4*	U	A1065	208.023	134.853	-5.653	1.00	62.61	A16S
ATOM	22429	O4*	U	A1065	207.607	135.111	-4.300	1.00	62.61	A16S
ATOM	22430	C1*	U	A1065	207.367	136.489	-4.218	1.00	62.61	A16S
ATOM	22431	N1	U	A1065	207.294	136.921	-2.817	1.00	77.22	A16S
ATOM	22432	C6	U	A1065	208.075	136.362	-1.843	1.00	77.22	A16S
ATOM	22433	C2	U	A1065	206.381	137.919	-2.516	1.00	77.22	A16S
ATOM	22434	O2	U	A1065	205.702	138.479	-3.359	1.00	77.22	A16S
ATOM	22435	N3	U	A1065	206.303	138.249	-1.192	1.00	77.22	A16S
ATOM	22436	C4	U	A1065	207.045	137.717	-0.163	1.00	77.22	A16S
ATOM	22437	O4	U	A1065	206.833	138.094	0.992	1.00	77.22	A16S
ATOM	22438	C5	U	A1065	207.989	136.721	-0.561	1.00	77.22	A16S
ATOM	22439	C2*	U	A1065	208.384	137.176	-5.132	1.00	62.61	A16S
ATOM	22440	O2*	U	A1065	207.682	138.139	-5.893	1.00	62.61	A16S
ATOM	22441	C3*	U	A1065	208.993	135.982	-5.896	1.00	62.61	A16S
ATOM	22442	O3*	U	A1065	209.263	136.118	-7.293	1.00	62.61	A16S
ATOM	22443	P	C	A1066	208.063	136.316	-8.354	1.00	62.05	A16S
ATOM	22444	O1P	C	A1066	208.735	136.204	-9.680	1.00	78.02	A16S
ATOM	22445	O2P	C	A1066	207.239	137.527	-8.060	1.00	78.02	A16S
ATOM	22446	O5*	C	A1066	207.138	135.030	-8.167	1.00	62.05	A16S
ATOM	22447	C5*	C	A1066	207.144	133.971	-9.144	1.00	62.05	A16S
ATOM	22448	C4*	C	A1066	205.781	133.323	-9.245	1.00	62.05	A16S
ATOM	22449	O4*	C	A1066	205.502	132.574	-8.041	1.00	62.05	A16S
ATOM	22450	C1*	C	A1066	204.111	132.521	-7.851	1.00	62.05	A16S
ATOM	22451	N1	C	A1066	203.807	132.780	-6.440	1.00	78.02	A16S
ATOM	22452	C6	C	A1066	204.681	133.452	-5.640	1.00	78.02	A16S
ATOM	22453	C2	C	A1066	202.609	132.302	-5.925	1.00	78.02	A16S
ATOM	22454	O2	C	A1066	201.820	131.720	-6.686	1.00	78.02	A16S
ATOM	22455	N3	C	A1066	202.334	132.481	-4.618	1.00	78.02	A16S
ATOM	22456	C4	C	A1066	203.202	133.117	-3.840	1.00	78.02	A16S
ATOM	22457	N4	C	A1066	202.899	133.253	-2.556	1.00	78.02	A16S
ATOM	22458	C5	C	A1066	204.422	133.638	-4.345	1.00	78.02	A16S
ATOM	22459	C2*	C	A1066	203.423	133.417	-8.887	1.00	62.05	A16S
ATOM	22460	O2*	C	A1066	202.854	132.584	-9.869	1.00	62.05	A16S
ATOM	22461	C3*	C	A1066	204.582	134.243	-9.444	1.00	62.05	A16S
ATOM	22462	O3*	C	A1066	204.396	134.469	-10.848	1.00	62.05	A16S
ATOM	22463	P	A	A1067	203.583	135.762	-11.370	1.00	64.43	A16S
ATOM	22464	O1P	A	A1067	203.272	135.562	-12.810	1.00	68.62	A16S
ATOM	22465	O2P	A	A1067	204.326	136.968	-10.958	1.00	68.62	A16S
ATOM	22466	O5*	A	A1067	202.197	135.704	-10.577	1.00	64.43	A16S
ATOM	22467	C5*	A	A1067	201.208	134.685	-10.890	1.00	64.43	A16S
ATOM	22468	C4*	A	A1067	199.793	135.231	-10.765	1.00	64.43	A16S
ATOM	22469	O4*	A	A1067	199.424	135.351	-9.372	1.00	64.43	A16S
ATOM	22470	C1*	A	A1067	199.390	136.704	-8.994	1.00	64.43	A16S
ATOM	22471	N9	A	A1067	200.424	136.856	-7.977	1.00	68.62	A16S
ATOM	22472	C4	A	A1067	200.289	136.569	-6.644	1.00	68.62	A16S
ATOM	22473	N3	A	A1067	199.188	136.135	-6.014	1.00	68.62	A16S
ATOM	22474	C2	A	A1067	199.428	135.953	-4.719	1.00	68.62	A16S
ATOM	22475	N1	A	A1067	200.560	136.138	-4.033	1.00	68.62	A16S
ATOM	22476	C6	A	A1067	201.652	136.567	-4.697	1.00	68.62	A16S
ATOM	22477	N6	A	A1067	202.785	136.730	-4.011	1.00	68.62	A16S



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ATOM	22478	C5	A	A1067	201.526	136.806	-6.080	1.00	68.62	A16S
ATOM	22479	N7	A	A1067	202.424	137.249	-7.038	1.00	68.62	A16S
ATOM	22480	C8	A	A1067	201.721	137.267	-8.140	1.00	68.62	A16S
ATOM	22481	C2*	A	A1067	199.659	137.569	-10.228	1.00	64.43	A16S
ATOM	22482	O2*	A	A1067	198.798	138.673	-10.305	1.00	64.43	A16S
ATOM	22483	C3*	A	A1067	199.534	136.589	-11.397	1.00	64.43	A16S
ATOM	22484	O3*	A	A1067	198.336	136.597	-12.209	1.00	64.43	A16S
ATOM	22485	P	G	A1068	196.878	136.388	-11.551	1.00	40.66	A16S
ATOM	22486	O1P	G	A1068	195.867	136.620	-12.618	1.00	67.90	A16S
ATOM	22487	O2P	G	A1068	196.809	137.176	-10.311	1.00	67.90	A16S
ATOM	22488	O5*	G	A1068	196.841	134.850	-11.146	1.00	40.66	A16S
ATOM	22489	C5*	G	A1068	195.730	134.326	-10.411	1.00	40.66	A16S
ATOM	22490	C4*	G	A1068	196.192	133.752	-9.092	1.00	40.66	A16S
ATOM	22491	O4*	G	A1068	196.983	134.736	-8.384	1.00	40.66	A16S
ATOM	22492	C1*	G	A1068	196.674	134.700	-6.993	1.00	40.66	A16S
ATOM	22493	N9	G	A1068	196.177	136.022	-6.597	1.00	67.90	A16S
ATOM	22494	C4	G	A1068	195.663	136.394	-5.373	1.00	67.90	A16S
ATOM	22495	N3	G	A1068	195.527	135.603	-4.291	1.00	67.90	A16S
ATOM	22496	C2	G	A1068	194.998	136.260	-3.270	1.00	67.90	A16S
ATOM	22497	N2	G	A1068	194.804	135.645	-2.097	1.00	67.90	A16S
ATOM	22498	N1	G	A1068	194.621	137.575	-3.319	1.00	67.90	A16S
ATOM	22499	C6	G	A1068	194.749	138.400	-4.424	1.00	67.90	A16S
ATOM	22500	O6	G	A1068	194.372	139.567	-4.363	1.00	67.90	A16S
ATOM	22501	C5	G	A1068	195.323	137.726	-5.511	1.00	67.90	A16S
ATOM	22502	N7	G	A1068	195.626	138.186	-6.781	1.00	67.90	A16S
ATOM	22503	C8	G	A1068	196.129	137.148	-7.388	1.00	67.90	A16S
ATOM	22504	C2*	G	A1068	195.691	133.549	-6.765	1.00	40.66	A16S
ATOM	22505	O2*	G	A1068	196.418	132.403	-6.390	1.00	40.66	A16S
ATOM	22506	C3*	G	A1068	195.056	133.404	-8.145	1.00	40.66	A16S
ATOM	22507	O3*	G	A1068	194.571	132.092	-8.400	1.00	40.66	A16S
ATOM	22508	P	C	A1069	193.004	131.786	-8.263	1.00	64.85	A16S
ATOM	22509	O1P	C	A1069	192.789	130.356	-8.584	1.00	56.62	A16S
ATOM	22510	O2P	C	A1069	192.276	132.828	-9.039	1.00	56.62	A16S
ATOM	22511	O5*	C	A1069	192.737	131.942	-6.698	1.00	64.85	A16S
ATOM	22512	C5*	C	A1069	193.307	130.999	-5.752	1.00	64.85	A16S
ATOM	22513	C4*	C	A1069	192.831	131.285	-4.331	1.00	64.85	A16S
ATOM	22514	O4*	C	A1069	193.417	132.514	-3.825	1.00	64.85	A16S
ATOM	22515	C1*	C	A1069	192.487	133.183	-2.995	1.00	64.85	A16S
ATOM	22516	N1	C	A1069	192.177	134.484	-3.617	1.00	56.62	A16S
ATOM	22517	C6	C	A1069	192.341	134.671	-4.960	1.00	56.62	A16S
ATOM	22518	C2	C	A1069	191.707	135.528	-2.816	1.00	56.62	A16S
ATOM	22519	O2	C	A1069	191.609	135.349	-1.592	1.00	56.62	A16S
ATOM	22520	N3	C	A1069	191.387	136.710	-3.393	1.00	56.62	A16S
ATOM	22521	C4	C	A1069	191.547	136.878	-4.709	1.00	56.62	A16S
ATOM	22522	N4	C	A1069	191.218	138.062	-5.244	1.00	56.62	A16S
ATOM	22523	C5	C	A1069	192.048	135.841	-5.539	1.00	56.62	A16S
ATOM	22524	C2*	C	A1069	191.262	132.282	-2.849	1.00	64.85	A16S
ATOM	22525	O2*	C	A1069	191.422	131.495	-1.685	1.00	64.85	A16S
ATOM	22526	C3*	C	A1069	191.334	131.454	-4.129	1.00	64.85	A16S
ATOM	22527	O3*	C	A1069	190.673	130.194	-4.015	1.00	64.85	A16S
ATOM	22528	P	U	A1070	189.082	130.128	-4.184	1.00	62.65	A16S
ATOM	22529	O1P	U	A1070	188.633	128.726	-4.015	1.00	52.28	A16S
ATOM	22530	O2P	U	A1070	188.698	130.889	-5.408	1.00	52.28	A16S
ATOM	22531	O5*	U	A1070	188.590	130.970	-2.932	1.00	62.65	A16S
ATOM	22532	C5*	U	A1070	187.479	131.866	-3.042	1.00	62.65	A16S
ATOM	22533	C4*	U	A1070	187.400	132.749	-1.826	1.00	62.65	A16S
ATOM	22534	O4*	U	A1070	188.429	133.768	-1.885	1.00	62.65	A16S
ATOM	22535	C1*	U	A1070	187.913	134.989	-1.392	1.00	62.65	A16S
ATOM	22536	N1	U	A1070	187.912	135.963	-2.493	1.00	52.28	A16S
ATOM	22537	C6	U	A1070	188.211	135.587	-3.777	1.00	52.28	A16S
ATOM	22538	C2	U	A1070	187.599	137.273	-2.200	1.00	52.28	A16S
ATOM	22539	O2	U	A1070	187.312	137.645	-1.080	1.00	52.28	A16S
ATOM	22540	N3	U	A1070	187.627	138.136	-3.270	1.00	52.28	A16S
ATOM	22541	C4	U	A1070	187.925	137.826	-4.578	1.00	52.28	A16S
ATOM	22542	O4	U	A1070	187.953	138.718	-5.429	1.00	52.28	A16S
ATOM	22543	C5	U	A1070	188.224	136.449	-4.801	1.00	52.28	A16S
ATOM	22544	C2*	U	A1070	186.509	134.710	-0.861	1.00	62.65	A16S
ATOM	22545	O2*	U	A1070	186.645	134.350	0.494	1.00	62.65	A16S
ATOM	22546	C3*	U	A1070	186.099	133.517	-1.706	1.00	62.65	A16S
ATOM	22547	O3*	U	A1070	185.144	132.678	-1.071	1.00	62.65	A16S
ATOM	22548	P	C	A1071	183.573	132.974	-1.240	1.00	67.30	A16S
ATOM	22549	O1P	C	A1071	182.886	131.814	-0.580	1.00	51.08	A16S
ATOM	22550	O2P	C	A1071	183.210	133.336	-2.653	1.00	51.08	A16S
ATOM	22551	O5*	C	A1071	183.398	134.277	-0.343	1.00	67.30	A16S
ATOM	22552	C5*	C	A1071	183.739	134.252	1.059	1.00	67.30	A16S
ATOM	22553	C4*	C	A1071	183.493	135.605	1.675	1.00	67.30	A16S
ATOM	22554	O4*	C	A1071	184.429	136.549	1.111	1.00	67.30	A16S



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ATOM	22555	C1*	C	A1071	183.792	137.795	0.919	1.00	67.30	A16S
ATOM	22556	N1	C	A1071	183.884	138.145	-0.507	1.00	51.08	A16S
ATOM	22557	C6	C	A1071	184.264	137.214	-1.434	1.00	51.08	A16S
ATOM	22558	C2	C	A1071	183.586	139.463	-0.908	1.00	51.08	A16S
ATOM	22559	O2	C	A1071	183.224	140.290	-0.051	1.00	51.08	A16S
ATOM	22560	N3	C	A1071	183.698	139.799	-2.214	1.00	51.08	A16S
ATOM	22561	C4	C	A1071	184.085	138.886	-3.106	1.00	51.08	A16S
ATOM	22562	N4	C	A1071	184.198	139.267	-4.382	1.00	51.08	A16S
ATOM	22563	C5	C	A1071	184.379	137.539	-2.729	1.00	51.08	A16S
ATOM	22564	C2*	C	A1071	182.361	137.691	1.450	1.00	67.30	A16S
ATOM	22565	O2*	C	A1071	182.314	138.217	2.757	1.00	67.30	A16S
ATOM	22566	C3*	C	A1071	182.117	136.189	1.396	1.00	67.30	A16S
ATOM	22567	O3*	C	A1071	181.165	135.741	2.360	1.00	67.30	A16S
ATOM	22568	P	G	A1072	179.592	135.785	2.014	1.00	61.48	A16S
ATOM	22569	O1P	G	A1072	178.918	135.134	3.174	1.00	63.90	A16S
ATOM	22570	O2P	G	A1072	179.318	135.294	0.641	1.00	63.90	A16S
ATOM	22571	O5*	G	A1072	179.257	137.341	1.974	1.00	61.48	A16S
ATOM	22572	C5*	G	A1072	179.204	138.115	3.175	1.00	61.48	A16S
ATOM	22573	C4*	G	A1072	178.722	139.505	2.865	1.00	61.48	A16S
ATOM	22574	O4*	G	A1072	179.745	140.250	2.161	1.00	61.48	A16S
ATOM	22575	C1*	G	A1072	179.134	141.148	1.256	1.00	61.48	A16S
ATOM	22576	N9	G	A1072	179.633	140.885	-0.091	1.00	63.90	A16S
ATOM	22577	C4	G	A1072	179.635	141.776	-1.140	1.00	63.90	A16S
ATOM	22578	N3	G	A1072	179.208	143.058	-1.096	1.00	63.90	A16S
ATOM	22579	C2	G	A1072	179.307	143.653	-2.274	1.00	63.90	A16S
ATOM	22580	N2	G	A1072	178.935	144.931	-2.408	1.00	63.90	A16S
ATOM	22581	N1	G	A1072	179.777	143.037	-3.402	1.00	63.90	A16S
ATOM	22582	C6	G	A1072	180.211	141.720	-3.469	1.00	63.90	A16S
ATOM	22583	O6	G	A1072	180.587	141.257	-4.538	1.00	63.90	A16S
ATOM	22584	C5	G	A1072	180.130	141.073	-2.214	1.00	63.90	A16S
ATOM	22585	N7	G	A1072	180.463	139.776	-1.846	1.00	63.90	A16S
ATOM	22586	C8	G	A1072	180.157	139.710	-0.580	1.00	63.90	A16S
ATOM	22587	C2*	G	A1072	177.619	140.953	1.358	1.00	61.48	A16S
ATOM	22588	O2*	G	A1072	177.094	141.909	2.241	1.00	61.48	A16S
ATOM	22589	C3*	G	A1072	177.517	139.564	1.955	1.00	61.48	A16S
ATOM	22590	O3*	G	A1072	176.339	139.424	2.713	1.00	61.48	A16S
ATOM	22591	P	U	A1073	175.114	138.562	2.132	1.00	43.29	A16S
ATOM	22592	O1P	U	A1073	174.214	138.253	3.288	1.00	74.05	A16S
ATOM	22593	O2P	U	A1073	175.673	137.441	1.325	1.00	74.05	A16S
ATOM	22594	O5*	U	A1073	174.394	139.566	1.123	1.00	43.29	A16S
ATOM	22595	C5*	U	A1073	173.733	140.722	1.620	1.00	43.29	A16S
ATOM	22596	C4*	U	A1073	173.621	141.767	0.550	1.00	43.29	A16S
ATOM	22597	O4*	U	A1073	174.940	142.194	0.139	1.00	43.29	A16S
ATOM	22598	C1*	U	A1073	174.917	142.548	-1.234	1.00	43.29	A16S
ATOM	22599	N1	U	A1073	175.840	141.669	-1.971	1.00	74.05	A16S
ATOM	22600	C6	U	A1073	176.245	140.459	-1.458	1.00	74.05	A16S
ATOM	22601	C2	U	A1073	176.266	142.088	-3.223	1.00	74.05	A16S
ATOM	22602	O2	U	A1073	175.974	143.177	-3.693	1.00	74.05	A16S
ATOM	22603	N3	U	A1073	177.049	141.186	-3.900	1.00	74.05	A16S
ATOM	22604	C4	U	A1073	177.458	139.944	-3.459	1.00	74.05	A16S
ATOM	22605	O4	U	A1073	178.070	139.194	-4.228	1.00	74.05	A16S
ATOM	22606	C5	U	A1073	177.019	139.611	-2.137	1.00	74.05	A16S
ATOM	22607	C2*	U	A1073	173.485	142.355	-1.732	1.00	43.29	A16S
ATOM	22608	O2*	U	A1073	172.814	143.595	-1.710	1.00	43.29	A16S
ATOM	22609	C3*	U	A1073	172.951	141.337	-0.735	1.00	43.29	A16S
ATOM	22610	O3*	U	A1073	171.542	141.343	-0.640	1.00	43.29	A16S
ATOM	22611	P	G	A1074	170.692	140.354	-1.574	1.00	51.90	A16S
ATOM	22612	O1P	G	A1074	169.245	140.524	-1.275	1.00	53.26	A16S
ATOM	22613	O2P	G	A1074	171.305	139.011	-1.438	1.00	53.26	A16S
ATOM	22614	O5*	G	A1074	170.930	140.965	-3.027	1.00	51.90	A16S
ATOM	22615	C5*	G	A1074	170.508	142.304	-3.297	1.00	51.90	A16S
ATOM	22616	C4*	G	A1074	170.903	142.735	-4.683	1.00	51.90	A16S
ATOM	22617	O4*	G	A1074	172.333	142.933	-4.767	1.00	51.90	A16S
ATOM	22618	C1*	G	A1074	172.797	142.536	-6.055	1.00	51.90	A16S
ATOM	22619	N9	G	A1074	173.634	141.346	-5.884	1.00	53.26	A16S
ATOM	22620	C4	G	A1074	174.433	140.755	-6.826	1.00	53.26	A16S
ATOM	22621	N3	G	A1074	174.578	141.157	-8.100	1.00	53.26	A16S
ATOM	22622	C2	G	A1074	175.426	140.402	-8.749	1.00	53.26	A16S
ATOM	22623	N2	G	A1074	175.690	140.668	-10.025	1.00	53.26	A16S
ATOM	22624	N1	G	A1074	176.080	139.327	-8.193	1.00	53.26	A16S
ATOM	22625	C6	G	A1074	175.936	138.895	-6.877	1.00	53.26	A16S
ATOM	22626	O6	G	A1074	176.565	137.901	-6.456	1.00	53.26	A16S
ATOM	22627	C5	G	A1074	175.039	139.697	-6.179	1.00	53.26	A16S
ATOM	22628	N7	G	A1074	174.617	139.612	-4.866	1.00	53.26	A16S
ATOM	22629	C8	G	A1074	173.783	140.603	-4.734	1.00	53.26	A16S
ATOM	22630	C2*	G	A1074	171.560	142.235	-6.897	1.00	51.90	A16S
ATOM	22631	O2*	G	A1074	171.141	143.433	-7.531	1.00	51.90	A16S



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ATOM	22632	C3* G	A1074	170.586	141.782	-5.818	1.00	51.90	A16S
ATOM	22633	O3* G	A1074	169.243	141.872	-6.227	1.00	51.90	A16S
ATOM	22634	P C	A1075	168.489	140.548	-6.710	1.00	48.49	A16S
ATOM	22635	O1P C	A1075	167.070	140.906	-7.011	1.00	44.88	A16S
ATOM	22636	O2P C	A1075	168.789	139.475	-5.716	1.00	44.88	A16S
ATOM	22637	O5* C	A1075	169.201	140.249	-8.097	1.00	48.49	A16S
ATOM	22638	C5* C	A1075	169.029	141.166	-9.194	1.00	48.49	A16S
ATOM	22639	C4* C	A1075	169.804	140.701	-10.397	1.00	48.49	A16S
ATOM	22640	O4* C	A1075	171.219	140.822	-10.129	1.00	48.49	A16S
ATOM	22641	C1* C	A1075	171.907	139.738	-10.720	1.00	48.49	A16S
ATOM	22642	N1 C	A1075	172.459	138.906	-9.636	1.00	44.88	A16S
ATOM	22643	C6 C	A1075	171.910	138.931	-8.387	1.00	44.88	A16S
ATOM	22644	C2 C	A1075	173.534	138.068	-9.909	1.00	44.88	A16S
ATOM	22645	O2 C	A1075	174.064	138.119	-11.018	1.00	44.88	A16S
ATOM	22646	N3 C	A1075	173.978	137.235	-8.959	1.00	44.88	A16S
ATOM	22647	C4 C	A1075	173.414	137.241	-7.763	1.00	44.88	A16S
ATOM	22648	N4 C	A1075	173.865	136.384	-6.868	1.00	44.88	A16S
ATOM	22649	C5 C	A1075	172.354	138.124	-7.432	1.00	44.88	A16S
ATOM	22650	C2* C	A1075	170.886	138.959	-11.550	1.00	48.49	A16S
ATOM	22651	O2* C	A1075	170.780	139.512	-12.849	1.00	48.49	A16S
ATOM	22652	C3* C	A1075	169.610	139.247	-10.792	1.00	48.49	A16S
ATOM	22653	O3* C	A1075	168.479	139.056	-11.618	1.00	48.49	A16S
ATOM	22654	P C	A1076	167.810	137.598	-11.712	1.00	48.03	A16S
ATOM	22655	O1P C	A1076	166.660	137.746	-12.658	1.00	42.13	A16S
ATOM	22656	O2P C	A1076	167.580	137.057	-10.335	1.00	42.13	A16S
ATOM	22657	O5* C	A1076	168.933	136.696	-12.404	1.00	48.03	A16S
ATOM	22658	C5* C	A1076	169.205	136.809	-13.824	1.00	48.03	A16S
ATOM	22659	C4* C	A1076	169.975	135.606	-14.319	1.00	48.03	A16S
ATOM	22660	O4* C	A1076	171.327	135.616	-13.799	1.00	48.03	A16S
ATOM	22661	C1* C	A1076	171.719	134.298	-13.490	1.00	48.03	A16S
ATOM	22662	N1 C	A1076	171.896	134.229	-12.041	1.00	42.13	A16S
ATOM	22663	C6 C	A1076	171.350	135.182	-11.234	1.00	42.13	A16S
ATOM	22664	C2 C	A1076	172.623	133.178	-11.493	1.00	42.13	A16S
ATOM	22665	O2 C	A1076	173.104	132.335	-12.243	1.00	42.13	A16S
ATOM	22666	N3 C	A1076	172.785	133.104	-10.159	1.00	42.13	A16S
ATOM	22667	C4 C	A1076	172.254	134.039	-9.377	1.00	42.13	A16S
ATOM	22668	N4 C	A1076	172.441	133.937	-8.061	1.00	42.13	A16S
ATOM	22669	C5 C	A1076	171.503	135.129	-9.909	1.00	42.13	A16S
ATOM	22670	C2* C	A1076	170.605	133.360	-13.952	1.00	48.03	A16S
ATOM	22671	O2* C	A1076	170.818	132.941	-15.280	1.00	48.03	A16S
ATOM	22672	C3* C	A1076	169.403	134.271	-13.895	1.00	48.03	A16S
ATOM	22673	O3* C	A1076	168.429	133.840	-14.807	1.00	48.03	A16S
ATOM	22674	P G	A1077	167.177	133.003	-14.274	1.00	43.44	A16S
ATOM	22675	O1P G	A1077	166.276	132.863	-15.449	1.00	57.08	A16S
ATOM	22676	O2P G	A1077	166.681	133.632	-13.023	1.00	57.08	A16S
ATOM	22677	O5* G	A1077	167.794	131.588	-13.891	1.00	43.44	A16S
ATOM	22678	C5* G	A1077	168.293	130.741	-14.918	1.00	43.44	A16S
ATOM	22679	C4* G	A1077	169.064	129.589	-14.339	1.00	43.44	A16S
ATOM	22680	O4* G	A1077	170.251	130.062	-13.657	1.00	43.44	A16S
ATOM	22681	C1* G	A1077	170.653	129.095	-12.703	1.00	43.44	A16S
ATOM	22682	N9 G	A1077	170.757	129.739	-11.398	1.00	57.08	A16S
ATOM	22683	C4 G	A1077	171.401	129.238	-10.293	1.00	57.08	A16S
ATOM	22684	N3 G	A1077	172.132	128.107	-10.245	1.00	57.08	A16S
ATOM	22685	C2 G	A1077	172.591	127.867	-9.025	1.00	57.08	A16S
ATOM	22686	N2 G	A1077	173.367	126.801	-8.789	1.00	57.08	A16S
ATOM	22687	N1 G	A1077	172.331	128.654	-7.941	1.00	57.08	A16S
ATOM	22688	C6 G	A1077	171.572	129.812	-7.960	1.00	57.08	A16S
ATOM	22689	O6 G	A1077	171.371	130.427	-6.906	1.00	57.08	A16S
ATOM	22690	C5 G	A1077	171.105	130.110	-9.272	1.00	57.08	A16S
ATOM	22691	N7 G	A1077	170.357	131.180	-9.741	1.00	57.08	A16S
ATOM	22692	C8 G	A1077	170.185	130.923	-11.007	1.00	57.08	A16S
ATOM	22693	C2* G	A1077	169.591	127.984	-12.706	1.00	43.44	A16S
ATOM	22694	O2* G	A1077	170.017	126.903	-13.525	1.00	43.44	A16S
ATOM	22695	C3* G	A1077	168.393	128.699	-13.313	1.00	43.44	A16S
ATOM	22696	O3* G	A1077	167.490	127.784	-13.910	1.00	43.44	A16S
ATOM	22697	P U	A1078	165.977	127.700	-13.365	1.00	41.62	A16S
ATOM	22698	O1P U	A1078	165.215	126.686	-14.134	1.00	66.01	A16S
ATOM	22699	O2P U	A1078	165.467	129.106	-13.302	1.00	66.01	A16S
ATOM	22700	O5* U	A1078	166.165	127.109	-11.897	1.00	41.62	A16S
ATOM	22701	C5* U	A1078	165.102	127.177	-10.948	1.00	41.62	A16S
ATOM	22702	C4* U	A1078	165.202	126.044	-9.971	1.00	41.62	A16S
ATOM	22703	O4* U	A1078	164.922	124.807	-10.650	1.00	41.62	A16S
ATOM	22704	C1* U	A1078	165.671	123.767	-10.056	1.00	41.62	A16S
ATOM	22705	N1 U	A1078	166.472	123.116	-11.101	1.00	66.01	A16S
ATOM	22706	C6 U	A1078	166.939	123.809	-12.184	1.00	66.01	A16S
ATOM	22707	C2 U	A1078	166.744	121.781	-10.947	1.00	66.01	A16S
ATOM	22708	O2 U	A1078	166.331	121.136	-10.007	1.00	66.01	A16S



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ATOM	22709	N3	U	A1078	167.518	121.225	-11.935	1.00	66.01	A16S
ATOM	22710	C4	U	A1078	168.030	121.863	-13.044	1.00	66.01	A16S
ATOM	22711	O4	U	A1078	168.734	121.236	-13.843	1.00	66.01	A16S
ATOM	22712	C5	U	A1078	167.688	123.246	-13.135	1.00	66.01	A16S
ATOM	22713	C2*	U	A1078	166.515	124.373	-8.930	1.00	41.62	A16S
ATOM	22714	O2*	U	A1078	165.866	124.237	-7.684	1.00	41.62	A16S
ATOM	22715	C3*	U	A1078	166.556	125.835	-9.323	1.00	41.62	A16S
ATOM	22716	O3*	U	A1078	166.686	126.618	-8.160	1.00	41.62	A16S
ATOM	22717	P	G	A1079	168.072	127.359	-7.871	1.00	45.59	A16S
ATOM	22718	O1P	G	A1079	167.971	128.118	-6.581	1.00	51.62	A16S
ATOM	22719	O2P	G	A1079	168.443	128.080	-9.128	1.00	51.62	A16S
ATOM	22720	O5*	G	A1079	169.072	126.155	-7.626	1.00	45.59	A16S
ATOM	22721	C5*	G	A1079	168.782	125.197	-6.628	1.00	45.59	A16S
ATOM	22722	C4*	G	A1079	169.728	124.046	-6.745	1.00	45.59	A16S
ATOM	22723	O4*	G	A1079	169.487	123.336	-7.981	1.00	45.59	A16S
ATOM	22724	C1*	G	A1079	170.702	122.853	-8.500	1.00	45.59	A16S
ATOM	22725	N9	G	A1079	170.832	123.385	-9.854	1.00	51.62	A16S
ATOM	22726	C4	G	A1079	171.308	122.727	-10.964	1.00	51.62	A16S
ATOM	22727	N3	G	A1079	171.833	121.487	-10.987	1.00	51.62	A16S
ATOM	22728	C2	G	A1079	172.139	121.102	-12.218	1.00	51.62	A16S
ATOM	22729	N2	G	A1079	172.677	119.889	-12.422	1.00	51.62	A16S
ATOM	22730	N1	G	A1079	171.941	121.878	-13.338	1.00	51.62	A16S
ATOM	22731	C6	G	A1079	171.408	123.160	-13.335	1.00	51.62	A16S
ATOM	22732	O6	G	A1079	171.260	123.769	-14.398	1.00	51.62	A16S
ATOM	22733	C5	G	A1079	171.089	123.587	-12.021	1.00	51.62	A16S
ATOM	22734	N7	G	A1079	170.554	124.785	-11.577	1.00	51.62	A16S
ATOM	22735	C8	G	A1079	170.433	124.626	-10.286	1.00	51.62	A16S
ATOM	22736	C2*	G	A1079	171.798	123.222	-7.499	1.00	45.59	A16S
ATOM	22737	O2*	G	A1079	171.933	122.143	-6.596	1.00	45.59	A16S
ATOM	22738	C3*	G	A1079	171.186	124.423	-6.795	1.00	45.59	A16S
ATOM	22739	O3*	G	A1079	171.663	124.583	-5.476	1.00	45.59	A16S
ATOM	22740	P	A	A1080	172.986	125.443	-5.216	1.00	42.64	A16S
ATOM	22741	O1P	A	A1080	173.191	125.547	-3.745	1.00	46.41	A16S
ATOM	22742	O2P	A	A1080	172.910	126.666	-6.041	1.00	46.41	A16S
ATOM	22743	O5*	A	A1080	174.145	124.487	-5.743	1.00	42.64	A16S
ATOM	22744	C5*	A	A1080	174.459	123.271	-5.019	1.00	42.64	A16S
ATOM	22745	C4*	A	A1080	175.541	122.483	-5.715	1.00	42.64	A16S
ATOM	22746	O4*	A	A1080	175.047	121.955	-6.967	1.00	42.64	A16S
ATOM	22747	C1*	A	A1080	176.093	121.929	-7.914	1.00	42.64	A16S
ATOM	22748	N9	A	A1080	175.704	122.764	-9.049	1.00	46.41	A16S
ATOM	22749	C4	A	A1080	175.586	122.343	-10.351	1.00	46.41	A16S
ATOM	22750	N3	A	A1080	175.887	121.133	-10.844	1.00	46.41	A16S
ATOM	22751	C2	A	A1080	175.595	121.069	-12.140	1.00	46.41	A16S
ATOM	22752	N1	A	A1080	175.067	122.002	-12.935	1.00	46.41	A16S
ATOM	22753	C6	A	A1080	174.774	123.209	-12.407	1.00	46.41	A16S
ATOM	22754	N6	A	A1080	174.215	124.131	-13.193	1.00	46.41	A16S
ATOM	22755	C5	A	A1080	175.062	123.415	-11.048	1.00	46.41	A16S
ATOM	22756	N7	A	A1080	174.927	124.522	-10.219	1.00	46.41	A16S
ATOM	22757	C8	A	A1080	175.331	124.090	-9.049	1.00	46.41	A16S
ATOM	22758	C2*	A	A1080	177.363	122.379	-7.207	1.00	42.64	A16S
ATOM	22759	O2*	A	A1080	177.930	121.183	-6.729	1.00	42.64	A16S
ATOM	22760	C3*	A	A1080	176.809	123.232	-6.074	1.00	42.64	A16S
ATOM	22761	O3*	A	A1080	177.689	123.265	-4.949	1.00	42.64	A16S
ATOM	22762	P	G	A1081	178.647	124.546	-4.708	1.00	37.24	A16S
ATOM	22763	O1P	G	A1081	179.571	124.216	-3.573	1.00	51.48	A16S
ATOM	22764	O2P	G	A1081	177.785	125.755	-4.623	1.00	51.48	A16S
ATOM	22765	O5*	G	A1081	179.471	124.637	-6.069	1.00	37.24	A16S
ATOM	22766	C5*	G	A1081	179.787	125.896	-6.655	1.00	37.24	A16S
ATOM	22767	C4*	G	A1081	179.327	125.918	-8.076	1.00	37.24	A16S
ATOM	22768	O4*	G	A1081	177.877	125.844	-8.089	1.00	37.24	A16S
ATOM	22769	C1*	G	A1081	177.363	126.725	-9.088	1.00	37.24	A16S
ATOM	22770	N9	G	A1081	176.600	127.805	-8.443	1.00	51.48	A16S
ATOM	22771	C4	G	A1081	175.948	128.849	-9.081	1.00	51.48	A16S
ATOM	22772	N3	G	A1081	175.903	129.068	-10.408	1.00	51.48	A16S
ATOM	22773	C2	G	A1081	175.205	130.149	-10.706	1.00	51.48	A16S
ATOM	22774	N2	G	A1081	175.071	130.539	-11.976	1.00	51.48	A16S
ATOM	22775	N1	G	A1081	174.594	130.934	-9.791	1.00	51.48	A16S
ATOM	22776	C6	G	A1081	174.619	130.730	-8.427	1.00	51.48	A16S
ATOM	22777	O6	G	A1081	174.012	131.503	-7.690	1.00	51.48	A16S
ATOM	22778	C5	G	A1081	175.377	129.591	-8.078	1.00	51.48	A16S
ATOM	22779	N7	G	A1081	175.669	129.050	-6.832	1.00	51.48	A16S
ATOM	22780	C8	G	A1081	176.392	127.995	-7.096	1.00	51.48	A16S
ATOM	22781	C2*	G	A1081	178.560	127.292	-9.853	1.00	37.24	A16S
ATOM	22782	O2*	G	A1081	178.807	126.486	-10.981	1.00	37.24	A16S
ATOM	22783	C3*	G	A1081	179.650	127.215	-8.793	1.00	37.24	A16S
ATOM	22784	O3*	G	A1081	180.976	127.265	-9.305	1.00	37.24	A16S
ATOM	22785	P	G	A1082	181.782	128.670	-9.288	1.00	47.45	A16S



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ATOM	22786	O1P	G	A1082	183.162	128.415	-9.772	1.00	54.52	A16S
ATOM	22787	O2P	G	A1082	181.590	129.327	-7.974	1.00	54.52	A16S
ATOM	22788	O5*	G	A1082	181.032	129.550	-10.384	1.00	47.45	A16S
ATOM	22789	C5*	G	A1082	180.941	129.080	-11.727	1.00	47.45	A16S
ATOM	22790	C4*	G	A1082	180.080	129.985	-12.547	1.00	47.45	A16S
ATOM	22791	O4*	G	A1082	178.734	129.959	-12.034	1.00	47.45	A16S
ATOM	22792	C1*	G	A1082	178.113	131.211	-12.293	1.00	47.45	A16S
ATOM	22793	N9	G	A1082	177.718	131.830	-11.028	1.00	54.52	A16S
ATOM	22794	C4	G	A1082	176.889	132.914	-10.888	1.00	54.52	A16S
ATOM	22795	N3	G	A1082	176.254	133.557	-11.886	1.00	54.52	A16S
ATOM	22796	C2	G	A1082	175.536	134.572	-11.437	1.00	54.52	A16S
ATOM	22797	N2	G	A1082	174.813	135.309	-12.294	1.00	54.52	A16S
ATOM	22798	N1	G	A1082	175.468	134.936	-10.115	1.00	54.52	A16S
ATOM	22799	C6	G	A1082	176.127	134.290	-9.077	1.00	54.52	A16S
ATOM	22800	O6	G	A1082	176.020	134.709	-7.922	1.00	54.52	A16S
ATOM	22801	C5	G	A1082	176.875	133.190	-9.541	1.00	54.52	A16S
ATOM	22802	N7	G	A1082	177.649	132.279	-8.842	1.00	54.52	A16S
ATOM	22803	C8	G	A1082	178.124	131.487	-9.762	1.00	54.52	A16S
ATOM	22804	C2*	G	A1082	179.140	132.093	-13.000	1.00	47.45	A16S
ATOM	22805	O2*	G	A1082	178.977	131.993	-14.396	1.00	47.45	A16S
ATOM	22806	C3*	G	A1082	180.443	131.458	-12.559	1.00	47.45	A16S
ATOM	22807	O3*	G	A1082	181.469	131.762	-13.485	1.00	47.45	A16S
ATOM	22808	P	U	A1083	182.511	132.942	-13.160	1.00	71.77	A16S
ATOM	22809	O1P	U	A1083	183.445	133.064	-14.329	1.00	70.70	A16S
ATOM	22810	O2P	U	A1083	183.073	132.699	-11.793	1.00	70.70	A16S
ATOM	22811	O5*	U	A1083	181.584	134.237	-13.148	1.00	71.77	A16S
ATOM	22812	C5*	U	A1083	180.809	134.594	-14.304	1.00	71.77	A16S
ATOM	22813	C4*	U	A1083	179.935	135.788	-14.002	1.00	71.77	A16S
ATOM	22814	O4*	U	A1083	178.996	135.447	-12.957	1.00	71.77	A16S
ATOM	22815	C1*	U	A1083	178.693	136.598	-12.191	1.00	71.77	A16S
ATOM	22816	N1	U	A1083	178.873	136.294	-10.764	1.00	70.70	A16S
ATOM	22817	C6	U	A1083	179.784	135.361	-10.337	1.00	70.70	A16S
ATOM	22818	C2	U	A1083	178.072	136.971	-9.861	1.00	70.70	A16S
ATOM	22819	O2	U	A1083	177.271	137.832	-10.202	1.00	70.70	A16S
ATOM	22820	N3	U	A1083	178.246	136.608	-8.544	1.00	70.70	A16S
ATOM	22821	C4	U	A1083	179.131	135.660	-8.047	1.00	70.70	A16S
ATOM	22822	O4	U	A1083	179.123	135.375	-6.832	1.00	70.70	A16S
ATOM	22823	C5	U	A1083	179.936	135.031	-9.050	1.00	70.70	A16S
ATOM	22824	C2*	U	A1083	179.513	137.763	-12.731	1.00	71.77	A16S
ATOM	22825	O2*	U	A1083	178.635	138.496	-13.562	1.00	71.77	A16S
ATOM	22826	C3*	U	A1083	180.633	137.039	-13.488	1.00	71.77	A16S
ATOM	22827	O3*	U	A1083	181.128	137.804	-14.589	1.00	71.77	A16S
ATOM	22828	P	G	A1084	182.708	138.116	-14.716	1.00	59.28	A16S
ATOM	22829	O1P	G	A1084	182.808	138.942	-15.954	1.00	61.89	A16S
ATOM	22830	O2P	G	A1084	183.515	136.863	-14.591	1.00	61.89	A16S
ATOM	22831	O5*	G	A1084	183.034	139.017	-13.446	1.00	59.28	A16S
ATOM	22832	C5*	G	A1084	182.461	140.320	-13.318	1.00	59.28	A16S
ATOM	22833	C4*	G	A1084	182.583	140.804	-11.900	1.00	59.28	A16S
ATOM	22834	O4*	G	A1084	181.863	139.910	-11.028	1.00	59.28	A16S
ATOM	22835	C1*	G	A1084	182.445	139.940	-9.750	1.00	59.28	A16S
ATOM	22836	N9	G	A1084	182.638	138.567	-9.321	1.00	61.89	A16S
ATOM	22837	C4	G	A1084	182.379	138.061	-8.073	1.00	61.89	A16S
ATOM	22838	N3	G	A1084	181.915	138.756	-7.019	1.00	61.89	A16S
ATOM	22839	C2	G	A1084	181.773	137.993	-5.948	1.00	61.89	A16S
ATOM	22840	N2	G	A1084	181.331	138.520	-4.798	1.00	61.89	A16S
ATOM	22841	N1	G	A1084	182.054	136.655	-5.915	1.00	61.89	A16S
ATOM	22842	C6	G	A1084	182.526	135.912	-6.984	1.00	61.89	A16S
ATOM	22843	O6	G	A1084	182.746	134.694	-6.838	1.00	61.89	A16S
ATOM	22844	C5	G	A1084	182.693	136.726	-8.149	1.00	61.89	A16S
ATOM	22845	N7	G	A1084	183.146	136.401	-9.421	1.00	61.89	A16S
ATOM	22846	C8	G	A1084	183.096	137.525	-10.080	1.00	61.89	A16S
ATOM	22847	C2*	G	A1084	183.715	140.798	-9.807	1.00	59.28	A16S
ATOM	22848	O2*	G	A1084	183.436	142.056	-9.217	1.00	59.28	A16S
ATOM	22849	C3*	G	A1084	183.982	140.882	-11.311	1.00	59.28	A16S
ATOM	22850	O3*	G	A1084	184.557	142.130	-11.703	1.00	59.28	A16S
ATOM	22851	P	U	A1085	186.107	142.460	-11.404	1.00	62.61	A16S
ATOM	22852	O1P	U	A1085	186.551	143.244	-12.599	1.00	80.83	A16S
ATOM	22853	O2P	U	A1085	186.243	143.052	-10.046	1.00	80.83	A16S
ATOM	22854	O5*	U	A1085	186.865	141.059	-11.384	1.00	62.61	A16S
ATOM	22855	C5*	U	A1085	188.310	141.023	-11.426	1.00	62.61	A16S
ATOM	22856	C4*	U	A1085	188.801	139.631	-11.719	1.00	62.61	A16S
ATOM	22857	O4*	U	A1085	188.697	138.826	-10.525	1.00	62.61	A16S
ATOM	22858	C1*	U	A1085	187.891	137.684	-10.761	1.00	62.61	A16S
ATOM	22859	N1	U	A1085	187.070	137.500	-9.558	1.00	80.83	A16S
ATOM	22860	C6	U	A1085	186.524	138.584	-8.908	1.00	80.83	A16S
ATOM	22861	C2	U	A1085	186.899	136.217	-9.069	1.00	80.83	A16S
ATOM	22862	O2	U	A1085	187.303	135.222	-9.645	1.00	80.83	A16S



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ATOM	22863	N3	U	A1085	186.227	136.140	-7.877	1.00	80.83	A16S
ATOM	22864	C4	U	A1085	185.696	137.187	-7.153	1.00	80.83	A16S
ATOM	22865	O4	U	A1085	185.172	136.963	-6.060	1.00	80.83	A16S
ATOM	22866	C5	U	A1085	185.864	138.475	-7.756	1.00	80.83	A16S
ATOM	22867	C2*	U	A1085	187.116	137.900	-12.062	1.00	62.61	A16S
ATOM	22868	O2*	U	A1085	186.940	136.659	-12.716	1.00	62.61	A16S
ATOM	22869	C3*	U	A1085	188.026	138.891	-12.786	1.00	62.61	A16S
ATOM	22870	O3*	U	A1085	188.415	138.941	-14.167	1.00	62.61	A16S
ATOM	22871	P	U	A1086	189.652	138.057	-14.714	1.00	73.05	A16S
ATOM	22872	O1P	U	A1086	189.971	136.948	-13.772	1.00	102.20	A16S
ATOM	22873	O2P	U	A1086	190.713	139.027	-15.096	1.00	102.20	A16S
ATOM	22874	O5*	U	A1086	189.091	137.426	-16.061	1.00	73.05	A16S
ATOM	22875	C5*	U	A1086	188.547	136.094	-16.107	1.00	73.05	A16S
ATOM	22876	C4*	U	A1086	187.466	136.028	-17.156	1.00	73.05	A16S
ATOM	22877	O4*	U	A1086	186.242	136.585	-16.622	1.00	73.05	A16S
ATOM	22878	C1*	U	A1086	185.603	137.388	-17.607	1.00	73.05	A16S
ATOM	22879	N1	U	A1086	185.547	138.772	-17.088	1.00	102.20	A16S
ATOM	22880	C6	U	A1086	186.050	139.058	-15.832	1.00	102.20	A16S
ATOM	22881	C2	U	A1086	184.976	139.785	-17.872	1.00	102.20	A16S
ATOM	22882	O2	U	A1086	184.515	139.597	-18.993	1.00	102.20	A16S
ATOM	22883	N3	U	A1086	184.970	141.034	-17.280	1.00	102.20	A16S
ATOM	22884	C4	U	A1086	185.464	141.376	-16.017	1.00	102.20	A16S
ATOM	22885	O4	U	A1086	185.394	142.548	-15.614	1.00	102.20	A16S
ATOM	22886	C5	U	A1086	186.027	140.284	-15.290	1.00	102.20	A16S
ATOM	22887	C2*	U	A1086	186.389	137.216	-18.914	1.00	73.05	A16S
ATOM	22888	O2*	U	A1086	185.849	136.169	-19.706	1.00	73.05	A16S
ATOM	22889	C3*	U	A1086	187.768	136.859	-18.391	1.00	73.05	A16S
ATOM	22890	O3*	U	A1086	188.549	136.162	-19.343	1.00	73.05	A16S
ATOM	22891	P	G	A1087	189.802	136.901	-20.021	1.00	66.34	A16S
ATOM	22892	O1P	G	A1087	190.500	135.876	-20.837	1.00	71.75	A16S
ATOM	22893	O2P	G	A1087	190.554	137.630	-18.968	1.00	71.75	A16S
ATOM	22894	O5*	G	A1087	189.132	137.974	-20.988	1.00	66.34	A16S
ATOM	22895	C5*	G	A1087	188.196	137.559	-21.991	1.00	66.34	A16S
ATOM	22896	C4*	G	A1087	187.555	138.759	-22.637	1.00	66.34	A16S
ATOM	22897	O4*	G	A1087	186.709	139.430	-21.671	1.00	66.34	A16S
ATOM	22898	C1*	G	A1087	186.739	140.827	-21.909	1.00	66.34	A16S
ATOM	22899	N9	G	A1087	187.254	141.494	-20.719	1.00	71.75	A16S
ATOM	22900	C4	G	A1087	187.442	142.841	-20.594	1.00	71.75	A16S
ATOM	22901	N3	G	A1087	187.176	143.761	-21.546	1.00	71.75	A16S
ATOM	22902	C2	G	A1087	187.476	144.980	-21.150	1.00	71.75	A16S
ATOM	22903	N2	G	A1087	187.303	146.009	-22.000	1.00	71.75	A16S
ATOM	22904	N1	G	A1087	187.979	145.274	-19.898	1.00	71.75	A16S
ATOM	22905	C6	G	A1087	188.256	144.334	-18.902	1.00	71.75	A16S
ATOM	22906	O6	G	A1087	188.711	144.699	-17.811	1.00	71.75	A16S
ATOM	22907	C5	G	A1087	187.954	143.025	-19.328	1.00	71.75	A16S
ATOM	22908	N7	G	A1087	188.084	141.812	-18.666	1.00	71.75	A16S
ATOM	22909	C8	G	A1087	187.653	140.931	-19.527	1.00	71.75	A16S
ATOM	22910	C2*	G	A1087	187.633	141.091	-23.124	1.00	66.34	A16S
ATOM	22911	O2*	G	A1087	186.838	141.265	-24.282	1.00	66.34	A16S
ATOM	22912	C3*	G	A1087	188.508	139.840	-23.139	1.00	66.34	A16S
ATOM	22913	O3*	G	A1087	189.028	139.550	-24.437	1.00	66.34	A16S
ATOM	22914	P	G	A1088	190.590	139.798	-24.745	1.00	86.44	A16S
ATOM	22915	O1P	G	A1088	190.874	139.022	-25.980	1.00	72.32	A16S
ATOM	22916	O2P	G	A1088	191.385	139.533	-23.516	1.00	72.32	A16S
ATOM	22917	O5*	G	A1088	190.689	141.357	-25.076	1.00	86.44	A16S
ATOM	22918	C5*	G	A1088	190.380	141.855	-26.392	1.00	86.44	A16S
ATOM	22919	C4*	G	A1088	190.665	143.336	-26.480	1.00	86.44	A16S
ATOM	22920	O4*	G	A1088	189.718	144.057	-25.646	1.00	86.44	A16S
ATOM	22921	C1*	G	A1088	190.377	145.129	-24.986	1.00	86.44	A16S
ATOM	22922	N9	G	A1088	190.525	144.767	-23.577	1.00	72.32	A16S
ATOM	22923	C4	G	A1088	190.908	145.606	-22.568	1.00	72.32	A16S
ATOM	22924	N3	G	A1088	191.192	146.912	-22.702	1.00	72.32	A16S
ATOM	22925	C2	G	A1088	191.526	147.456	-21.555	1.00	72.32	A16S
ATOM	22926	N2	G	A1088	191.846	148.750	-21.522	1.00	72.32	A16S
ATOM	22927	N1	G	A1088	191.572	146.773	-20.361	1.00	72.32	A16S
ATOM	22928	C6	G	A1088	191.283	145.420	-20.207	1.00	72.32	A16S
ATOM	22929	O6	G	A1088	191.346	144.889	-19.091	1.00	72.32	A16S
ATOM	22930	C5	G	A1088	190.935	144.826	-21.429	1.00	72.32	A16S
ATOM	22931	N7	G	A1088	190.578	143.517	-21.716	1.00	72.32	A16S
ATOM	22932	C8	G	A1088	190.339	143.526	-23.000	1.00	72.32	A16S
ATOM	22933	C2*	G	A1088	191.772	145.235	-25.591	1.00	86.44	A16S
ATOM	22934	O2*	G	A1088	191.774	146.108	-26.700	1.00	86.44	A16S
ATOM	22935	C3*	G	A1088	192.026	143.787	-25.972	1.00	86.44	A16S
ATOM	22936	O3*	G	A1088	193.091	143.647	-26.888	1.00	86.44	A16S
ATOM	22937	P	G	A1089	194.576	143.419	-26.318	1.00	81.37	A16S
ATOM	22938	O1P	G	A1089	195.437	143.214	-27.499	1.00	69.39	A16S
ATOM	22939	O2P	G	A1089	194.543	142.380	-25.245	1.00	69.39	A16S



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ATOM	22940	O5*	G	A1089	194.944	144.816	-25.646	1.00	81.37	A16S
ATOM	22941	C5*	G	A1089	194.958	146.020	-26.431	1.00	81.37	A16S
ATOM	22942	C4*	G	A1089	195.405	147.202	-25.601	1.00	81.37	A16S
ATOM	22943	O4*	G	A1089	194.386	147.538	-24.622	1.00	81.37	A16S
ATOM	22944	C1*	G	A1089	195.000	148.053	-23.447	1.00	81.37	A16S
ATOM	22945	N9	G	A1089	194.751	147.132	-22.340	1.00	69.39	A16S
ATOM	22946	C4	G	A1089	194.857	147.430	-20.999	1.00	69.39	A16S
ATOM	22947	N3	G	A1089	195.150	148.637	-20.476	1.00	69.39	A16S
ATOM	22948	C2	G	A1089	195.186	148.606	-19.153	1.00	69.39	A16S
ATOM	22949	N2	G	A1089	195.434	149.726	-18.472	1.00	69.39	A16S
ATOM	22950	N1	G	A1089	194.974	147.479	-18.401	1.00	69.39	A16S
ATOM	22951	C6	G	A1089	194.683	146.226	-18.913	1.00	69.39	A16S
ATOM	22952	O6	G	A1089	194.532	145.277	-18.145	1.00	69.39	A16S
ATOM	22953	C5	G	A1089	194.615	146.244	-20.339	1.00	69.39	A16S
ATOM	22954	N7	G	A1089	194.334	145.226	-21.244	1.00	69.39	A16S
ATOM	22955	C8	G	A1089	194.418	145.800	-22.415	1.00	69.39	A16S
ATOM	22956	C2*	G	A1089	196.503	148.100	-23.706	1.00	81.37	A16S
ATOM	22957	O2*	G	A1089	196.907	149.368	-24.181	1.00	81.37	A16S
ATOM	22958	C3*	G	A1089	196.654	147.016	-24.758	1.00	81.37	A16S
ATOM	22959	O3*	G	A1089	197.875	147.139	-25.444	1.00	81.37	A16S
ATOM	22960	P	U	A1090	199.145	146.323	-24.903	1.00	70.17	A16S
ATOM	22961	O1P	U	A1090	200.282	146.714	-25.775	1.00	76.46	A16S
ATOM	22962	O2P	U	A1090	198.780	144.887	-24.758	1.00	76.46	A16S
ATOM	22963	O5*	U	A1090	199.376	146.882	-23.428	1.00	70.17	A16S
ATOM	22964	C5*	U	A1090	199.695	148.262	-23.194	1.00	70.17	A16S
ATOM	22965	C4*	U	A1090	199.850	148.515	-21.712	1.00	70.17	A16S
ATOM	22966	O4*	U	A1090	198.596	148.226	-21.033	1.00	70.17	A16S
ATOM	22967	C1*	U	A1090	198.860	147.715	-19.733	1.00	70.17	A16S
ATOM	22968	N1	U	A1090	198.257	146.377	-19.608	1.00	76.46	A16S
ATOM	22969	C6	U	A1090	197.812	145.676	-20.705	1.00	76.46	A16S
ATOM	22970	C2	U	A1090	198.161	145.836	-18.337	1.00	76.46	A16S
ATOM	22971	O2	U	A1090	198.538	146.425	-17.338	1.00	76.46	A16S
ATOM	22972	N3	U	A1090	197.611	144.577	-18.280	1.00	76.46	A16S
ATOM	22973	C4	U	A1090	197.154	143.812	-19.341	1.00	76.46	A16S
ATOM	22974	O4	U	A1090	196.726	142.661	-19.135	1.00	76.46	A16S
ATOM	22975	C5	U	A1090	197.279	144.449	-20.618	1.00	76.46	A16S
ATOM	22976	C2*	U	A1090	200.376	147.687	-19.541	1.00	70.17	A16S
ATOM	22977	O2*	U	A1090	200.786	148.842	-18.838	1.00	70.17	A16S
ATOM	22978	C3*	U	A1090	200.867	147.651	-20.984	1.00	70.17	A16S
ATOM	22979	O3*	U	A1090	202.198	148.121	-21.120	1.00	70.17	A16S
ATOM	22980	P	U	A1091	203.418	147.092	-20.925	1.00	65.69	A16S
ATOM	22981	O1P	U	A1091	204.656	147.817	-21.311	1.00	76.57	A16S
ATOM	22982	O2P	U	A1091	203.080	145.799	-21.578	1.00	76.57	A16S
ATOM	22983	O5*	U	A1091	203.470	146.848	-19.354	1.00	65.69	A16S
ATOM	22984	C5*	U	A1091	203.642	147.957	-18.467	1.00	65.69	A16S
ATOM	22985	C4*	U	A1091	203.489	147.522	-17.040	1.00	65.69	A16S
ATOM	22986	O4*	U	A1091	202.132	147.086	-16.779	1.00	65.69	A16S
ATOM	22987	C1*	U	A1091	202.140	146.118	-15.744	1.00	65.69	A16S
ATOM	22988	N1	U	A1091	201.462	144.899	-16.213	1.00	76.57	A16S
ATOM	22989	C6	U	A1091	201.123	144.724	-17.528	1.00	76.57	A16S
ATOM	22990	C2	U	A1091	201.184	143.919	-15.275	1.00	76.57	A16S
ATOM	22991	O2	U	A1091	201.435	144.036	-14.102	1.00	76.57	A16S
ATOM	22992	N3	U	A1091	200.591	142.794	-15.764	1.00	76.57	A16S
ATOM	22993	C4	U	A1091	200.224	142.553	-17.062	1.00	76.57	A16S
ATOM	22994	O4	U	A1091	199.607	141.515	-17.329	1.00	76.57	A16S
ATOM	22995	C5	U	A1091	200.529	143.616	-17.976	1.00	76.57	A16S
ATOM	22996	C2*	U	A1091	203.602	145.873	-15.355	1.00	65.69	A16S
ATOM	22997	O2*	U	A1091	203.944	146.628	-14.200	1.00	65.69	A16S
ATOM	22998	C3*	U	A1091	204.339	146.355	-16.597	1.00	65.69	A16S
ATOM	22999	O3*	U	A1091	205.648	146.764	-16.282	1.00	65.69	A16S
ATOM	23000	P	A	A1092	206.867	145.749	-16.512	1.00	58.62	A16S
ATOM	23001	O1P	A	A1092	206.696	145.203	-17.890	1.00	84.86	A16S
ATOM	23002	O2P	A	A1092	208.133	146.437	-16.126	1.00	84.86	A16S
ATOM	23003	O5*	A	A1092	206.623	144.567	-15.478	1.00	58.62	A16S
ATOM	23004	C5*	A	A1092	207.333	143.336	-15.628	1.00	58.62	A16S
ATOM	23005	C4*	A	A1092	207.285	142.553	-14.350	1.00	58.62	A16S
ATOM	23006	O4*	A	A1092	207.994	143.288	-13.324	1.00	58.62	A16S
ATOM	23007	C1*	A	A1092	207.277	143.211	-12.109	1.00	58.62	A16S
ATOM	23008	N9	A	A1092	206.858	144.575	-11.780	1.00	84.86	A16S
ATOM	23009	C4	A	A1092	206.469	145.059	-10.555	1.00	84.86	A16S
ATOM	23010	N3	A	A1092	206.326	144.369	-9.412	1.00	84.86	A16S
ATOM	23011	C2	A	A1092	205.989	145.179	-8.419	1.00	84.86	A16S
ATOM	23012	N1	A	A1092	205.800	146.499	-8.434	1.00	84.86	A16S
ATOM	23013	C6	A	A1092	205.951	147.162	-9.601	1.00	84.86	A16S
ATOM	23014	N6	A	A1092	205.775	148.485	-9.620	1.00	84.86	A16S
ATOM	23015	C5	A	A1092	206.291	146.418	-10.729	1.00	84.86	A16S
ATOM	23016	N7	A	A1092	206.503	146.781	-12.051	1.00	84.86	A16S



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ATOM	23017	C8	A	A1092	206.825	145.655	-12.635	1.00	84.86	A16S
ATOM	23018	C2*	A	A1092	206.127	142.220	-12.309	1.00	58.62	A16S
ATOM	23019	O2*	A	A1092	206.549	140.921	-11.934	1.00	58.62	A16S
ATOM	23020	C3*	A	A1092	205.885	142.343	-13.806	1.00	58.62	A16S
ATOM	23021	O3*	A	A1092	205.264	141.205	-14.394	1.00	58.62	A16S
ATOM	23022	P	A	A1093	203.808	141.360	-15.053	1.00	65.89	A16S
ATOM	23023	O1P	A	A1093	203.524	140.132	-15.816	1.00	75.54	A16S
ATOM	23024	O2P	A	A1093	203.716	142.673	-15.735	1.00	75.54	A16S
ATOM	23025	O5*	A	A1093	202.853	141.337	-13.786	1.00	65.89	A16S
ATOM	23026	C5*	A	A1093	202.831	140.174	-12.925	1.00	65.89	A16S
ATOM	23027	C4*	A	A1093	202.055	140.461	-11.659	1.00	65.89	A16S
ATOM	23028	O4*	A	A1093	202.813	141.379	-10.836	1.00	65.89	A16S
ATOM	23029	C1*	A	A1093	201.934	142.260	-10.172	1.00	65.89	A16S
ATOM	23030	N9	A	A1093	202.278	143.629	-10.565	1.00	75.54	A16S
ATOM	23031	C4	A	A1093	202.366	144.734	-9.750	1.00	75.54	A16S
ATOM	23032	N3	A	A1093	202.164	144.795	-8.423	1.00	75.54	A16S
ATOM	23033	C2	A	A1093	202.322	146.040	-7.979	1.00	75.54	A16S
ATOM	23034	N1	A	A1093	202.637	147.146	-8.658	1.00	75.54	A16S
ATOM	23035	C6	A	A1093	202.838	147.048	-9.989	1.00	75.54	A16S
ATOM	23036	N6	A	A1093	203.159	148.150	-10.669	1.00	75.54	A16S
ATOM	23037	C5	A	A1093	202.699	145.785	-10.581	1.00	75.54	A16S
ATOM	23038	N7	A	A1093	202.828	145.354	-11.890	1.00	75.54	A16S
ATOM	23039	C8	A	A1093	202.575	144.073	-11.824	1.00	75.54	A16S
ATOM	23040	C2*	A	A1093	200.499	141.833	-10.506	1.00	65.89	A16S
ATOM	23041	O2*	A	A1093	200.077	140.967	-9.469	1.00	65.89	A16S
ATOM	23042	C3*	A	A1093	200.679	141.098	-11.836	1.00	65.89	A16S
ATOM	23043	O3*	A	A1093	199.678	140.080	-12.054	1.00	65.89	A16S
ATOM	23044	P	G	A1094	198.597	140.225	-13.254	1.00	63.79	A16S
ATOM	23045	O1P	G	A1094	199.141	141.133	-14.293	1.00	79.28	A16S
ATOM	23046	O2P	G	A1094	198.161	138.858	-13.647	1.00	79.28	A16S
ATOM	23047	O5*	G	A1094	197.367	140.996	-12.580	1.00	63.79	A16S
ATOM	23048	C5*	G	A1094	196.182	140.304	-12.082	1.00	63.79	A16S
ATOM	23049	C4*	G	A1094	195.453	141.183	-11.081	1.00	63.79	A16S
ATOM	23050	O4*	G	A1094	194.097	140.703	-10.853	1.00	63.79	A16S
ATOM	23051	C1*	G	A1094	193.874	140.579	-9.465	1.00	63.79	A16S
ATOM	23052	N9	G	A1094	193.041	139.410	-9.224	1.00	79.28	A16S
ATOM	23053	C4	G	A1094	191.744	139.394	-8.752	1.00	79.28	A16S
ATOM	23054	N3	G	A1094	190.983	140.471	-8.474	1.00	79.28	A16S
ATOM	23055	C2	G	A1094	189.792	140.126	-8.002	1.00	79.28	A16S
ATOM	23056	N2	G	A1094	188.893	141.071	-7.681	1.00	79.28	A16S
ATOM	23057	N1	G	A1094	189.388	138.833	-7.814	1.00	79.28	A16S
ATOM	23058	C6	G	A1094	190.149	137.712	-8.100	1.00	79.28	A16S
ATOM	23059	O6	G	A1094	189.683	136.588	-7.898	1.00	79.28	A16S
ATOM	23060	C5	G	A1094	191.424	138.062	-8.613	1.00	79.28	A16S
ATOM	23061	N7	G	A1094	192.479	137.258	-9.021	1.00	79.28	A16S
ATOM	23062	C8	G	A1094	193.409	138.098	-9.381	1.00	79.28	A16S
ATOM	23063	C2*	G	A1094	195.250	140.415	-8.826	1.00	63.79	A16S
ATOM	23064	O2*	G	A1094	195.232	140.849	-7.488	1.00	63.79	A16S
ATOM	23065	C3*	G	A1094	196.113	141.300	-9.707	1.00	63.79	A16S
ATOM	23066	O3*	G	A1094	196.027	142.626	-9.208	1.00	63.79	A16S
ATOM	23067	P	U	A1095	197.142	143.168	-8.187	1.00	66.91	A16S
ATOM	23068	O1P	U	A1095	198.088	142.060	-7.956	1.00	71.89	A16S
ATOM	23069	O2P	U	A1095	196.453	143.786	-7.021	1.00	71.89	A16S
ATOM	23070	O5*	U	A1095	197.872	144.318	-9.024	1.00	66.91	A16S
ATOM	23071	C5*	U	A1095	198.808	145.208	-8.391	1.00	66.91	A16S
ATOM	23072	C4*	U	A1095	199.046	146.436	-9.236	1.00	66.91	A16S
ATOM	23073	O4*	U	A1095	199.790	146.082	-10.423	1.00	66.91	A16S
ATOM	23074	C1*	U	A1095	199.397	146.921	-11.498	1.00	66.91	A16S
ATOM	23075	N1	U	A1095	198.864	146.080	-12.580	1.00	71.89	A16S
ATOM	23076	C6	U	A1095	198.434	144.795	-12.335	1.00	71.89	A16S
ATOM	23077	C2	U	A1095	198.811	146.616	-13.859	1.00	71.89	A16S
ATOM	23078	O2	U	A1095	199.154	147.761	-14.117	1.00	71.89	A16S
ATOM	23079	N3	U	A1095	198.331	145.763	-14.823	1.00	71.89	A16S
ATOM	23080	C4	U	A1095	197.895	144.463	-14.643	1.00	71.89	A16S
ATOM	23081	O4	U	A1095	197.493	143.812	-15.612	1.00	71.89	A16S
ATOM	23082	C5	U	A1095	197.965	143.994	-13.294	1.00	71.89	A16S
ATOM	23083	C2*	U	A1095	198.362	147.915	-10.971	1.00	66.91	A16S
ATOM	23084	O2*	U	A1095	199.007	149.130	-10.643	1.00	66.91	A16S
ATOM	23085	C3*	U	A1095	197.818	147.180	-9.750	1.00	66.91	A16S
ATOM	23086	O3*	U	A1095	197.305	148.101	-8.787	1.00	66.91	A16S
ATOM	23087	P	C	A1096	195.738	148.476	-8.790	1.00	65.61	A16S
ATOM	23088	O1P	C	A1096	195.525	149.360	-7.619	1.00	75.67	A16S
ATOM	23089	O2P	C	A1096	194.968	147.197	-8.885	1.00	75.67	A16S
ATOM	23090	O5*	C	A1096	195.555	149.365	-10.102	1.00	65.61	A16S
ATOM	23091	C5*	C	A1096	195.999	150.724	-10.107	1.00	65.61	A16S
ATOM	23092	C4*	C	A1096	196.106	151.245	-11.511	1.00	65.61	A16S
ATOM	23093	O4*	C	A1096	196.962	150.358	-12.273	1.00	65.61	A16S



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ATOM	23094	C1*	C	A1096	196.545	150.341	-13.627	1.00	65.61	A16S
ATOM	23095	N1	C	A1096	196.178	148.969	-14.005	1.00	75.67	A16S
ATOM	23096	C6	C	A1096	195.888	148.025	-13.059	1.00	75.67	A16S
ATOM	23097	C2	C	A1096	196.089	148.656	-15.365	1.00	75.67	A16S
ATOM	23098	O2	C	A1096	196.433	149.507	-16.197	1.00	75.67	A16S
ATOM	23099	N3	C	A1096	195.640	147.437	-15.735	1.00	75.67	A16S
ATOM	23100	C4	C	A1096	195.312	146.539	-14.804	1.00	75.67	A16S
ATOM	23101	N4	C	A1096	194.828	145.366	-15.209	1.00	75.67	A16S
ATOM	23102	C5	C	A1096	195.456	146.810	-13.411	1.00	75.67	A16S
ATOM	23103	C2*	C	A1096	195.333	151.265	-13.758	1.00	65.61	A16S
ATOM	23104	O2*	C	A1096	195.755	152.515	-14.260	1.00	65.61	A16S
ATOM	23105	C3*	C	A1096	194.822	151.319	-12.322	1.00	65.61	A16S
ATOM	23106	O3*	C	A1096	194.095	152.520	-12.072	1.00	65.61	A16S
ATOM	23107	P	C	A1097	192.543	152.617	-12.498	1.00	79.17	A16S
ATOM	23108	O1P	C	A1097	192.026	153.935	-12.052	1.00	74.40	A16S
ATOM	23109	O2P	C	A1097	191.846	151.376	-12.077	1.00	74.40	A16S
ATOM	23110	O5*	C	A1097	192.585	152.663	-14.086	1.00	79.17	A16S
ATOM	23111	C5*	C	A1097	193.183	153.780	-14.750	1.00	79.17	A16S
ATOM	23112	C4*	C	A1097	193.129	153.592	-16.240	1.00	79.17	A16S
ATOM	23113	O4*	C	A1097	193.933	152.448	-16.623	1.00	79.17	A16S
ATOM	23114	C1*	C	A1097	193.309	151.775	-17.699	1.00	79.17	A16S
ATOM	23115	N1	C	A1097	192.951	150.419	-17.250	1.00	74.40	A16S
ATOM	23116	C6	C	A1097	193.204	150.011	-15.973	1.00	74.40	A16S
ATOM	23117	C2	C	A1097	192.335	149.548	-18.159	1.00	74.40	A16S
ATOM	23118	O2	C	A1097	192.115	149.944	-19.306	1.00	74.40	A16S
ATOM	23119	N3	C	A1097	191.996	148.305	-17.763	1.00	74.40	A16S
ATOM	23120	C4	C	A1097	192.245	147.919	-16.514	1.00	74.40	A16S
ATOM	23121	N4	C	A1097	191.891	146.683	-16.159	1.00	74.40	A16S
ATOM	23122	C5	C	A1097	192.870	148.784	-15.566	1.00	74.40	A16S
ATOM	23123	C2*	C	A1097	192.067	152.576	-18.093	1.00	79.17	A16S
ATOM	23124	O2*	C	A1097	192.370	153.481	-19.133	1.00	79.17	A16S
ATOM	23125	C3*	C	A1097	191.747	153.305	-16.801	1.00	79.17	A16S
ATOM	23126	O3*	C	A1097	191.023	154.501	-17.050	1.00	79.17	A16S
ATOM	23127	P	C	A1098	189.451	154.557	-16.737	1.00	80.51	A16S
ATOM	23128	O1P	C	A1098	189.092	155.993	-16.761	1.00	63.59	A16S
ATOM	23129	O2P	C	A1098	189.196	153.753	-15.505	1.00	63.59	A16S
ATOM	23130	O5*	C	A1098	188.766	153.847	-17.993	1.00	80.51	A16S
ATOM	23131	C5*	C	A1098	188.698	154.509	-19.273	1.00	80.51	A16S
ATOM	23132	C4*	C	A1098	188.301	153.532	-20.361	1.00	80.51	A16S
ATOM	23133	O4*	C	A1098	189.300	152.484	-20.453	1.00	80.51	A16S
ATOM	23134	C1*	C	A1098	188.680	151.255	-20.810	1.00	80.51	A16S
ATOM	23135	N1	C	A1098	188.843	150.299	-19.707	1.00	63.59	A16S
ATOM	23136	C6	C	A1098	189.136	150.721	-18.442	1.00	63.59	A16S
ATOM	23137	C2	C	A1098	188.666	148.950	-19.973	1.00	63.59	A16S
ATOM	23138	O2	C	A1098	188.422	148.597	-21.134	1.00	63.59	A16S
ATOM	23139	N3	C	A1098	188.761	148.062	-18.966	1.00	63.59	A16S
ATOM	23140	C4	C	A1098	189.023	148.484	-17.730	1.00	63.59	A16S
ATOM	23141	N4	C	A1098	189.077	147.576	-16.759	1.00	63.59	A16S
ATOM	23142	C5	C	A1098	189.232	149.856	-17.433	1.00	63.59	A16S
ATOM	23143	C2*	C	A1098	187.197	151.529	-21.018	1.00	80.51	A16S
ATOM	23144	O2*	C	A1098	186.937	151.733	-22.390	1.00	80.51	A16S
ATOM	23145	C3*	C	A1098	187.002	152.769	-20.161	1.00	80.51	A16S
ATOM	23146	O3*	C	A1098	185.859	153.482	-20.564	1.00	80.51	A16S
ATOM	23147	P	G	A1099	184.470	153.202	-19.815	1.00	80.93	A16S
ATOM	23148	O1P	G	A1099	183.489	154.188	-20.355	1.00	81.31	A16S
ATOM	23149	O2P	G	A1099	184.759	153.169	-18.353	1.00	81.31	A16S
ATOM	23150	O5*	G	A1099	184.064	151.725	-20.267	1.00	80.93	A16S
ATOM	23151	C5*	G	A1099	183.947	151.387	-21.655	1.00	80.93	A16S
ATOM	23152	C4*	G	A1099	183.820	149.891	-21.828	1.00	80.93	A16S
ATOM	23153	O4*	G	A1099	184.988	149.231	-21.285	1.00	80.93	A16S
ATOM	23154	C1*	G	A1099	184.635	147.931	-20.847	1.00	80.93	A16S
ATOM	23155	N9	G	A1099	185.036	147.747	-19.458	1.00	81.31	A16S
ATOM	23156	C4	G	A1099	184.964	146.563	-18.774	1.00	81.31	A16S
ATOM	23157	N3	G	A1099	184.513	145.394	-19.277	1.00	81.31	A16S
ATOM	23158	C2	G	A1099	184.559	144.417	-18.383	1.00	81.31	A16S
ATOM	23159	N2	G	A1099	184.138	143.182	-18.720	1.00	81.31	A16S
ATOM	23160	N1	G	A1099	185.017	144.576	-17.091	1.00	81.31	A16S
ATOM	23161	C6	G	A1099	185.490	145.767	-16.545	1.00	81.31	A16S
ATOM	23162	O6	G	A1099	185.881	145.789	-15.359	1.00	81.31	A16S
ATOM	23163	C5	G	A1099	185.441	146.836	-17.508	1.00	81.31	A16S
ATOM	23164	N7	G	A1099	185.804	148.173	-17.400	1.00	81.31	A16S
ATOM	23165	C8	G	A1099	185.546	148.674	-18.579	1.00	81.31	A16S
ATOM	23166	C2*	G	A1099	183.134	147.761	-21.033	1.00	80.93	A16S
ATOM	23167	O2*	G	A1099	182.930	147.036	-22.220	1.00	80.93	A16S
ATOM	23168	C3*	G	A1099	182.666	149.209	-21.117	1.00	80.93	A16S
ATOM	23169	O3*	G	A1099	181.449	149.333	-21.837	1.00	80.93	A16S
ATOM	23170	P	C	A1100	180.077	149.584	-21.032	1.00	59.68	A16S



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ATOM	23171	O1P	C	A1100	179.016	149.885	-22.040	1.00	82.48	A16S
ATOM	23172	O2P	C	A1100	180.372	150.566	-19.951	1.00	82.48	A16S
ATOM	23173	O5*	C	A1100	179.763	148.179	-20.343	1.00	59.68	A16S
ATOM	23174	C5*	C	A1100	179.471	147.012	-21.140	1.00	59.68	A16S
ATOM	23175	C4*	C	A1100	179.491	145.767	-20.283	1.00	59.68	A16S
ATOM	23176	O4*	C	A1100	180.805	145.601	-19.705	1.00	59.68	A16S
ATOM	23177	C1*	C	A1100	180.692	145.006	-18.429	1.00	59.68	A16S
ATOM	23178	N1	C	A1100	181.351	145.875	-17.448	1.00	82.48	A16S
ATOM	23179	C6	C	A1100	181.315	147.232	-17.573	1.00	82.48	A16S
ATOM	23180	C2	C	A1100	182.025	145.283	-16.376	1.00	82.48	A16S
ATOM	23181	O2	C	A1100	182.038	144.045	-16.279	1.00	82.48	A16S
ATOM	23182	N3	C	A1100	182.648	146.065	-15.471	1.00	82.48	A16S
ATOM	23183	C4	C	A1100	182.609	147.385	-15.601	1.00	82.48	A16S
ATOM	23184	N4	C	A1100	183.240	148.114	-14.682	1.00	82.48	A16S
ATOM	23185	C5	C	A1100	181.923	148.018	-16.680	1.00	82.48	A16S
ATOM	23186	C2*	C	A1100	179.214	144.768	-18.140	1.00	59.68	A16S
ATOM	23187	O2*	C	A1100	178.904	143.421	-18.428	1.00	59.68	A16S
ATOM	23188	C3*	C	A1100	178.559	145.762	-19.089	1.00	59.68	A16S
ATOM	23189	O3*	C	A1100	177.264	145.362	-19.473	1.00	59.68	A16S
ATOM	23190	P	A	A1101	175.989	146.013	-18.747	1.00	74.13	A16S
ATOM	23191	O1P	A	A1101	174.798	145.586	-19.548	1.00	60.93	A16S
ATOM	23192	O2P	A	A1101	176.251	147.465	-18.521	1.00	60.93	A16S
ATOM	23193	O5*	A	A1101	175.943	145.263	-17.344	1.00	74.13	A16S
ATOM	23194	C5*	A	A1101	175.849	143.838	-17.306	1.00	74.13	A16S
ATOM	23195	C4*	A	A1101	176.065	143.337	-15.912	1.00	74.13	A16S
ATOM	23196	O4*	A	A1101	175.075	143.886	-15.040	1.00	74.13	A16S
ATOM	23197	C1*	A	A1101	174.834	142.976	-13.991	1.00	74.13	A16S
ATOM	23198	N9	A	A1101	173.440	143.121	-13.575	1.00	60.93	A16S
ATOM	23199	C4	A	A1101	173.012	143.295	-12.280	1.00	60.93	A16S
ATOM	23200	N3	A	A1101	173.766	143.301	-11.164	1.00	60.93	A16S
ATOM	23201	C2	A	A1101	173.020	143.539	-10.093	1.00	60.93	A16S
ATOM	23202	N1	A	A1101	171.704	143.757	-10.013	1.00	60.93	A16S
ATOM	23203	C6	A	A1101	170.974	143.737	-11.151	1.00	60.93	A16S
ATOM	23204	N6	A	A1101	169.655	143.946	-11.068	1.00	60.93	A16S
ATOM	23205	C5	A	A1101	171.651	143.492	-12.358	1.00	60.93	A16S
ATOM	23206	N7	A	A1101	171.218	143.401	-13.674	1.00	60.93	A16S
ATOM	23207	C8	A	A1101	172.312	143.170	-14.353	1.00	60.93	A16S
ATOM	23208	C2*	A	A1101	175.275	141.575	-14.427	1.00	74.13	A16S
ATOM	23209	O2*	A	A1101	176.064	140.939	-13.447	1.00	74.13	A16S
ATOM	23210	C3*	A	A1101	175.952	141.831	-15.777	1.00	74.13	A16S
ATOM	23211	O3*	A	A1101	177.236	141.214	-16.000	1.00	74.13	A16S
ATOM	23212	P	A	A1102	178.557	141.708	-15.192	1.00	60.03	A16S
ATOM	23213	O1P	A	A1102	179.683	141.455	-16.118	1.00	61.63	A16S
ATOM	23214	O2P	A	A1102	178.628	141.172	-13.808	1.00	61.63	A16S
ATOM	23215	O5*	A	A1102	178.411	143.288	-15.096	1.00	60.03	A16S
ATOM	23216	C5*	A	A1102	179.210	144.039	-14.173	1.00	60.03	A16S
ATOM	23217	C4*	A	A1102	178.326	144.743	-13.174	1.00	60.03	A16S
ATOM	23218	O4*	A	A1102	177.514	143.769	-12.486	1.00	60.03	A16S
ATOM	23219	C1*	A	A1102	177.365	144.145	-11.136	1.00	60.03	A16S
ATOM	23220	N9	A	A1102	177.925	143.087	-10.311	1.00	61.63	A16S
ATOM	23221	C4	A	A1102	177.676	142.887	-8.982	1.00	61.63	A16S
ATOM	23222	N3	A	A1102	176.881	143.617	-8.190	1.00	61.63	A16S
ATOM	23223	C2	A	A1102	176.879	143.122	-6.957	1.00	61.63	A16S
ATOM	23224	N1	A	A1102	177.532	142.063	-6.465	1.00	61.63	A16S
ATOM	23225	C6	A	A1102	178.326	141.360	-7.289	1.00	61.63	A16S
ATOM	23226	N6	A	A1102	178.984	140.313	-6.797	1.00	61.63	A16S
ATOM	23227	C5	A	A1102	178.413	141.780	-8.621	1.00	61.63	A16S
ATOM	23228	N7	A	A1102	179.119	141.291	-9.705	1.00	61.63	A16S
ATOM	23229	C8	A	A1102	178.794	142.101	-10.681	1.00	61.63	A16S
ATOM	23230	C2*	A	A1102	178.073	145.482	-10.931	1.00	60.03	A16S
ATOM	23231	O2*	A	A1102	177.109	146.505	-11.045	1.00	60.03	A16S
ATOM	23232	C3*	A	A1102	179.072	145.482	-12.077	1.00	60.03	A16S
ATOM	23233	O3*	A	A1102	179.372	146.794	-12.525	1.00	60.03	A16S
ATOM	23234	P	C	A1103	180.588	147.610	-11.869	1.00	61.21	A16S
ATOM	23235	O1P	C	A1103	180.627	148.857	-12.681	1.00	58.39	A16S
ATOM	23236	O2P	C	A1103	181.810	146.768	-11.751	1.00	58.39	A16S
ATOM	23237	O5*	C	A1103	180.081	147.932	-10.395	1.00	61.21	A16S
ATOM	23238	C5*	C	A1103	179.100	148.952	-10.176	1.00	61.21	A16S
ATOM	23239	C4*	C	A1103	178.909	149.182	-8.705	1.00	61.21	A16S
ATOM	23240	O4*	C	A1103	178.238	148.048	-8.116	1.00	61.21	A16S
ATOM	23241	C1*	C	A1103	178.709	147.850	-6.798	1.00	61.21	A16S
ATOM	23242	N1	C	A1103	179.295	146.510	-6.715	1.00	58.39	A16S
ATOM	23243	C6	C	A1103	179.591	145.804	-7.845	1.00	58.39	A16S
ATOM	23244	C2	C	A1103	179.545	145.959	-5.452	1.00	58.39	A16S
ATOM	23245	O2	C	A1103	179.277	146.626	-4.442	1.00	58.39	A16S
ATOM	23246	N3	C	A1103	180.076	144.720	-5.365	1.00	58.39	A16S
ATOM	23247	C4	C	A1103	180.365	144.045	-6.475	1.00	58.39	A16S



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ATOM	23248	N4	C	A1103	180.905	142.847	-6.347	1.00	58.39	A16S
ATOM	23249	C5	C	A1103	180.119	144.580	-7.770	1.00	58.39	A16S
ATOM	23250	C2*	C	A1103	179.725	148.944	-6.489	1.00	61.21	A16S
ATOM	23251	O2*	C	A1103	179.052	149.958	-5.772	1.00	61.21	A16S
ATOM	23252	C3*	C	A1103	180.179	149.339	-7.892	1.00	61.21	A16S
ATOM	23253	O3*	C	A1103	180.682	150.667	-7.979	1.00	61.21	A16S
ATOM	23254	P	G	A1104	182.226	150.954	-7.636	1.00	60.38	A16S
ATOM	23255	O1P	G	A1104	182.466	152.424	-7.833	1.00	62.19	A16S
ATOM	23256	O2P	G	A1104	183.053	149.965	-8.391	1.00	62.19	A16S
ATOM	23257	O5*	G	A1104	182.304	150.632	-6.076	1.00	60.38	A16S
ATOM	23258	C5*	G	A1104	183.490	150.104	-5.474	1.00	60.38	A16S
ATOM	23259	C4*	G	A1104	183.140	149.524	-4.137	1.00	60.38	A16S
ATOM	23260	O4*	G	A1104	182.156	148.479	-4.328	1.00	60.38	A16S
ATOM	23261	C1*	G	A1104	182.354	147.465	-3.358	1.00	60.38	A16S
ATOM	23262	N9	G	A1104	182.619	146.198	-4.032	1.00	62.19	A16S
ATOM	23263	C4	G	A1104	182.763	144.990	-3.404	1.00	62.19	A16S
ATOM	23264	N3	G	A1104	182.627	144.773	-2.081	1.00	62.19	A16S
ATOM	23265	C2	G	A1104	182.866	143.520	-1.760	1.00	62.19	A16S
ATOM	23266	N2	G	A1104	182.784	143.136	-0.482	1.00	62.19	A16S
ATOM	23267	N1	G	A1104	183.208	142.554	-2.667	1.00	62.19	A16S
ATOM	23268	C6	G	A1104	183.353	142.754	-4.034	1.00	62.19	A16S
ATOM	23269	O6	G	A1104	183.675	141.812	-4.760	1.00	62.19	A16S
ATOM	23270	C5	G	A1104	183.096	144.097	-4.394	1.00	62.19	A16S
ATOM	23271	N7	G	A1104	183.122	144.723	-5.635	1.00	62.19	A16S
ATOM	23272	C8	G	A1104	182.823	145.967	-5.373	1.00	62.19	A16S
ATOM	23273	C2*	G	A1104	183.554	147.859	-2.487	1.00	60.38	A16S
ATOM	23274	O2*	G	A1104	183.149	148.386	-1.241	1.00	60.38	A16S
ATOM	23275	C3*	G	A1104	184.276	148.859	-3.380	1.00	60.38	A16S
ATOM	23276	O3*	G	A1104	185.010	149.795	-2.608	1.00	60.38	A16S
ATOM	23277	P	A	A1105	186.491	149.422	-2.098	1.00	65.13	A16S
ATOM	23278	O1P	A	A1105	186.939	150.542	-1.227	1.00	73.70	A16S
ATOM	23279	O2P	A	A1105	187.297	149.058	-3.308	1.00	73.70	A16S
ATOM	23280	O5*	A	A1105	186.294	148.147	-1.156	1.00	65.13	A16S
ATOM	23281	C5*	A	A1105	185.737	148.301	0.152	1.00	65.13	A16S
ATOM	23282	C4*	A	A1105	185.701	146.981	0.868	1.00	65.13	A16S
ATOM	23283	O4*	A	A1105	184.907	146.041	0.107	1.00	65.13	A16S
ATOM	23284	C1*	A	A1105	185.430	144.730	0.278	1.00	65.13	A16S
ATOM	23285	N9	A	A1105	185.837	144.215	-1.033	1.00	73.70	A16S
ATOM	23286	C4	A	A1105	186.222	142.924	-1.315	1.00	73.70	A16S
ATOM	23287	N3	A	A1105	186.281	141.882	-0.464	1.00	73.70	A16S
ATOM	23288	C2	A	A1105	186.701	140.789	-1.095	1.00	73.70	A16S
ATOM	23289	N1	A	A1105	187.051	140.634	-2.379	1.00	73.70	A16S
ATOM	23290	C6	A	A1105	186.984	141.702	-3.203	1.00	73.70	A16S
ATOM	23291	N6	A	A1105	187.343	141.553	-4.480	1.00	73.70	A16S
ATOM	23292	C5	A	A1105	186.543	142.914	-2.662	1.00	73.70	A16S
ATOM	23293	N7	A	A1105	186.347	144.167	-3.225	1.00	73.70	A16S
ATOM	23294	C8	A	A1105	185.930	144.901	-2.222	1.00	73.70	A16S
ATOM	23295	C2*	A	A1105	186.618	144.827	1.234	1.00	65.13	A16S
ATOM	23296	O2*	A	A1105	186.183	144.540	2.546	1.00	65.13	A16S
ATOM	23297	C3*	A	A1105	187.030	146.279	1.057	1.00	65.13	A16S
ATOM	23298	O3*	A	A1105	187.714	146.757	2.190	1.00	65.13	A16S
ATOM	23299	P	G	A1106	189.311	146.637	2.253	1.00	63.88	A16S
ATOM	23300	O1P	G	A1106	189.773	147.489	3.378	1.00	62.89	A16S
ATOM	23301	O2P	G	A1106	189.827	146.891	0.884	1.00	62.89	A16S
ATOM	23302	O5*	G	A1106	189.568	145.123	2.667	1.00	63.88	A16S
ATOM	23303	C5*	G	A1106	189.147	144.671	3.953	1.00	63.88	A16S
ATOM	23304	C4*	G	A1106	189.331	143.191	4.076	1.00	63.88	A16S
ATOM	23305	O4*	G	A1106	188.517	142.503	3.096	1.00	63.88	A16S
ATOM	23306	C1*	G	A1106	189.159	141.298	2.714	1.00	63.88	A16S
ATOM	23307	N9	G	A1106	189.381	141.307	1.269	1.00	62.89	A16S
ATOM	23308	C4	G	A1106	189.746	140.218	0.513	1.00	62.89	A16S
ATOM	23309	N3	G	A1106	189.963	138.971	0.982	1.00	62.89	A16S
ATOM	23310	C2	G	A1106	190.307	138.138	0.021	1.00	62.89	A16S
ATOM	23311	N2	G	A1106	190.573	136.863	0.325	1.00	62.89	A16S
ATOM	23312	N1	G	A1106	190.415	138.495	-1.305	1.00	62.89	A16S
ATOM	23313	C6	G	A1106	190.184	139.769	-1.815	1.00	62.89	A16S
ATOM	23314	O6	G	A1106	190.282	139.974	-3.027	1.00	62.89	A16S
ATOM	23315	C5	G	A1106	189.836	140.683	-0.786	1.00	62.89	A16S
ATOM	23316	N7	G	A1106	189.544	142.043	-0.844	1.00	62.89	A16S
ATOM	23317	C8	G	A1106	189.278	142.370	0.395	1.00	62.89	A16S
ATOM	23318	C2*	G	A1106	190.473	141.214	3.486	1.00	63.88	A16S
ATOM	23319	O2*	G	A1106	190.286	140.443	4.655	1.00	63.88	A16S
ATOM	23320	C3*	G	A1106	190.724	142.675	3.810	1.00	63.88	A16S
ATOM	23321	O3*	G	A1106	191.556	142.824	4.928	1.00	63.88	A16S
ATOM	23322	P	C	A1107	193.084	143.227	4.700	1.00	75.73	A16S
ATOM	23323	O1P	C	A1107	193.617	143.705	6.003	1.00	57.70	A16S
ATOM	23324	O2P	C	A1107	193.100	144.137	3.507	1.00	57.70	A16S



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ATOM	23325	O5*	C	A1107	193.784	141.840	4.334	1.00	75.73	A16S
ATOM	23326	C5*	C	A1107	193.662	140.703	5.214	1.00	75.73	A16S
ATOM	23327	C4*	C	A1107	194.103	139.414	4.527	1.00	75.73	A16S
ATOM	23328	O4*	C	A1107	193.127	138.957	3.553	1.00	75.73	A16S
ATOM	23329	C1*	C	A1107	193.783	138.257	2.507	1.00	75.73	A16S
ATOM	23330	N1	C	A1107	193.596	139.015	1.257	1.00	57.70	A16S
ATOM	23331	C6	C	A1107	193.120	140.292	1.291	1.00	57.70	A16S
ATOM	23332	C2	C	A1107	193.910	138.412	0.024	1.00	57.70	A16S
ATOM	23333	O2	C	A1107	194.358	137.240	0.009	1.00	57.70	A16S
ATOM	23334	N3	C	A1107	193.714	139.121	-1.117	1.00	57.70	A16S
ATOM	23335	C4	C	A1107	193.231	140.364	-1.057	1.00	57.70	A16S
ATOM	23336	N4	C	A1107	193.031	141.026	-2.195	1.00	57.70	A16S
ATOM	23337	C5	C	A1107	192.925	140.991	0.172	1.00	57.70	A16S
ATOM	23338	C2*	C	A1107	195.255	138.175	2.883	1.00	75.73	A16S
ATOM	23339	O2*	C	A1107	195.459	136.985	3.620	1.00	75.73	A16S
ATOM	23340	C3*	C	A1107	195.407	139.410	3.754	1.00	75.73	A16S
ATOM	23341	O3*	C	A1107	196.536	139.313	4.583	1.00	75.73	A16S
ATOM	23342	P	G	A1108	197.802	140.240	4.271	1.00	73.34	A16S
ATOM	23343	O1P	G	A1108	198.843	139.746	5.216	1.00	50.46	A16S
ATOM	23344	O2P	G	A1108	197.360	141.660	4.328	1.00	50.46	A16S
ATOM	23345	O5*	G	A1108	198.191	139.893	2.751	1.00	73.34	A16S
ATOM	23346	C5*	G	A1108	198.943	138.686	2.441	1.00	73.34	A16S
ATOM	23347	C4*	G	A1108	199.112	138.455	0.935	1.00	73.34	A16S
ATOM	23348	O4*	G	A1108	197.825	138.346	0.261	1.00	73.34	A16S
ATOM	23349	C1*	G	A1108	197.991	138.640	-1.120	1.00	73.34	A16S
ATOM	23350	N9	G	A1108	197.200	139.815	-1.463	1.00	50.46	A16S
ATOM	23351	C4	G	A1108	197.114	140.398	-2.710	1.00	50.46	A16S
ATOM	23352	N3	G	A1108	197.696	139.950	-3.837	1.00	50.46	A16S
ATOM	23353	C2	G	A1108	197.438	140.730	-4.874	1.00	50.46	A16S
ATOM	23354	N2	G	A1108	197.908	140.412	-6.081	1.00	50.46	A16S
ATOM	23355	N1	G	A1108	196.687	141.874	-4.814	1.00	50.46	A16S
ATOM	23356	C6	G	A1108	196.065	142.357	-3.668	1.00	50.46	A16S
ATOM	23357	O6	G	A1108	195.377	143.397	-3.724	1.00	50.46	A16S
ATOM	23358	C5	G	A1108	196.327	141.515	-2.537	1.00	50.46	A16S
ATOM	23359	N7	G	A1108	195.903	141.617	-1.217	1.00	50.46	A16S
ATOM	23360	C8	G	A1108	196.437	140.583	-0.622	1.00	50.46	A16S
ATOM	23361	C2*	G	A1108	199.465	138.963	-1.340	1.00	73.34	A16S
ATOM	23362	O2*	G	A1108	200.122	137.787	-1.783	1.00	73.34	A16S
ATOM	23363	C3*	G	A1108	199.900	139.418	0.053	1.00	73.34	A16S
ATOM	23364	O3*	G	A1108	201.324	139.331	0.171	1.00	73.34	A16S
ATOM	23365	P	C	A1109	202.237	140.614	-0.224	1.00	58.58	A16S
ATOM	23366	O1P	C	A1109	203.651	140.159	-0.359	1.00	95.47	A16S
ATOM	23367	O2P	C	A1109	201.911	141.734	0.696	1.00	95.47	A16S
ATOM	23368	O5*	C	A1109	201.729	141.084	-1.662	1.00	58.58	A16S
ATOM	23369	C5*	C	A1109	202.173	140.418	-2.847	1.00	58.58	A16S
ATOM	23370	C4*	C	A1109	202.115	141.345	-4.033	1.00	58.58	A16S
ATOM	23371	O4*	C	A1109	200.743	141.691	-4.335	1.00	58.58	A16S
ATOM	23372	C1*	C	A1109	200.685	143.007	-4.860	1.00	58.58	A16S
ATOM	23373	N1	C	A1109	199.835	143.830	-3.982	1.00	95.47	A16S
ATOM	23374	C6	C	A1109	199.603	143.471	-2.683	1.00	95.47	A16S
ATOM	23375	C2	C	A1109	199.263	144.993	-4.502	1.00	95.47	A16S
ATOM	23376	O2	C	A1109	199.512	145.315	-5.668	1.00	95.47	A16S
ATOM	23377	N3	C	A1109	198.465	145.744	-3.720	1.00	95.47	A16S
ATOM	23378	C4	C	A1109	198.245	145.387	-2.458	1.00	95.47	A16S
ATOM	23379	N4	C	A1109	197.458	146.169	-1.722	1.00	95.47	A16S
ATOM	23380	C5	C	A1109	198.824	144.215	-1.893	1.00	95.47	A16S
ATOM	23381	C2*	C	A1109	202.114	143.532	-4.940	1.00	58.58	A16S
ATOM	23382	O2*	C	A1109	202.626	143.296	-6.236	1.00	58.58	A16S
ATOM	23383	C3*	C	A1109	202.803	142.686	-3.876	1.00	58.58	A16S
ATOM	23384	O3*	C	A1109	204.209	142.598	-4.052	1.00	58.58	A16S
ATOM	23385	P	A	A1110	205.180	143.384	-3.040	1.00	64.30	A16S
ATOM	23386	O1P	A	A1110	206.561	143.022	-3.448	1.00	68.58	A16S
ATOM	23387	O2P	A	A1110	204.731	143.119	-1.635	1.00	68.58	A16S
ATOM	23388	O5*	A	A1110	204.918	144.920	-3.391	1.00	64.30	A16S
ATOM	23389	C5*	A	A1110	205.109	145.416	-4.733	1.00	64.30	A16S
ATOM	23390	C4*	A	A1110	204.456	146.769	-4.894	1.00	64.30	A16S
ATOM	23391	O4*	A	A1110	203.018	146.618	-4.776	1.00	64.30	A16S
ATOM	23392	C1*	A	A1110	202.485	147.672	-3.995	1.00	64.30	A16S
ATOM	23393	N9	A	A1110	202.149	147.107	-2.693	1.00	68.58	A16S
ATOM	23394	C4	A	A1110	201.171	147.535	-1.836	1.00	68.58	A16S
ATOM	23395	N3	A	A1110	200.331	148.568	-2.009	1.00	68.58	A16S
ATOM	23396	C2	A	A1110	199.511	148.674	-0.978	1.00	68.58	A16S
ATOM	23397	N1	A	A1110	199.431	147.917	0.120	1.00	68.58	A16S
ATOM	23398	C6	A	A1110	200.283	146.880	0.254	1.00	68.58	A16S
ATOM	23399	N6	A	A1110	200.184	146.097	1.333	1.00	68.58	A16S
ATOM	23400	C5	A	A1110	201.216	146.675	-0.758	1.00	68.58	A16S
ATOM	23401	N7	A	A1110	202.224	145.735	-0.917	1.00	68.58	A16S



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ATOM	23402	C8	A	A1110	202.747	146.036	-2.075	1.00	68.58	A16S
ATOM	23403	C2*	A	A1110	203.593	148.703	-3.821	1.00	64.30	A16S
ATOM	23404	O2*	A	A1110	203.544	149.644	-4.880	1.00	64.30	A16S
ATOM	23405	C3*	A	A1110	204.817	147.798	-3.835	1.00	64.30	A16S
ATOM	23406	O3*	A	A1110	206.044	148.467	-4.066	1.00	64.30	A16S
ATOM	23407	P	A	A1111	207.013	148.755	-2.818	1.00	88.66	A16S
ATOM	23408	O1P	A	A1111	208.264	149.332	-3.365	1.00	81.25	A16S
ATOM	23409	O2P	A	A1111	207.074	147.553	-1.938	1.00	81.25	A16S
ATOM	23410	O5*	A	A1111	206.235	149.866	-1.988	1.00	88.66	A16S
ATOM	23411	C5*	A	A1111	205.851	151.118	-2.589	1.00	88.66	A16S
ATOM	23412	C4*	A	A1111	205.025	151.927	-1.616	1.00	88.66	A16S
ATOM	23413	O4*	A	A1111	203.742	151.273	-1.423	1.00	88.66	A16S
ATOM	23414	C1*	A	A1111	203.340	151.389	-0.066	1.00	88.66	A16S
ATOM	23415	N9	A	A1111	203.323	150.046	0.525	1.00	81.25	A16S
ATOM	23416	C4	A	A1111	202.446	149.562	1.468	1.00	81.25	A16S
ATOM	23417	N3	A	A1111	201.394	150.197	2.007	1.00	81.25	A16S
ATOM	23418	C2	A	A1111	200.797	149.426	2.914	1.00	81.25	A16S
ATOM	23419	N1	A	A1111	201.109	148.192	3.317	1.00	81.25	A16S
ATOM	23420	C6	A	A1111	202.169	147.582	2.756	1.00	81.25	A16S
ATOM	23421	N6	A	A1111	202.479	146.353	3.165	1.00	81.25	A16S
ATOM	23422	C5	A	A1111	202.883	148.287	1.772	1.00	81.25	A16S
ATOM	23423	N7	A	A1111	203.990	147.953	1.005	1.00	81.25	A16S
ATOM	23424	C8	A	A1111	204.206	149.022	0.280	1.00	81.25	A16S
ATOM	23425	C2*	A	A1111	204.369	152.277	0.635	1.00	88.66	A16S
ATOM	23426	O2*	A	A1111	203.967	153.629	0.568	1.00	88.66	A16S
ATOM	23427	C3*	A	A1111	205.604	152.030	-0.213	1.00	88.66	A16S
ATOM	23428	O3*	A	A1111	206.576	153.050	-0.072	1.00	88.66	A16S
ATOM	23429	P	C	A1112	207.766	152.859	0.994	1.00	84.84	A16S
ATOM	23430	O1P	C	A1112	208.655	154.041	0.857	1.00	91.46	A16S
ATOM	23431	O2P	C	A1112	208.340	151.495	0.868	1.00	91.46	A16S
ATOM	23432	O5*	C	A1112	207.029	152.941	2.403	1.00	84.84	A16S
ATOM	23433	C5*	C	A1112	206.428	154.174	2.842	1.00	84.84	A16S
ATOM	23434	C4*	C	A1112	205.741	153.980	4.167	1.00	84.84	A16S
ATOM	23435	O4*	C	A1112	204.657	153.038	4.003	1.00	84.84	A16S
ATOM	23436	C1*	C	A1112	204.532	152.262	5.174	1.00	84.84	A16S
ATOM	23437	N1	C	A1112	204.723	150.852	4.825	1.00	91.46	A16S
ATOM	23438	C6	C	A1112	205.498	150.485	3.761	1.00	91.46	A16S
ATOM	23439	C2	C	A1112	204.116	149.884	5.619	1.00	91.46	A16S
ATOM	23440	O2	C	A1112	203.379	150.242	6.545	1.00	91.46	A16S
ATOM	23441	N3	C	A1112	204.337	148.585	5.360	1.00	91.46	A16S
ATOM	23442	C4	C	A1112	205.115	148.232	4.340	1.00	91.46	A16S
ATOM	23443	N4	C	A1112	205.320	146.926	4.139	1.00	91.46	A16S
ATOM	23444	C5	C	A1112	205.720	149.198	3.485	1.00	91.46	A16S
ATOM	23445	C2*	C	A1112	205.579	152.742	6.183	1.00	84.84	A16S
ATOM	23446	O2*	C	A1112	204.992	153.666	7.074	1.00	84.84	A16S
ATOM	23447	C3*	C	A1112	206.605	153.406	5.281	1.00	84.84	A16S
ATOM	23448	O3*	C	A1112	207.267	154.444	5.989	1.00	84.84	A16S
ATOM	23449	P	C	A1113	208.870	154.491	6.029	1.00	68.54	A16S
ATOM	23450	O1P	C	A1113	209.253	155.702	6.797	1.00	94.11	A16S
ATOM	23451	O2P	C	A1113	209.352	154.332	4.633	1.00	94.11	A16S
ATOM	23452	O5*	C	A1113	209.290	153.208	6.875	1.00	68.54	A16S
ATOM	23453	C5*	C	A1113	209.337	153.245	8.308	1.00	68.54	A16S
ATOM	23454	C4*	C	A1113	210.134	152.074	8.826	1.00	68.54	A16S
ATOM	23455	O4*	C	A1113	209.475	150.843	8.426	1.00	68.54	A16S
ATOM	23456	C1*	C	A1113	210.439	149.888	7.999	1.00	68.54	A16S
ATOM	23457	N1	C	A1113	210.296	149.704	6.530	1.00	94.11	A16S
ATOM	23458	C6	C	A1113	209.614	150.618	5.771	1.00	94.11	A16S
ATOM	23459	C2	C	A1113	210.895	148.592	5.918	1.00	94.11	A16S
ATOM	23460	O2	C	A1113	211.475	147.754	6.622	1.00	94.11	A16S
ATOM	23461	N3	C	A1113	210.824	148.461	4.573	1.00	94.11	A16S
ATOM	23462	C4	C	A1113	210.182	149.376	3.845	1.00	94.11	A16S
ATOM	23463	N4	C	A1113	210.165	149.221	2.521	1.00	94.11	A16S
ATOM	23464	C5	C	A1113	209.535	150.496	4.440	1.00	94.11	A16S
ATOM	23465	C2*	C	A1113	211.811	150.467	8.344	1.00	68.54	A16S
ATOM	23466	O2*	C	A1113	212.213	150.076	9.645	1.00	68.54	A16S
ATOM	23467	C3*	C	A1113	211.529	151.955	8.245	1.00	68.54	A16S
ATOM	23468	O3*	C	A1113	212.490	152.739	8.916	1.00	68.54	A16S
ATOM	23469	P	C	A1114	213.711	153.357	8.076	1.00	86.41	A16S
ATOM	23470	O1P	C	A1114	214.370	154.411	8.892	1.00	87.59	A16S
ATOM	23471	O2P	C	A1114	213.178	153.699	6.726	1.00	87.59	A16S
ATOM	23472	O5*	C	A1114	214.719	152.133	7.929	1.00	86.41	A16S
ATOM	23473	C5*	C	A1114	215.140	151.402	9.085	1.00	86.41	A16S
ATOM	23474	C4*	C	A1114	216.101	150.312	8.692	1.00	86.41	A16S
ATOM	23475	O4*	C	A1114	215.411	149.295	7.926	1.00	86.41	A16S
ATOM	23476	C1*	C	A1114	216.279	148.775	6.938	1.00	86.41	A16S
ATOM	23477	N1	C	A1114	215.753	149.135	5.616	1.00	87.59	A16S
ATOM	23478	C6	C	A1114	214.872	150.168	5.460	1.00	87.59	A16S



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ATOM	23479	C2	C	A1114	216.167	148.396	4.516	1.00	87.59	A16S
ATOM	23480	O2	C	A1114	216.998	147.499	4.682	1.00	87.59	A16S
ATOM	23481	N3	C	A1114	215.663	148.680	3.297	1.00	87.59	A16S
ATOM	23482	C4	C	A1114	214.782	149.671	3.157	1.00	87.59	A16S
ATOM	23483	N4	C	A1114	214.283	149.897	1.940	1.00	87.59	A16S
ATOM	23484	C5	C	A1114	214.367	150.469	4.260	1.00	87.59	A16S
ATOM	23485	C2*	C	A1114	217.643	149.414	7.149	1.00	86.41	A16S
ATOM	23486	O2*	C	A1114	218.388	148.586	8.019	1.00	86.41	A16S
ATOM	23487	C3*	C	A1114	217.253	150.729	7.798	1.00	86.41	A16S
ATOM	23488	O3*	C	A1114	218.324	151.278	8.528	1.00	86.41	A16S
ATOM	23489	P	C	A1115	219.333	152.288	7.799	1.00	93.52	A16S
ATOM	23490	O1P	C	A1115	220.298	152.701	8.851	1.00	87.49	A16S
ATOM	23491	O2P	C	A1115	218.551	153.318	7.060	1.00	87.49	A16S
ATOM	23492	O5*	C	A1115	220.105	151.385	6.736	1.00	93.52	A16S
ATOM	23493	C5*	C	A1115	221.106	150.436	7.162	1.00	93.52	A16S
ATOM	23494	C4*	C	A1115	221.768	149.800	5.967	1.00	93.52	A16S
ATOM	23495	O4*	C	A1115	220.788	149.025	5.228	1.00	93.52	A16S
ATOM	23496	C1*	C	A1115	221.062	149.109	3.838	1.00	93.52	A16S
ATOM	23497	N1	C	A1115	219.945	149.788	3.166	1.00	87.49	A16S
ATOM	23498	C6	C	A1115	219.040	150.535	3.866	1.00	87.49	A16S
ATOM	23499	C2	C	A1115	219.850	149.687	1.775	1.00	87.49	A16S
ATOM	23500	O2	C	A1115	220.656	148.965	1.175	1.00	87.49	A16S
ATOM	23501	N3	C	A1115	218.886	150.378	1.125	1.00	87.49	A16S
ATOM	23502	C4	C	A1115	218.037	151.142	1.814	1.00	87.49	A16S
ATOM	23503	N4	C	A1115	217.141	151.855	1.133	1.00	87.49	A16S
ATOM	23504	C5	C	A1115	218.081	151.223	3.237	1.00	87.49	A16S
ATOM	23505	C2*	C	A1115	222.327	149.944	3.664	1.00	93.52	A16S
ATOM	23506	O2*	C	A1115	223.437	149.087	3.542	1.00	93.52	A16S
ATOM	23507	C3*	C	A1115	222.318	150.771	4.940	1.00	93.52	A16S
ATOM	23508	O3*	C	A1115	223.593	151.271	5.274	1.00	93.52	A16S
ATOM	23509	P	C	A1116	224.003	152.746	4.790	1.00	79.37	A16S
ATOM	23510	O1P	C	A1116	225.302	153.083	5.440	1.00	70.42	A16S
ATOM	23511	O2P	C	A1116	222.839	153.656	4.955	1.00	70.42	A16S
ATOM	23512	O5*	C	A1116	224.210	152.600	3.220	1.00	79.37	A16S
ATOM	23513	C5*	C	A1116	225.164	151.681	2.693	1.00	79.37	A16S
ATOM	23514	C4*	C	A1116	225.089	151.668	1.195	1.00	79.37	A16S
ATOM	23515	O4*	C	A1116	223.812	151.125	0.772	1.00	79.37	A16S
ATOM	23516	C1*	C	A1116	223.468	151.672	-0.489	1.00	79.37	A16S
ATOM	23517	N1	C	A1116	222.138	152.288	-0.430	1.00	70.42	A16S
ATOM	23518	C6	C	A1116	221.486	152.499	0.748	1.00	70.42	A16S
ATOM	23519	C2	C	A1116	221.565	152.697	-1.631	1.00	70.42	A16S
ATOM	23520	O2	C	A1116	222.152	152.424	-2.681	1.00	70.42	A16S
ATOM	23521	N3	C	A1116	220.392	153.367	-1.622	1.00	70.42	A16S
ATOM	23522	C4	C	A1116	219.780	153.609	-0.468	1.00	70.42	A16S
ATOM	23523	N4	C	A1116	218.642	154.308	-0.499	1.00	70.42	A16S
ATOM	23524	C5	C	A1116	220.314	153.151	0.775	1.00	70.42	A16S
ATOM	23525	C2*	C	A1116	224.507	152.735	-0.839	1.00	79.37	A16S
ATOM	23526	O2*	C	A1116	225.404	152.245	-1.811	1.00	79.37	A16S
ATOM	23527	C3*	C	A1116	225.132	153.025	0.520	1.00	79.37	A16S
ATOM	23528	O3*	C	A1116	226.442	153.564	0.425	1.00	79.37	A16S
ATOM	23529	P	G	A1117	226.658	155.144	0.618	1.00	79.00	A16S
ATOM	23530	O1P	G	A1117	228.061	155.360	1.065	1.00	85.51	A16S
ATOM	23531	O2P	G	A1117	225.524	155.645	1.447	1.00	85.51	A16S
ATOM	23532	O5*	G	A1117	226.497	155.750	-0.842	1.00	79.00	A16S
ATOM	23533	C5*	G	A1117	225.349	155.430	-1.605	1.00	79.00	A16S
ATOM	23534	C4*	G	A1117	225.514	155.859	-3.028	1.00	79.00	A16S
ATOM	23535	O4*	G	A1117	224.409	155.265	-3.742	1.00	79.00	A16S
ATOM	23536	C1*	G	A1117	223.636	156.271	-4.354	1.00	79.00	A16S
ATOM	23537	N9	G	A1117	222.423	156.426	-3.554	1.00	85.51	A16S
ATOM	23538	C4	G	A1117	221.156	156.697	-4.013	1.00	85.51	A16S
ATOM	23539	N3	G	A1117	220.797	156.870	-5.303	1.00	85.51	A16S
ATOM	23540	C2	G	A1117	219.502	157.124	-5.423	1.00	85.51	A16S
ATOM	23541	N2	G	A1117	218.965	157.314	-6.638	1.00	85.51	A16S
ATOM	23542	N1	G	A1117	218.635	157.209	-4.361	1.00	85.51	A16S
ATOM	23543	C6	G	A1117	218.988	157.034	-3.026	1.00	85.51	A16S
ATOM	23544	O6	G	A1117	218.130	157.137	-2.141	1.00	85.51	A16S
ATOM	23545	C5	G	A1117	220.364	156.750	-2.885	1.00	85.51	A16S
ATOM	23546	N7	G	A1117	221.112	156.504	-1.744	1.00	85.51	A16S
ATOM	23547	C8	G	A1117	222.324	156.321	-2.186	1.00	85.51	A16S
ATOM	23548	C2*	G	A1117	224.524	157.514	-4.455	1.00	79.00	A16S
ATOM	23549	O2*	G	A1117	225.210	157.480	-5.693	1.00	79.00	A16S
ATOM	23550	C3*	G	A1117	225.413	157.366	-3.215	1.00	79.00	A16S
ATOM	23551	O3*	G	A1117	226.726	157.923	-3.392	1.00	79.00	A16S
ATOM	23552	P	C	A1118	227.221	159.160	-2.485	1.00	91.38	A16S
ATOM	23553	O1P	C	A1118	228.640	159.393	-2.845	1.00	88.53	A16S
ATOM	23554	O2P	C	A1118	226.861	158.897	-1.072	1.00	88.53	A16S
ATOM	23555	O5*	C	A1118	226.371	160.397	-3.013	1.00	91.38	A16S



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ATOM	23556	C5* C	A1118	226.660	160.991	-4.291	1.00	91.38	A16S
ATOM	23557	C4* C	A1118	225.859	162.259	-4.481	1.00	91.38	A16S
ATOM	23558	O4* C	A1118	224.453	161.926	-4.627	1.00	91.38	A16S
ATOM	23559	C1* C	A1118	223.654	162.908	-3.978	1.00	91.38	A16S
ATOM	23560	N1 C	A1118	222.946	162.263	-2.847	1.00	88.53	A16S
ATOM	23561	C6 C	A1118	223.459	161.143	-2.251	1.00	88.53	A16S
ATOM	23562	C2 C	A1118	221.738	162.816	-2.383	1.00	88.53	A16S
ATOM	23563	O2 C	A1118	221.297	163.841	-2.919	1.00	88.53	A16S
ATOM	23564	N3 C	A1118	221.091	162.221	-1.355	1.00	88.53	A16S
ATOM	23565	C4 C	A1118	221.604	161.126	-0.786	1.00	88.53	A16S
ATOM	23566	N4 C	A1118	220.930	160.565	0.226	1.00	88.53	A16S
ATOM	23567	C5 C	A1118	222.830	160.552	-1.227	1.00	88.53	A16S
ATOM	23568	C2* C	A1118	224.592	164.018	-3.507	1.00	91.38	A16S
ATOM	23569	O2* C	A1118	224.671	165.024	-4.501	1.00	91.38	A16S
ATOM	23570	C3* C	A1118	225.892	163.246	-3.322	1.00	91.38	A16S
ATOM	23571	O3* C	A1118	227.045	164.077	-3.295	1.00	91.38	A16S
ATOM	23572	P C	A1119	227.566	164.647	-1.883	1.00	100.85	A16S
ATOM	23573	O1P C	A1119	228.847	165.342	-2.149	1.00	99.45	A16S
ATOM	23574	O2P C	A1119	227.519	163.562	-0.866	1.00	99.45	A16S
ATOM	23575	O5* C	A1119	226.463	165.730	-1.497	1.00	100.85	A16S
ATOM	23576	C5* C	A1119	226.221	166.860	-2.356	1.00	100.85	A16S
ATOM	23577	C4* C	A1119	225.038	167.669	-1.867	1.00	100.85	A16S
ATOM	23578	O4* C	A1119	223.812	166.903	-2.028	1.00	100.85	A16S
ATOM	23579	C1* C	A1119	222.913	167.219	-0.975	1.00	100.85	A16S
ATOM	23580	N1 C	A1119	222.683	166.007	-0.157	1.00	99.45	A16S
ATOM	23581	C6 C	A1119	223.532	164.935	-0.223	1.00	99.45	A16S
ATOM	23582	C2 C	A1119	221.579	165.976	0.705	1.00	99.45	A16S
ATOM	23583	O2 C	A1119	220.819	166.959	0.747	1.00	99.45	A16S
ATOM	23584	N3 C	A1119	221.369	164.878	1.474	1.00	99.45	A16S
ATOM	23585	C4 C	A1119	222.207	163.842	1.404	1.00	99.45	A16S
ATOM	23586	N4 C	A1119	221.963	162.784	2.182	1.00	99.45	A16S
ATOM	23587	C5 C	A1119	223.334	163.845	0.534	1.00	99.45	A16S
ATOM	23588	C2* C	A1119	223.557	168.326	-0.141	1.00	100.85	A16S
ATOM	23589	O2* C	A1119	223.136	169.587	-0.625	1.00	100.85	A16S
ATOM	23590	C3* C	A1119	225.036	168.080	-0.401	1.00	100.85	A16S
ATOM	23591	O3* C	A1119	225.821	169.231	-0.118	1.00	100.85	A16S
ATOM	23592	P G	A1120	226.346	169.477	1.386	1.00	126.51	A16S
ATOM	23593	O1P G	A1120	227.390	170.531	1.292	1.00	109.22	A16S
ATOM	23594	O2P G	A1120	226.673	168.173	2.042	1.00	109.22	A16S
ATOM	23595	O5* G	A1120	225.072	170.069	2.144	1.00	126.51	A16S
ATOM	23596	C5* G	A1120	224.461	171.315	1.730	1.00	126.51	A16S
ATOM	23597	C4* G	A1120	223.240	171.624	2.579	1.00	126.51	A16S
ATOM	23598	O4* G	A1120	222.264	170.560	2.414	1.00	126.51	A16S
ATOM	23599	C1* G	A1120	221.570	170.351	3.632	1.00	126.51	A16S
ATOM	23600	N9 G	A1120	221.857	169.001	4.117	1.00	109.22	A16S
ATOM	23601	C4 G	A1120	221.141	168.318	5.075	1.00	109.22	A16S
ATOM	23602	N3 G	A1120	220.035	168.767	5.706	1.00	109.22	A16S
ATOM	23603	C2 G	A1120	219.579	167.895	6.589	1.00	109.22	A16S
ATOM	23604	N2 G	A1120	218.480	168.182	7.306	1.00	109.22	A16S
ATOM	23605	N1 G	A1120	220.165	166.679	6.837	1.00	109.22	A16S
ATOM	23606	C6 G	A1120	221.302	166.196	6.205	1.00	109.22	A16S
ATOM	23607	O6 G	A1120	221.750	165.091	6.521	1.00	109.22	A16S
ATOM	23608	C5 G	A1120	221.801	167.120	5.244	1.00	109.22	A16S
ATOM	23609	N7 G	A1120	222.900	167.040	4.397	1.00	109.22	A16S
ATOM	23610	C8 G	A1120	222.892	168.172	3.745	1.00	109.22	A16S
ATOM	23611	C2* G	A1120	222.059	171.402	4.625	1.00	126.51	A16S
ATOM	23612	O2* G	A1120	221.206	172.528	4.576	1.00	126.51	A16S
ATOM	23613	C3* G	A1120	223.449	171.706	4.086	1.00	126.51	A16S
ATOM	23614	O3* G	A1120	223.918	172.975	4.532	1.00	126.51	A16S
ATOM	23615	P U	A1121	224.663	173.088	5.956	1.00	132.35	A16S
ATOM	23616	O1P U	A1121	225.054	174.507	6.134	1.00	132.84	A16S
ATOM	23617	O2P U	A1121	225.693	172.026	6.061	1.00	132.84	A16S
ATOM	23618	O5* U	A1121	223.528	172.743	7.016	1.00	132.35	A16S
ATOM	23619	C5* U	A1121	222.452	173.661	7.273	1.00	132.35	A16S
ATOM	23620	C4* U	A1121	221.682	173.227	8.496	1.00	132.35	A16S
ATOM	23621	O4* U	A1121	221.001	171.976	8.219	1.00	132.35	A16S
ATOM	23622	C1* U	A1121	221.001	171.163	9.382	1.00	132.35	A16S
ATOM	23623	N1 U	A1121	221.684	169.895	9.074	1.00	132.84	A16S
ATOM	23624	C6 U	A1121	222.655	169.817	8.096	1.00	132.84	A16S
ATOM	23625	C2 U	A1121	221.321	168.773	9.806	1.00	132.84	A16S
ATOM	23626	O2 U	A1121	220.469	168.794	10.681	1.00	132.84	A16S
ATOM	23627	N3 U	A1121	221.996	167.625	9.476	1.00	132.84	A16S
ATOM	23628	C4 U	A1121	222.975	167.482	8.518	1.00	132.84	A16S
ATOM	23629	O4 U	A1121	223.503	166.384	8.358	1.00	132.84	A16S
ATOM	23630	C5 U	A1121	223.294	168.680	7.803	1.00	132.84	A16S
ATOM	23631	C2* U	A1121	221.685	171.944	10.508	1.00	132.35	A16S
ATOM	23632	O2* U	A1121	220.708	172.534	11.346	1.00	132.35	A16S



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ATOM	23633	C3* U	A1121	222.535	172.940	9.722	1.00132.35	A16S
ATOM	23634	O3* U	A1121	222.839	174.126	10.452	1.00132.35	A16S
ATOM	23635	P U	A1122	224.245	174.242	11.230	1.00110.09	A16S
ATOM	23636	O1P U	A1122	224.363	175.628	11.756	1.00137.03	A16S
ATOM	23637	O2P U	A1122	225.307	173.703	10.336	1.00137.03	A16S
ATOM	23638	O5* U	A1122	224.072	173.259	12.473	1.00110.09	A16S
ATOM	23639	C5* U	A1122	222.969	173.420	13.381	1.00110.09	A16S
ATOM	23640	C4* U	A1122	222.778	172.175	14.208	1.00110.09	A16S
ATOM	23641	O4* U	A1122	222.355	171.071	13.367	1.00110.09	A16S
ATOM	23642	C1* U	A1122	222.873	169.858	13.889	1.00110.09	A16S
ATOM	23643	N1 U	A1122	223.643	169.163	12.840	1.00137.03	A16S
ATOM	23644	C6 U	A1122	224.058	169.808	11.695	1.00137.03	A16S
ATOM	23645	C2 U	A1122	223.945	167.818	13.044	1.00137.03	A16S
ATOM	23646	O2 U	A1122	223.607	167.200	14.043	1.00137.03	A16S
ATOM	23647	N3 U	A1122	224.661	167.226	12.033	1.00137.03	A16S
ATOM	23648	C4 U	A1122	225.100	167.814	10.870	1.00137.03	A16S
ATOM	23649	O4 U	A1122	225.697	167.132	10.041	1.00137.03	A16S
ATOM	23650	C5 U	A1122	224.758	169.197	10.732	1.00137.03	A16S
ATOM	23651	C2* U	A1122	223.700	170.190	15.136	1.00110.09	A16S
ATOM	23652	O2* U	A1122	222.933	169.961	16.300	1.00110.09	A16S
ATOM	23653	C3* U	A1122	224.017	171.664	14.921	1.00110.09	A16S
ATOM	23654	O3* U	A1122	224.232	172.344	16.150	1.00110.09	A16S
ATOM	23655	P A	A1123	225.731	172.594	16.668	1.00150.26	A16S
ATOM	23656	O1P A	A1123	225.611	173.267	17.983	1.00124.41	A16S
ATOM	23657	O2P A	A1123	226.521	173.237	15.585	1.00124.41	A16S
ATOM	23658	O5* A	A1123	226.307	171.131	16.918	1.00150.26	A16S
ATOM	23659	C5* A	A1123	226.129	170.477	18.187	1.00150.26	A16S
ATOM	23660	C4* A	A1123	226.988	169.240	18.265	1.00150.26	A16S
ATOM	23661	O4* A	A1123	226.483	168.233	17.350	1.00150.26	A16S
ATOM	23662	C1* A	A1123	227.564	167.465	16.843	1.00150.26	A16S
ATOM	23663	N9 A	A1123	227.578	167.562	15.379	1.00124.41	A16S
ATOM	23664	C4 A	A1123	228.054	166.605	14.510	1.00124.41	A16S
ATOM	23665	N3 A	A1123	228.560	165.398	14.818	1.00124.41	A16S
ATOM	23666	C2 A	A1123	228.940	164.754	13.720	1.00124.41	A16S
ATOM	23667	N1 A	A1123	228.879	165.148	12.444	1.00124.41	A16S
ATOM	23668	C6 A	A1123	228.365	166.364	12.166	1.00124.41	A16S
ATOM	23669	N6 A	A1123	228.313	166.759	10.893	1.00124.41	A16S
ATOM	23670	C5 A	A1123	227.920	167.146	13.244	1.00124.41	A16S
ATOM	23671	N7 A	A1123	227.348	168.408	13.307	1.00124.41	A16S
ATOM	23672	C8 A	A1123	227.161	168.607	14.590	1.00124.41	A16S
ATOM	23673	C2* A	A1123	228.852	168.001	17.474	1.00150.26	A16S
ATOM	23674	O2* A	A1123	229.203	167.203	18.589	1.00150.26	A16S
ATOM	23675	C3* A	A1123	228.444	169.416	17.865	1.00150.26	A16S
ATOM	23676	O3* A	A1123	229.234	169.939	18.923	1.00150.26	A16S
ATOM	23677	P G	A1124	230.018	171.327	18.714	1.00174.09	A16S
ATOM	23678	O1P G	A1124	230.104	171.983	20.041	1.00151.46	A16S
ATOM	23679	O2P G	A1124	229.395	172.052	17.576	1.00151.46	A16S
ATOM	23680	O5* G	A1124	231.489	170.904	18.274	1.00174.09	A16S
ATOM	23681	C5* G	A1124	232.364	170.174	19.163	1.00174.09	A16S
ATOM	23682	C4* G	A1124	232.513	168.758	18.672	1.00174.09	A16S
ATOM	23683	O4* G	A1124	231.825	168.650	17.411	1.00174.09	A16S
ATOM	23684	C1* G	A1124	232.496	167.731	16.581	1.00174.09	A16S
ATOM	23685	N9 G	A1124	232.502	168.264	15.214	1.00151.46	A16S
ATOM	23686	C4 G	A1124	232.661	167.549	14.042	1.00151.46	A16S
ATOM	23687	N3 G	A1124	232.903	166.223	13.944	1.00151.46	A16S
ATOM	23688	C2 G	A1124	232.981	165.829	12.685	1.00151.46	A16S
ATOM	23689	N2 G	A1124	233.232	164.544	12.408	1.00151.46	A16S
ATOM	23690	N1 G	A1124	232.822	166.667	11.606	1.00151.46	A16S
ATOM	23691	C6 G	A1124	232.570	168.034	11.683	1.00151.46	A16S
ATOM	23692	O6 G	A1124	232.440	168.699	10.647	1.00151.46	A16S
ATOM	23693	C5 G	A1124	232.495	168.472	13.027	1.00151.46	A16S
ATOM	23694	N7 G	A1124	232.269	169.740	13.543	1.00151.46	A16S
ATOM	23695	C8 G	A1124	232.289	169.572	14.838	1.00151.46	A16S
ATOM	23696	C2* G	A1124	233.792	167.274	17.276	1.00174.09	A16S
ATOM	23697	O2* G	A1124	233.648	165.929	17.702	1.00174.09	A16S
ATOM	23698	C3* G	A1124	233.938	168.280	18.431	1.00174.09	A16S
ATOM	23699	O3* G	A1124	234.376	167.646	19.645	1.00174.09	A16S
ATOM	23700	P U	A1125	235.936	167.608	20.042	1.00198.94	A16S
ATOM	23701	O1P U	A1125	235.962	167.551	21.520	1.00 81.86	A16S
ATOM	23702	O2P U	A1125	236.634	168.718	19.354	1.00 81.86	A16S
ATOM	23703	O5* U	A1125	236.448	166.181	19.520	1.00198.94	A16S
ATOM	23704	C5* U	A1125	237.416	166.058	18.442	1.00198.94	A16S
ATOM	23705	C4* U	A1125	238.645	165.284	18.902	1.00198.94	A16S
ATOM	23706	O4* U	A1125	239.006	165.761	20.224	1.00198.94	A16S
ATOM	23707	C1* U	A1125	239.605	164.714	20.965	1.00198.94	A16S
ATOM	23708	N1 U	A1125	238.875	164.525	22.225	1.00 81.86	A16S
ATOM	23709	C6 U	A1125	237.653	165.133	22.459	1.00 81.86	A16S



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ATOM	23710	C2	U	A1125	239.460	163.705	23.181	1.00	81.86	A16S
ATOM	23711	O2	U	A1125	240.526	163.132	23.001	1.00	81.86	A16S
ATOM	23712	N3	U	A1125	238.742	163.571	24.347	1.00	81.86	A16S
ATOM	23713	C4	U	A1125	237.515	164.151	24.649	1.00	81.86	A16S
ATOM	23714	O4	U	A1125	236.981	163.917	25.742	1.00	81.86	A16S
ATOM	23715	C5	U	A1125	236.972	164.977	23.605	1.00	81.86	A16S
ATOM	23716	C2*	U	A1125	239.624	163.453	20.102	1.00198.94		A16S
ATOM	23717	O2*	U	A1125	240.929	163.257	19.597	1.00198.94		A16S
ATOM	23718	C3*	U	A1125	238.562	163.759	19.043	1.00198.94		A16S
ATOM	23719	O3*	U	A1125	238.886	163.082	17.808	1.00198.94		A16S
ATOM	23720	P	U	A1126	238.970	161.460	17.757	1.00163.39		A16S
ATOM	23721	O1P	U	A1126	237.613	160.971	17.396	1.00198.94		A16S
ATOM	23722	O2P	U	A1126	239.605	160.973	18.986	1.00198.94		A16S
ATOM	23723	O5*	U	A1126	239.969	161.126	16.552	1.00163.39		A16S
ATOM	23724	C5*	U	A1126	240.089	159.780	16.033	1.00163.39		A16S
ATOM	23725	C4*	U	A1126	239.479	159.701	14.649	1.00163.39		A16S
ATOM	23726	O4*	U	A1126	238.132	160.234	14.712	1.00163.39		A16S
ATOM	23727	C1*	U	A1126	237.839	160.949	13.524	1.00163.39		A16S
ATOM	23728	N1	U	A1126	237.367	162.304	13.876	1.00198.94		A16S
ATOM	23729	C6	U	A1126	237.595	162.844	15.125	1.00198.94		A16S
ATOM	23730	C2	U	A1126	236.664	163.024	12.915	1.00198.94		A16S
ATOM	23731	O2	U	A1126	236.448	162.604	11.787	1.00198.94		A16S
ATOM	23732	N3	U	A1126	236.224	164.259	13.327	1.00198.94		A16S
ATOM	23733	C4	U	A1126	236.410	164.841	14.564	1.00198.94		A16S
ATOM	23734	O4	U	A1126	235.933	165.950	14.788	1.00198.94		A16S
ATOM	23735	C5	U	A1126	237.151	164.050	15.489	1.00198.94		A16S
ATOM	23736	C2*	U	A1126	239.059	160.875	12.603	1.00163.39		A16S
ATOM	23737	O2*	U	A1126	238.842	159.877	11.629	1.00163.39		A16S
ATOM	23738	C3*	U	A1126	240.182	160.515	13.573	1.00163.39		A16S
ATOM	23739	O3*	U	A1126	241.137	159.688	12.918	1.00163.39		A16S
ATOM	23740	P	G	A1127	242.352	160.346	12.098	1.00	86.84	A16S
ATOM	23741	O1P	G	A1127	242.811	159.360	11.086	1.00196.75		A16S
ATOM	23742	O2P	G	A1127	243.317	160.883	13.084	1.00196.75		A16S
ATOM	23743	O5*	G	A1127	241.708	161.575	11.323	1.00	86.84	A16S
ATOM	23744	C5*	G	A1127	241.157	161.411	10.015	1.00	86.84	A16S
ATOM	23745	C4*	G	A1127	240.576	162.713	9.533	1.00	86.84	A16S
ATOM	23746	O4*	G	A1127	239.530	163.144	10.439	1.00	86.84	A16S
ATOM	23747	C1*	G	A1127	239.499	164.560	10.488	1.00	86.84	A16S
ATOM	23748	N9	G	A1127	239.596	164.994	11.878	1.00196.75		A16S
ATOM	23749	C4	G	A1127	239.474	166.282	12.317	1.00196.75		A16S
ATOM	23750	N3	G	A1127	239.265	167.358	11.537	1.00196.75		A16S
ATOM	23751	C2	G	A1127	239.176	168.465	12.242	1.00196.75		A16S
ATOM	23752	N2	G	A1127	238.960	169.628	11.615	1.00196.75		A16S
ATOM	23753	N1	G	A1127	239.290	168.512	13.610	1.00196.75		A16S
ATOM	23754	C6	G	A1127	239.508	167.411	14.434	1.00196.75		A16S
ATOM	23755	O6	G	A1127	239.590	167.560	15.658	1.00196.75		A16S
ATOM	23756	C5	G	A1127	239.603	166.218	13.686	1.00196.75		A16S
ATOM	23757	N7	G	A1127	239.816	164.913	14.101	1.00196.75		A16S
ATOM	23758	C8	G	A1127	239.808	164.221	12.995	1.00196.75		A16S
ATOM	23759	C2*	G	A1127	240.618	165.096	9.595	1.00	86.84	A16S
ATOM	23760	O2*	G	A1127	240.063	165.515	8.362	1.00	86.84	A16S
ATOM	23761	C3*	G	A1127	241.542	163.883	9.492	1.00	86.84	A16S
ATOM	23762	O3*	G	A1127	242.292	163.867	8.289	1.00	86.84	A16S
ATOM	23763	P	C	A1128	243.833	163.414	8.318	1.00118.66		A16S
ATOM	23764	O1P	C	A1128	243.890	162.054	7.731	1.00142.52		A16S
ATOM	23765	O2P	C	A1128	244.388	163.637	9.677	1.00142.52		A16S
ATOM	23766	O5*	C	A1128	244.520	164.435	7.305	1.00118.66		A16S
ATOM	23767	C5*	C	A1128	243.766	164.999	6.208	1.00118.66		A16S
ATOM	23768	C4*	C	A1128	243.511	166.471	6.447	1.00118.66		A16S
ATOM	23769	O4*	C	A1128	243.002	166.637	7.792	1.00118.66		A16S
ATOM	23770	C1*	C	A1128	243.420	167.888	8.302	1.00118.66		A16S
ATOM	23771	N1	C	A1128	243.967	167.713	9.661	1.00142.52		A16S
ATOM	23772	C6	C	A1128	244.406	166.494	10.096	1.00142.52		A16S
ATOM	23773	C2	C	A1128	243.991	168.817	10.521	1.00142.52		A16S
ATOM	23774	O2	C	A1128	243.664	169.931	10.081	1.00142.52		A16S
ATOM	23775	N3	C	A1128	244.385	168.645	11.805	1.00142.52		A16S
ATOM	23776	C4	C	A1128	244.776	167.440	12.228	1.00142.52		A16S
ATOM	23777	N4	C	A1128	245.134	167.310	13.507	1.00142.52		A16S
ATOM	23778	C5	C	A1128	244.813	166.315	11.360	1.00142.52		A16S
ATOM	23779	C2*	C	A1128	244.311	168.571	7.267	1.00118.66		A16S
ATOM	23780	O2*	C	A1128	243.503	169.488	6.570	1.00118.66		A16S
ATOM	23781	C3*	C	A1128	244.711	167.410	6.362	1.00118.66		A16S
ATOM	23782	O3*	C	A1128	244.841	167.865	5.014	1.00118.66		A16S
ATOM	23783	P	C	A1129	246.059	168.822	4.598	1.00198.08		A16S
ATOM	23784	O1P	C	A1129	245.778	169.237	3.202	1.00195.18		A16S
ATOM	23785	O2P	C	A1129	247.332	168.129	4.922	1.00195.18		A16S
ATOM	23786	O5*	C	A1129	245.894	170.110	5.527	1.00198.08		A16S



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ATOM	23787	C5*	C	A1129	246.896	170.488	6.512	1.00198.08	A16S
ATOM	23788	C4*	C	A1129	247.231	171.958	6.360	1.00198.08	A16S
ATOM	23789	O4*	C	A1129	247.845	172.502	7.560	1.00198.08	A16S
ATOM	23790	C1*	C	A1129	248.657	173.612	7.202	1.00198.08	A16S
ATOM	23791	N1	C	A1129	249.938	173.586	7.959	1.00195.18	A16S
ATOM	23792	C6	C	A1129	250.412	172.428	8.515	1.00195.18	A16S
ATOM	23793	C2	C	A1129	250.669	174.793	8.107	1.00195.18	A16S
ATOM	23794	O2	C	A1129	250.231	175.840	7.594	1.00195.18	A16S
ATOM	23795	N3	C	A1129	251.831	174.780	8.805	1.00195.18	A16S
ATOM	23796	C4	C	A1129	252.276	173.642	9.343	1.00195.18	A16S
ATOM	23797	N4	C	A1129	253.427	173.681	10.021	1.00195.18	A16S
ATOM	23798	C5	C	A1129	251.563	172.411	9.210	1.00195.18	A16S
ATOM	23799	C2*	C	A1129	248.743	173.686	5.670	1.00198.08	A16S
ATOM	23800	O2*	C	A1129	247.991	174.816	5.276	1.00198.08	A16S
ATOM	23801	C3*	C	A1129	248.198	172.311	5.240	1.00198.08	A16S
ATOM	23802	O3*	C	A1129	247.531	172.145	3.968	1.00198.08	A16S
ATOM	23803	P	A	A1130	247.430	173.349	2.902	1.00147.55	A16S
ATOM	23804	O1P	A	A1130	248.767	173.637	2.309	1.00117.08	A16S
ATOM	23805	O2P	A	A1130	246.663	174.430	3.564	1.00117.08	A16S
ATOM	23806	O5*	A	A1130	246.498	172.749	1.756	1.00147.55	A16S
ATOM	23807	C5*	A	A1130	245.344	171.961	2.102	1.00147.55	A16S
ATOM	23808	C4*	A	A1130	244.085	172.783	1.977	1.00147.55	A16S
ATOM	23809	O4*	A	A1130	243.081	172.136	2.793	1.00147.55	A16S
ATOM	23810	C1*	A	A1130	242.334	173.108	3.494	1.00147.55	A16S
ATOM	23811	N9	A	A1130	242.543	172.885	4.922	1.00117.08	A16S
ATOM	23812	C4	A	A1130	241.826	173.439	5.956	1.00117.08	A16S
ATOM	23813	N3	A	A1130	240.829	174.336	5.869	1.00117.08	A16S
ATOM	23814	C2	A	A1130	240.348	174.618	7.078	1.00117.08	A16S
ATOM	23815	N1	A	A1130	240.719	174.137	8.275	1.00117.08	A16S
ATOM	23816	C6	A	A1130	241.723	173.236	8.326	1.00117.08	A16S
ATOM	23817	N6	A	A1130	242.080	172.743	9.516	1.00117.08	A16S
ATOM	23818	C5	A	A1130	242.327	172.864	7.112	1.00117.08	A16S
ATOM	23819	N7	A	A1130	243.371	172.001	6.815	1.00117.08	A16S
ATOM	23820	C8	A	A1130	243.463	172.055	5.508	1.00117.08	A16S
ATOM	23821	C2*	A	A1130	242.777	174.489	3.020	1.00147.55	A16S
ATOM	23822	O2*	A	A1130	241.894	174.920	2.006	1.00147.55	A16S
ATOM	23823	C3*	A	A1130	244.188	174.205	2.520	1.00147.55	A16S
ATOM	23824	O3*	A	A1130	244.572	175.104	1.472	1.00147.55	A16S
ATOM	23825	P	G	A1131	245.486	176.407	1.786	1.00198.90	A16S
ATOM	23826	O1P	G	A1131	245.109	177.438	0.770	1.00145.43	A16S
ATOM	23827	O2P	G	A1131	246.910	176.001	1.905	1.00145.43	A16S
ATOM	23828	O5*	G	A1131	245.003	176.945	3.210	1.00198.90	A16S
ATOM	23829	C5*	G	A1131	244.858	178.363	3.438	1.00198.90	A16S
ATOM	23830	C4*	G	A1131	245.355	178.744	4.812	1.00198.90	A16S
ATOM	23831	O4*	G	A1131	244.457	178.221	5.823	1.00198.90	A16S
ATOM	23832	C1*	G	A1131	245.187	177.947	7.004	1.00198.90	A16S
ATOM	23833	N9	G	A1131	245.068	176.530	7.308	1.00145.43	A16S
ATOM	23834	C4	G	A1131	244.964	175.974	8.556	1.00145.43	A16S
ATOM	23835	N3	G	A1131	244.896	176.650	9.723	1.00145.43	A16S
ATOM	23836	C2	G	A1131	244.836	175.834	10.764	1.00145.43	A16S
ATOM	23837	N2	G	A1131	244.763	176.336	12.007	1.00145.43	A16S
ATOM	23838	N1	G	A1131	244.842	174.464	10.666	1.00145.43	A16S
ATOM	23839	C6	G	A1131	244.909	173.747	9.477	1.00145.43	A16S
ATOM	23840	O6	G	A1131	244.909	172.510	9.501	1.00145.43	A16S
ATOM	23841	C5	G	A1131	244.972	174.611	8.350	1.00145.43	A16S
ATOM	23842	N7	G	A1131	245.045	174.320	6.995	1.00145.43	A16S
ATOM	23843	C8	G	A1131	245.088	175.487	6.416	1.00145.43	A16S
ATOM	23844	C2*	G	A1131	246.653	178.297	6.750	1.00198.90	A16S
ATOM	23845	O2*	G	A1131	246.948	179.567	7.293	1.00198.90	A16S
ATOM	23846	C3*	G	A1131	246.730	178.244	5.229	1.00198.90	A16S
ATOM	23847	O3*	G	A1131	247.791	179.052	4.732	1.00198.90	A16S
ATOM	23848	P	C	A1132	249.318	178.615	4.997	1.00198.05	A16S
ATOM	23849	O1P	C	A1132	250.150	179.299	3.975	1.00163.84	A16S
ATOM	23850	O2P	C	A1132	249.379	177.139	5.117	1.00163.84	A16S
ATOM	23851	O5*	C	A1132	249.652	179.227	6.433	1.00198.05	A16S
ATOM	23852	C5*	C	A1132	249.723	180.656	6.633	1.00198.05	A16S
ATOM	23853	C4*	C	A1132	250.008	180.980	8.085	1.00198.05	A16S
ATOM	23854	O4*	C	A1132	248.901	180.543	8.915	1.00198.05	A16S
ATOM	23855	C1*	C	A1132	249.387	180.153	10.189	1.00198.05	A16S
ATOM	23856	N1	C	A1132	248.944	178.773	10.484	1.00163.84	A16S
ATOM	23857	C6	C	A1132	248.447	177.964	9.499	1.00163.84	A16S
ATOM	23858	C2	C	A1132	249.042	178.298	11.806	1.00163.84	A16S
ATOM	23859	O2	C	A1132	249.498	179.045	12.687	1.00163.84	A16S
ATOM	23860	N3	C	A1132	248.640	177.039	12.086	1.00163.84	A16S
ATOM	23861	C4	C	A1132	248.162	176.259	11.116	1.00163.84	A16S
ATOM	23862	N4	C	A1132	247.785	175.020	11.441	1.00163.84	A16S
ATOM	23863	C5	C	A1132	248.049	176.714	9.768	1.00163.84	A16S



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ATOM	23864	C2* C	A1132	250.908	180.328	10.195	1.00198.05	A16S
ATOM	23865	O2* C	A1132	251.239	181.543	10.839	1.00198.05	A16S
ATOM	23866	C3* C	A1132	251.236	180.327	8.705	1.00198.05	A16S
ATOM	23867	O3* C	A1132	252.424	181.067	8.430	1.00198.05	A16S
ATOM	23868	P G	A1133	253.852	180.323	8.444	1.00167.72	A16S
ATOM	23869	O1P G	A1133	254.846	181.266	7.862	1.00196.27	A16S
ATOM	23870	O2P G	A1133	253.683	178.973	7.841	1.00196.27	A16S
ATOM	23871	O5* G	A1133	254.182	180.128	9.993	1.00167.72	A16S
ATOM	23872	C5* G	A1133	254.690	181.218	10.792	1.00167.72	A16S
ATOM	23873	C4* G	A1133	254.887	180.774	12.224	1.00167.72	A16S
ATOM	23874	O4* G	A1133	253.604	180.394	12.786	1.00167.72	A16S
ATOM	23875	C1* G	A1133	253.769	179.284	13.652	1.00167.72	A16S
ATOM	23876	N9 G	A1133	253.030	178.154	13.097	1.00196.27	A16S
ATOM	23877	C4 G	A1133	252.622	177.034	13.781	1.00196.27	A16S
ATOM	23878	N3 G	A1133	252.797	176.801	15.100	1.00196.27	A16S
ATOM	23879	C2 G	A1133	252.317	175.625	15.461	1.00196.27	A16S
ATOM	23880	N2 G	A1133	252.396	175.238	16.740	1.00196.27	A16S
ATOM	23881	N1 G	A1133	251.722	174.745	14.594	1.00196.27	A16S
ATOM	23882	C6 G	A1133	251.536	174.964	13.231	1.00196.27	A16S
ATOM	23883	O6 G	A1133	250.994	174.099	12.535	1.00196.27	A16S
ATOM	23884	C5 G	A1133	252.034	176.224	12.834	1.00196.27	A16S
ATOM	23885	N7 G	A1133	252.046	176.831	11.587	1.00196.27	A16S
ATOM	23886	C8 G	A1133	252.639	177.974	11.791	1.00196.27	A16S
ATOM	23887	C2* G	A1133	255.262	178.965	13.724	1.00167.72	A16S
ATOM	23888	O2* G	A1133	255.832	179.564	14.869	1.00167.72	A16S
ATOM	23889	C3* G	A1133	255.764	179.546	12.409	1.00167.72	A16S
ATOM	23890	O3* G	A1133	257.146	179.866	12.447	1.00167.72	A16S
ATOM	23891	P G	A1134	258.228	178.750	12.031	1.00128.27	A16S
ATOM	23892	O1P G	A1134	259.552	179.418	11.959	1.00198.72	A16S
ATOM	23893	O2P G	A1134	257.714	178.015	10.846	1.00198.72	A16S
ATOM	23894	O5* G	A1134	258.247	177.750	13.271	1.00128.27	A16S
ATOM	23895	C5* G	A1134	258.774	178.171	14.535	1.00128.27	A16S
ATOM	23896	C4* G	A1134	258.637	177.069	15.551	1.00128.27	A16S
ATOM	23897	O4* G	A1134	257.230	176.805	15.787	1.00128.27	A16S
ATOM	23898	C1* G	A1134	257.039	175.419	16.020	1.00128.27	A16S
ATOM	23899	N9 G	A1134	256.194	174.883	14.953	1.00198.72	A16S
ATOM	23900	C4 G	A1134	255.781	173.576	14.819	1.00198.72	A16S
ATOM	23901	N3 G	A1134	256.054	172.567	15.675	1.00198.72	A16S
ATOM	23902	C2 G	A1134	255.545	171.420	15.265	1.00198.72	A16S
ATOM	23903	N2 G	A1134	255.719	170.313	16.003	1.00198.72	A16S
ATOM	23904	N1 G	A1134	254.826	171.273	14.103	1.00198.72	A16S
ATOM	23905	C6 G	A1134	254.533	172.296	13.206	1.00198.72	A16S
ATOM	23906	O6 G	A1134	253.884	172.051	12.181	1.00198.72	A16S
ATOM	23907	C5 G	A1134	255.068	173.536	13.639	1.00198.72	A16S
ATOM	23908	N7 G	A1134	255.009	174.794	13.056	1.00198.72	A16S
ATOM	23909	C8 G	A1134	255.682	175.561	13.870	1.00198.72	A16S
ATOM	23910	C2* G	A1134	258.422	174.758	16.016	1.00128.27	A16S
ATOM	23911	O2* G	A1134	258.923	174.661	17.336	1.00128.27	A16S
ATOM	23912	C3* G	A1134	259.219	175.723	15.149	1.00128.27	A16S
ATOM	23913	O3* G	A1134	260.621	175.640	15.385	1.00128.27	A16S
ATOM	23914	P U	A1135	261.591	175.035	14.244	1.00197.56	A16S
ATOM	23915	O1P U	A1135	261.027	175.415	12.918	1.00170.95	A16S
ATOM	23916	O2P U	A1135	262.991	175.407	14.576	1.00170.95	A16S
ATOM	23917	O5* U	A1135	261.453	173.453	14.399	1.00197.56	A16S
ATOM	23918	C5* U	A1135	261.594	172.814	15.686	1.00197.56	A16S
ATOM	23919	C4* U	A1135	260.947	171.449	15.661	1.00197.56	A16S
ATOM	23920	O4* U	A1135	259.562	171.602	15.261	1.00197.56	A16S
ATOM	23921	C1* U	A1135	259.176	170.520	14.432	1.00197.56	A16S
ATOM	23922	N1 U	A1135	258.703	171.065	13.147	1.00170.95	A16S
ATOM	23923	C6 U	A1135	259.315	172.151	12.558	1.00170.95	A16S
ATOM	23924	C2 U	A1135	257.608	170.460	12.550	1.00170.95	A16S
ATOM	23925	O2 U	A1135	257.053	169.478	13.014	1.00170.95	A16S
ATOM	23926	N3 U	A1135	257.188	171.048	11.384	1.00170.95	A16S
ATOM	23927	C4 U	A1135	257.739	172.144	10.760	1.00170.95	A16S
ATOM	23928	O4 U	A1135	257.202	172.596	9.750	1.00170.95	A16S
ATOM	23929	C5 U	A1135	258.881	172.694	11.418	1.00170.95	A16S
ATOM	23930	C2* U	A1135	260.360	169.555	14.331	1.00197.56	A16S
ATOM	23931	O2* U	A1135	260.192	168.512	15.271	1.00197.56	A16S
ATOM	23932	C3* U	A1135	261.540	170.463	14.665	1.00197.56	A16S
ATOM	23933	O3* U	A1135	262.611	169.738	15.263	1.00197.56	A16S
ATOM	23934	P U	A1136	263.613	168.878	14.343	1.00198.81	A16S
ATOM	23935	O1P U	A1136	263.334	169.200	12.917	1.00192.71	A16S
ATOM	23936	O2P U	A1136	264.980	169.069	14.883	1.00192.71	A16S
ATOM	23937	O5* U	A1136	263.183	167.366	14.605	1.00198.81	A16S
ATOM	23938	C5* U	A1136	264.051	166.263	14.246	1.00198.81	A16S
ATOM	23939	C4* U	A1136	263.668	165.028	15.031	1.00198.81	A16S
ATOM	23940	O4* U	A1136	263.866	165.307	16.438	1.00198.81	A16S



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ATOM	23941	C1* U	A1136	262.790	164.779	17.190	1.00198.81	A16S
ATOM	23942	N1 U	A1136	262.129	165.905	17.869	1.00192.71	A16S
ATOM	23943	C6 U	A1136	262.209	167.185	17.359	1.00192.71	A16S
ATOM	23944	C2 U	A1136	261.433	165.648	19.038	1.00192.71	A16S
ATOM	23945	O2 U	A1136	261.327	164.531	19.524	1.00192.71	A16S
ATOM	23946	N3 U	A1136	260.862	166.752	19.619	1.00192.71	A16S
ATOM	23947	C4 U	A1136	260.914	168.055	19.163	1.00192.71	A16S
ATOM	23948	O4 U	A1136	260.360	168.945	19.809	1.00192.71	A16S
ATOM	23949	C5 U	A1136	261.643	168.236	17.949	1.00192.71	A16S
ATOM	23950	C2* U	A1136	261.883	163.991	16.240	1.00198.81	A16S
ATOM	23951	O2* U	A1136	262.205	162.613	16.298	1.00198.81	A16S
ATOM	23952	C3* U	A1136	262.203	164.635	14.895	1.00198.81	A16S
ATOM	23953	O3* U	A1136	262.024	163.718	13.817	1.00198.81	A16S
ATOM	23954	P C	A1137	261.782	164.269	12.325	1.00198.94	A16S
ATOM	23955	O1P C	A1137	263.068	164.830	11.824	1.00179.09	A16S
ATOM	23956	O2P C	A1137	261.097	163.203	11.552	1.00179.09	A16S
ATOM	23957	O5* C	A1137	260.759	165.473	12.508	1.00198.94	A16S
ATOM	23958	C5* C	A1137	259.384	165.228	12.842	1.00198.94	A16S
ATOM	23959	C4* C	A1137	258.495	165.662	11.706	1.00198.94	A16S
ATOM	23960	O4* C	A1137	258.740	167.058	11.429	1.00198.94	A16S
ATOM	23961	C1* C	A1137	258.633	167.291	10.042	1.00198.94	A16S
ATOM	23962	N1 C	A1137	259.872	167.944	9.584	1.00179.09	A16S
ATOM	23963	C6 C	A1137	261.087	167.611	10.121	1.00179.09	A16S
ATOM	23964	C2 C	A1137	259.785	168.927	8.592	1.00179.09	A16S
ATOM	23965	O2 C	A1137	258.672	169.203	8.110	1.00179.09	A16S
ATOM	23966	N3 C	A1137	260.914	169.551	8.180	1.00179.09	A16S
ATOM	23967	C4 C	A1137	262.093	169.224	8.717	1.00179.09	A16S
ATOM	23968	N4 C	A1137	263.179	169.872	8.282	1.00179.09	A16S
ATOM	23969	C5 C	A1137	262.210	168.220	9.722	1.00179.09	A16S
ATOM	23970	C2* C	A1137	258.272	165.972	9.347	1.00198.94	A16S
ATOM	23971	O2* C	A1137	256.884	165.968	9.082	1.00198.94	A16S
ATOM	23972	C3* C	A1137	258.696	164.929	10.385	1.00198.94	A16S
ATOM	23973	O3* C	A1137	257.823	163.793	10.380	1.00198.94	A16S
ATOM	23974	P G	A1138	258.184	162.470	9.527	1.00167.61	A16S
ATOM	23975	O1P G	A1138	258.109	162.814	8.079	1.00180.07	A16S
ATOM	23976	O2P G	A1138	259.424	161.867	10.073	1.00180.07	A16S
ATOM	23977	O5* G	A1138	256.972	161.486	9.873	1.00167.61	A16S
ATOM	23978	C5* G	A1138	255.648	162.018	10.133	1.00167.61	A16S
ATOM	23979	C4* G	A1138	254.857	161.121	11.071	1.00167.61	A16S
ATOM	23980	O4* G	A1138	255.679	160.686	12.182	1.00167.61	A16S
ATOM	23981	C1* G	A1138	254.922	160.710	13.384	1.00167.61	A16S
ATOM	23982	N9 G	A1138	255.613	161.602	14.313	1.00180.07	A16S
ATOM	23983	C4 G	A1138	255.886	162.944	14.123	1.00180.07	A16S
ATOM	23984	N3 G	A1138	255.514	163.690	13.059	1.00180.07	A16S
ATOM	23985	C2 G	A1138	255.934	164.938	13.156	1.00180.07	A16S
ATOM	23986	N2 G	A1138	255.633	165.821	12.194	1.00180.07	A16S
ATOM	23987	N1 G	A1138	256.677	165.417	14.206	1.00180.07	A16S
ATOM	23988	C6 G	A1138	257.079	164.671	15.310	1.00180.07	A16S
ATOM	23989	O6 G	A1138	257.759	165.202	16.196	1.00180.07	A16S
ATOM	23990	C5 G	A1138	256.616	163.327	15.229	1.00180.07	A16S
ATOM	23991	N7 G	A1138	256.773	162.263	16.110	1.00180.07	A16S
ATOM	23992	C8 G	A1138	256.157	161.266	15.530	1.00180.07	A16S
ATOM	23993	C2* G	A1138	253.484	161.116	13.038	1.00167.61	A16S
ATOM	23994	O2* G	A1138	252.649	159.979	12.947	1.00167.61	A16S
ATOM	23995	C3* G	A1138	253.675	161.840	11.710	1.00167.61	A16S
ATOM	23996	O3* G	A1138	252.532	161.801	10.870	1.00167.61	A16S
ATOM	23997	P G	A1139	252.355	162.924	9.734	1.00154.96	A16S
ATOM	23998	O1P G	A1139	253.078	162.452	8.526	1.00174.64	A16S
ATOM	23999	O2P G	A1139	252.701	164.241	10.326	1.00174.64	A16S
ATOM	24000	O5* G	A1139	250.797	162.923	9.400	1.00154.96	A16S
ATOM	24001	C5* G	A1139	249.819	162.541	10.387	1.00154.96	A16S
ATOM	24002	C4* G	A1139	249.839	163.512	11.540	1.00154.96	A16S
ATOM	24003	O4* G	A1139	249.778	164.864	11.045	1.00154.96	A16S
ATOM	24004	C1* G	A1139	249.170	165.683	12.016	1.00154.96	A16S
ATOM	24005	N9 G	A1139	248.370	166.715	11.355	1.00174.64	A16S
ATOM	24006	C4 G	A1139	248.028	167.940	11.886	1.00174.64	A16S
ATOM	24007	N3 G	A1139	248.298	168.367	13.139	1.00174.64	A16S
ATOM	24008	C2 G	A1139	247.870	169.602	13.345	1.00174.64	A16S
ATOM	24009	N2 G	A1139	248.039	170.171	14.545	1.00174.64	A16S
ATOM	24010	N1 G	A1139	247.243	170.366	12.394	1.00174.64	A16S
ATOM	24011	C6 G	A1139	246.959	169.954	11.097	1.00174.64	A16S
ATOM	24012	O6 G	A1139	246.400	170.729	10.317	1.00174.64	A16S
ATOM	24013	C5 G	A1139	247.396	168.618	10.864	1.00174.64	A16S
ATOM	24014	N7 G	A1139	247.295	167.820	9.730	1.00174.64	A16S
ATOM	24015	C8 G	A1139	247.874	166.699	10.070	1.00174.64	A16S
ATOM	24016	C2* G	A1139	248.568	164.805	13.119	1.00154.96	A16S
ATOM	24017	O2* G	A1139	249.340	165.039	14.275	1.00154.96	A16S



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ATOM	24018	C3*	G	A1139	248.687	163.393	12.519	1.00154.96	A16S
ATOM	24019	O3*	G	A1139	249.005	162.278	13.373	1.00154.96	A16S
ATOM	24020	P	C	A1140	249.025	162.424	14.973	1.00159.01	A16S
ATOM	24021	O1P	C	A1140	249.077	161.033	15.505	1.00150.61	A16S
ATOM	24022	O2P	C	A1140	247.919	163.325	15.395	1.00150.61	A16S
ATOM	24023	O5*	C	A1140	250.432	163.122	15.279	1.00159.01	A16S
ATOM	24024	C5*	C	A1140	251.436	162.452	16.082	1.00159.01	A16S
ATOM	24025	C4*	C	A1140	252.402	163.446	16.712	1.00159.01	A16S
ATOM	24026	O4*	C	A1140	253.404	163.887	15.760	1.00159.01	A16S
ATOM	24027	C1*	C	A1140	253.860	165.183	16.123	1.00159.01	A16S
ATOM	24028	N1	C	A1140	253.695	166.109	14.985	1.00150.61	A16S
ATOM	24029	C6	C	A1140	252.770	165.875	14.006	1.00150.61	A16S
ATOM	24030	C2	C	A1140	254.512	167.254	14.925	1.00150.61	A16S
ATOM	24031	O2	C	A1140	255.348	167.450	15.824	1.00150.61	A16S
ATOM	24032	N3	C	A1140	254.370	168.113	13.890	1.00150.61	A16S
ATOM	24033	C4	C	A1140	253.463	167.872	12.942	1.00150.61	A16S
ATOM	24034	N4	C	A1140	253.359	168.751	11.940	1.00150.61	A16S
ATOM	24035	C5	C	A1140	252.623	166.721	12.977	1.00150.61	A16S
ATOM	24036	C2*	C	A1140	253.074	165.634	17.352	1.00159.01	A16S
ATOM	24037	O2*	C	A1140	253.848	165.412	18.515	1.00159.01	A16S
ATOM	24038	C3*	C	A1140	251.844	164.739	17.286	1.00159.01	A16S
ATOM	24039	O3*	C	A1140	251.283	164.587	18.574	1.00159.01	A16S
ATOM	24040	P	C	A1141	250.270	165.704	19.121	1.00185.16	A16S
ATOM	24041	O1P	C	A1141	249.915	165.322	20.512	1.00169.12	A16S
ATOM	24042	O2P	C	A1141	249.194	165.878	18.111	1.00169.12	A16S
ATOM	24043	O5*	C	A1141	251.141	167.042	19.141	1.00185.16	A16S
ATOM	24044	C5*	C	A1141	252.045	167.339	20.232	1.00185.16	A16S
ATOM	24045	C4*	C	A1141	252.310	168.829	20.308	1.00185.16	A16S
ATOM	24046	O4*	C	A1141	253.114	169.250	19.177	1.00185.16	A16S
ATOM	24047	C1*	C	A1141	252.722	170.552	18.771	1.00185.16	A16S
ATOM	24048	N1	C	A1141	252.321	170.507	17.353	1.00169.12	A16S
ATOM	24049	C6	C	A1141	251.814	169.362	16.801	1.00169.12	A16S
ATOM	24050	C2	C	A1141	252.469	171.661	16.573	1.00169.12	A16S
ATOM	24051	O2	C	A1141	252.920	172.692	17.096	1.00169.12	A16S
ATOM	24052	N3	C	A1141	252.116	171.624	15.269	1.00169.12	A16S
ATOM	24053	C4	C	A1141	251.631	170.497	14.740	1.00169.12	A16S
ATOM	24054	N4	C	A1141	251.306	170.503	13.444	1.00169.12	A16S
ATOM	24055	C5	C	A1141	251.461	169.313	15.513	1.00169.12	A16S
ATOM	24056	C2*	C	A1141	251.605	171.030	19.701	1.00185.16	A16S
ATOM	24057	O2*	C	A1141	252.137	171.878	20.697	1.00185.16	A16S
ATOM	24058	C3*	C	A1141	251.075	169.715	20.258	1.00185.16	A16S
ATOM	24059	O3*	C	A1141	250.503	169.882	21.544	1.00185.16	A16S
ATOM	24060	P	G	A1142	248.954	170.271	21.674	1.00134.90	A16S
ATOM	24061	O1P	G	A1142	248.608	170.190	23.117	1.00160.67	A16S
ATOM	24062	O2P	G	A1142	248.179	169.481	20.688	1.00160.67	A16S
ATOM	24063	O5*	G	A1142	248.900	171.796	21.226	1.00134.90	A16S
ATOM	24064	C5*	G	A1142	249.282	172.830	22.141	1.00134.90	A16S
ATOM	24065	C4*	G	A1142	249.163	174.180	21.486	1.00134.90	A16S
ATOM	24066	O4*	G	A1142	250.050	174.233	20.343	1.00134.90	A16S
ATOM	24067	C1*	G	A1142	249.495	175.078	19.355	1.00134.90	A16S
ATOM	24068	N9	G	A1142	249.429	174.349	18.091	1.00160.67	A16S
ATOM	24069	C4	G	A1142	249.083	174.878	16.868	1.00160.67	A16S
ATOM	24070	N3	G	A1142	248.754	176.166	16.624	1.00160.67	A16S
ATOM	24071	C2	G	A1142	248.449	176.367	15.353	1.00160.67	A16S
ATOM	24072	N2	G	A1142	248.090	177.587	14.934	1.00160.67	A16S
ATOM	24073	N1	G	A1142	248.468	175.387	14.397	1.00160.67	A16S
ATOM	24074	C6	G	A1142	248.802	174.058	14.622	1.00160.67	A16S
ATOM	24075	O6	G	A1142	248.779	173.254	13.683	1.00160.67	A16S
ATOM	24076	C5	G	A1142	249.136	173.824	15.986	1.00160.67	A16S
ATOM	24077	N7	G	A1142	249.523	172.657	16.635	1.00160.67	A16S
ATOM	24078	C8	G	A1142	249.686	173.016	17.878	1.00160.67	A16S
ATOM	24079	C2*	G	A1142	248.138	175.580	19.862	1.00134.90	A16S
ATOM	24080	O2*	G	A1142	248.287	176.892	20.367	1.00134.90	A16S
ATOM	24081	C3*	G	A1142	247.793	174.556	20.939	1.00134.90	A16S
ATOM	24082	O3*	G	A1142	246.978	175.126	21.967	1.00134.90	A16S
ATOM	24083	P	G	A1143	245.384	174.894	21.955	1.00118.28	A16S
ATOM	24084	O1P	G	A1143	244.812	175.705	23.058	1.00194.26	A16S
ATOM	24085	O2P	G	A1143	245.118	173.433	21.907	1.00194.26	A16S
ATOM	24086	O5*	G	A1143	244.912	175.539	20.579	1.00118.28	A16S
ATOM	24087	C5*	G	A1143	245.243	176.900	20.249	1.00118.28	A16S
ATOM	24088	C4*	G	A1143	245.155	177.114	18.755	1.00118.28	A16S
ATOM	24089	O4*	G	A1143	246.151	176.298	18.078	1.00118.28	A16S
ATOM	24090	C1*	G	A1143	245.609	175.766	16.876	1.00118.28	A16S
ATOM	24091	N9	G	A1143	245.554	174.308	17.017	1.00194.26	A16S
ATOM	24092	C4	G	A1143	245.373	173.374	16.012	1.00194.26	A16S
ATOM	24093	N3	G	A1143	245.225	173.636	14.694	1.00194.26	A16S
ATOM	24094	C2	G	A1143	245.070	172.527	13.985	1.00194.26	A16S



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ATOM	24095	N2	G	A1143	244.915	172.598	12.657	1.00194.26	A16S
ATOM	24096	N1	G	A1143	245.058	171.266	14.526	1.00194.26	A16S
ATOM	24097	C6	G	A1143	245.205	170.972	15.877	1.00194.26	A16S
ATOM	24098	O6	G	A1143	245.174	169.796	16.260	1.00194.26	A16S
ATOM	24099	C5	G	A1143	245.377	172.148	16.650	1.00194.26	A16S
ATOM	24100	N7	G	A1143	245.560	172.301	18.017	1.00194.26	A16S
ATOM	24101	C8	G	A1143	245.662	173.592	18.189	1.00194.26	A16S
ATOM	24102	C2*	G	A1143	244.227	176.396	16.684	1.00118.28	A16S
ATOM	24103	O2*	G	A1143	244.333	177.543	15.854	1.00118.28	A16S
ATOM	24104	C3*	G	A1143	243.834	176.706	18.127	1.00118.28	A16S
ATOM	24105	O3*	G	A1143	242.854	177.724	18.257	1.00118.28	A16S
ATOM	24106	P	G	A1144	241.300	177.324	18.304	1.00167.26	A16S
ATOM	24107	O1P	G	A1144	240.533	178.536	18.695	1.00175.69	A16S
ATOM	24108	O2P	G	A1144	241.140	176.065	19.087	1.00175.69	A16S
ATOM	24109	O5*	G	A1144	240.974	177.011	16.782	1.00167.26	A16S
ATOM	24110	C5*	G	A1144	241.095	178.035	15.776	1.00167.26	A16S
ATOM	24111	C4*	G	A1144	240.611	177.506	14.453	1.00167.26	A16S
ATOM	24112	O4*	G	A1144	241.598	176.594	13.899	1.00167.26	A16S
ATOM	24113	C1*	G	A1144	240.948	175.464	13.335	1.00167.26	A16S
ATOM	24114	N9	G	A1144	241.252	174.312	14.180	1.00175.69	A16S
ATOM	24115	C4	G	A1144	241.429	173.017	13.769	1.00175.69	A16S
ATOM	24116	N3	G	A1144	241.363	172.574	12.498	1.00175.69	A16S
ATOM	24117	C2	G	A1144	241.567	171.272	12.420	1.00175.69	A16S
ATOM	24118	N2	G	A1144	241.523	170.664	11.233	1.00175.69	A16S
ATOM	24119	N1	G	A1144	241.824	170.469	13.504	1.00175.69	A16S
ATOM	24120	C6	G	A1144	241.898	170.904	14.823	1.00175.69	A16S
ATOM	24121	O6	G	A1144	242.136	170.096	15.729	1.00175.69	A16S
ATOM	24122	C5	G	A1144	241.673	172.297	14.922	1.00175.69	A16S
ATOM	24123	N7	G	A1144	241.650	173.125	16.034	1.00175.69	A16S
ATOM	24124	C8	G	A1144	241.401	174.307	15.548	1.00175.69	A16S
ATOM	24125	C2*	G	A1144	239.449	175.747	13.360	1.00167.26	A16S
ATOM	24126	O2*	G	A1144	239.036	176.358	12.151	1.00167.26	A16S
ATOM	24127	C3*	G	A1144	239.352	176.668	14.568	1.00167.26	A16S
ATOM	24128	O3*	G	A1144	238.160	177.427	14.644	1.00167.26	A16S
ATOM	24129	P	C	A1145	236.787	176.677	14.989	1.00139.64	A16S
ATOM	24130	O1P	C	A1145	235.697	177.684	15.103	1.00158.63	A16S
ATOM	24131	O2P	C	A1145	237.017	175.710	16.100	1.00158.63	A16S
ATOM	24132	O5*	C	A1145	236.556	175.840	13.663	1.00139.64	A16S
ATOM	24133	C5*	C	A1145	235.354	175.133	13.462	1.00139.64	A16S
ATOM	24134	C4*	C	A1145	235.474	174.258	12.252	1.00139.64	A16S
ATOM	24135	O4*	C	A1145	236.605	173.367	12.384	1.00139.64	A16S
ATOM	24136	C1*	C	A1145	236.195	172.037	12.156	1.00139.64	A16S
ATOM	24137	N1	C	A1145	236.255	171.368	13.468	1.00158.63	A16S
ATOM	24138	C6	C	A1145	235.121	171.006	14.142	1.00158.63	A16S
ATOM	24139	C2	C	A1145	237.517	171.136	14.039	1.00158.63	A16S
ATOM	24140	O2	C	A1145	238.535	171.458	13.405	1.00158.63	A16S
ATOM	24141	N3	C	A1145	237.594	170.577	15.269	1.00158.63	A16S
ATOM	24142	C4	C	A1145	236.478	170.253	15.926	1.00158.63	A16S
ATOM	24143	N4	C	A1145	236.600	169.730	17.144	1.00158.63	A16S
ATOM	24144	C5	C	A1145	235.187	170.458	15.363	1.00158.63	A16S
ATOM	24145	C2*	C	A1145	234.823	172.108	11.476	1.00139.64	A16S
ATOM	24146	O2*	C	A1145	235.048	172.169	10.088	1.00139.64	A16S
ATOM	24147	C3*	C	A1145	234.255	173.387	12.090	1.00139.64	A16S
ATOM	24148	O3*	C	A1145	233.316	174.203	11.392	1.00139.64	A16S
ATOM	24149	P	A	A1146	232.460	173.619	10.180	1.00136.09	A16S
ATOM	24150	O1P	A	A1146	231.476	174.696	9.869	1.00112.36	A16S
ATOM	24151	O2P	A	A1146	231.973	172.249	10.538	1.00112.36	A16S
ATOM	24152	O5*	A	A1146	233.520	173.537	8.988	1.00136.09	A16S
ATOM	24153	C5*	A	A1146	233.818	174.692	8.183	1.00136.09	A16S
ATOM	24154	C4*	A	A1146	234.749	174.332	7.042	1.00136.09	A16S
ATOM	24155	O4*	A	A1146	236.135	174.414	7.450	1.00136.09	A16S
ATOM	24156	C1*	A	A1146	236.913	173.542	6.647	1.00136.09	A16S
ATOM	24157	N9	A	A1146	237.643	172.618	7.510	1.00112.36	A16S
ATOM	24158	C4	A	A1146	238.617	171.744	7.088	1.00112.36	A16S
ATOM	24159	N3	A	A1146	239.070	171.574	5.833	1.00112.36	A16S
ATOM	24160	C2	A	A1146	240.024	170.647	5.802	1.00112.36	A16S
ATOM	24161	N1	A	A1146	240.537	169.920	6.806	1.00112.36	A16S
ATOM	24162	C6	A	A1146	240.053	170.106	8.052	1.00112.36	A16S
ATOM	24163	N6	A	A1146	240.553	169.366	9.046	1.00112.36	A16S
ATOM	24164	C5	A	A1146	239.039	171.072	8.222	1.00112.36	A16S
ATOM	24165	N7	A	A1146	238.338	171.511	9.339	1.00112.36	A16S
ATOM	24166	C8	A	A1146	237.526	172.424	8.863	1.00112.36	A16S
ATOM	24167	C2*	A	A1146	235.971	172.801	5.704	1.00136.09	A16S
ATOM	24168	O2*	A	A1146	236.010	173.415	4.430	1.00136.09	A16S
ATOM	24169	C3*	A	A1146	234.633	172.951	6.419	1.00136.09	A16S
ATOM	24170	O3*	A	A1146	233.553	172.832	5.515	1.00136.09	A16S
ATOM	24171	P	C	A1147	232.863	171.398	5.298	1.00136.65	A16S



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ATOM	24172	O1P	C	A1147	232.446	170.874	6.634	1.00105.15	A16S
ATOM	24173	O2P	C	A1147	231.852	171.568	4.220	1.00105.15	A16S
ATOM	24174	O5*	C	A1147	234.047	170.474	4.758	1.00136.65	A16S
ATOM	24175	C5*	C	A1147	234.595	170.660	3.434	1.00136.65	A16S
ATOM	24176	C4*	C	A1147	235.650	169.612	3.144	1.00136.65	A16S
ATOM	24177	O4*	C	A1147	236.793	169.816	4.016	1.00136.65	A16S
ATOM	24178	C1*	C	A1147	237.354	168.562	4.374	1.00136.65	A16S
ATOM	24179	N1	C	A1147	237.305	168.423	5.848	1.00105.15	A16S
ATOM	24180	C6	C	A1147	236.418	169.153	6.594	1.00105.15	A16S
ATOM	24181	C2	C	A1147	238.191	167.521	6.485	1.00105.15	A16S
ATOM	24182	O2	C	A1147	238.976	166.850	5.794	1.00105.15	A16S
ATOM	24183	N3	C	A1147	238.160	167.405	7.835	1.00105.15	A16S
ATOM	24184	C4	C	A1147	237.291	168.127	8.547	1.00105.15	A16S
ATOM	24185	N4	C	A1147	237.293	167.975	9.872	1.00105.15	A16S
ATOM	24186	C5	C	A1147	236.376	169.038	7.930	1.00105.15	A16S
ATOM	24187	C2*	C	A1147	236.573	167.472	3.636	1.00136.65	A16S
ATOM	24188	O2*	C	A1147	237.258	167.121	2.447	1.00136.65	A16S
ATOM	24189	C3*	C	A1147	235.238	168.166	3.380	1.00136.65	A16S
ATOM	24190	O3*	C	A1147	234.537	167.611	2.268	1.00136.65	A16S
ATOM	24191	P	U	A1148	233.560	166.351	2.491	1.00 96.35	A16S
ATOM	24192	O1P	U	A1148	232.514	166.727	3.477	1.00115.10	A16S
ATOM	24193	O2P	U	A1148	233.157	165.841	1.153	1.00115.10	A16S
ATOM	24194	O5*	U	A1148	234.504	165.271	3.182	1.00 96.35	A16S
ATOM	24195	C5*	U	A1148	235.477	164.555	2.410	1.00 96.35	A16S
ATOM	24196	C4*	U	A1148	236.029	163.402	3.205	1.00 96.35	A16S
ATOM	24197	O4*	U	A1148	236.932	163.883	4.231	1.00-96.35	A16S
ATOM	24198	C1*	U	A1148	236.940	162.965	5.309	1.00 96.35	A16S
ATOM	24199	N1	U	A1148	236.677	163.671	6.571	1.00115.10	A16S
ATOM	24200	C6	U	A1148	235.941	164.830	6.618	1.00115.10	A16S
ATOM	24201	C2	U	A1148	237.188	163.103	7.729	1.00115.10	A16S
ATOM	24202	O2	U	A1148	237.856	162.082	7.732	1.00115.10	A16S
ATOM	24203	N3	U	A1148	236.886	163.771	8.886	1.00115.10	A16S
ATOM	24204	C4	U	A1148	236.146	164.923	9.008	1.00115.10	A16S
ATOM	24205	O4	U	A1148	235.946	165.395	10.131	1.00115.10	A16S
ATOM	24206	C5	U	A1148	235.662	165.457	7.765	1.00115.10	A16S
ATOM	24207	C2*	U	A1148	235.884	161.894	5.030	1.00 96.35	A16S
ATOM	24208	O2*	U	A1148	236.490	160.701	4.570	1.00 96.35	A16S
ATOM	24209	C3*	U	A1148	235.021	162.563	3.972	1.00 96.35	A16S
ATOM	24210	O3*	U	A1148	234.380	161.591	3.168	1.00 96.35	A16S
ATOM	24211	P	C	A1149	232.915	161.077	3.572	1.00 80.72	A16S
ATOM	24212	O1P	C	A1149	232.565	159.971	2.642	1.00 99.79	A16S
ATOM	24213	O2P	C	A1149	232.026	162.262	3.670	1.00 99.79	A16S
ATOM	24214	O5*	C	A1149	233.090	160.464	5.032	1.00 80.72	A16S
ATOM	24215	C5*	C	A1149	233.975	159.360	5.266	1.00 80.72	A16S
ATOM	24216	C4*	C	A1149	234.236	159.220	6.740	1.00 80.72	A16S
ATOM	24217	O4*	C	A1149	234.775	160.466	7.242	1.00 80.72	A16S
ATOM	24218	C1*	C	A1149	234.268	160.725	8.540	1.00 80.72	A16S
ATOM	24219	N1	C	A1149	233.539	162.011	8.515	1.00 99.79	A16S
ATOM	24220	C6	C	A1149	233.178	162.592	7.328	1.00 99.79	A16S
ATOM	24221	C2	C	A1149	233.211	162.630	9.730	1.00 99.79	A16S
ATOM	24222	O2	C	A1149	233.553	162.093	10.793	1.00 99.79	A16S
ATOM	24223	N3	C	A1149	232.525	163.796	9.712	1.00 99.79	A16S
ATOM	24224	C4	C	A1149	232.168	164.345	8.549	1.00 99.79	A16S
ATOM	24225	N4	C	A1149	231.475	165.486	8.582	1.00 99.79	A16S
ATOM	24226	C5	C	A1149	232.499	163.746	7.300	1.00 99.79	A16S
ATOM	24227	C2*	C	A1149	233.390	159.540	8.943	1.00 80.72	A16S
ATOM	24228	O2*	C	A1149	234.136	158.633	9.729	1.00 80.72	A16S
ATOM	24229	C3*	C	A1149	233.002	158.964	7.587	1.00 80.72	A16S
ATOM	24230	O3*	C	A1149	232.748	157.570	7.671	1.00 80.72	A16S
ATOM	24231	P	U	A1150	231.307	157.050	8.134	1.00 94.08	A16S
ATOM	24232	O1P	U	A1150	231.324	155.571	8.022	1.00 96.15	A16S
ATOM	24233	O2P	U	A1150	230.280	157.838	7.402	1.00 96.15	A16S
ATOM	24234	O5*	U	A1150	231.231	157.424	9.675	1.00 94.08	A16S
ATOM	24235	C5*	U	A1150	232.011	156.722	10.655	1.00 94.08	A16S
ATOM	24236	C4*	U	A1150	231.743	157.312	12.012	1.00 94.08	A16S
ATOM	24237	O4*	U	A1150	232.083	158.720	11.959	1.00 94.08	A16S
ATOM	24238	C1*	U	A1150	231.126	159.473	12.680	1.00 94.08	A16S
ATOM	24239	N1	U	A1150	230.558	160.487	11.779	1.00 96.15	A16S
ATOM	24240	C6	U	A1150	230.677	160.386	10.419	1.00 96.15	A16S
ATOM	24241	C2	U	A1150	229.912	161.564	12.351	1.00 96.15	A16S
ATOM	24242	O2	U	A1150	229.752	161.676	13.550	1.00 96.15	A16S
ATOM	24243	N3	U	A1150	229.453	162.507	11.465	1.00 96.15	A16S
ATOM	24244	C4	U	A1150	229.559	162.479	10.093	1.00 96.15	A16S
ATOM	24245	O4	U	A1150	229.135	163.432	9.428	1.00 96.15	A16S
ATOM	24246	C5	U	A1150	230.214	161.317	9.578	1.00 96.15	A16S
ATOM	24247	C2*	U	A1150	230.113	158.504	13.297	1.00 94.08	A16S
ATOM	24248	O2*	U	A1150	230.446	158.260	14.651	1.00 94.08	A16S



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ATOM	24249	C3* U	A1150	230.275	157.277	12.408	1.00	94.08	A16S
ATOM	24250	O3* U	A1150	229.970	156.070	13.091	1.00	94.08	A16S
ATOM	24251	P A	A1151	228.593	155.311	12.780	1.00	86.99	A16S
ATOM	24252	O1P A	A1151	228.576	154.044	13.575	1.00	101.61	A16S
ATOM	24253	O2P A	A1151	228.440	155.259	11.308	1.00	101.61	A16S
ATOM	24254	O5* A	A1151	227.469	156.293	13.341	1.00	86.99	A16S
ATOM	24255	C5* A	A1151	227.321	156.505	14.764	1.00	86.99	A16S
ATOM	24256	C4* A	A1151	226.154	157.428	15.059	1.00	86.99	A16S
ATOM	24257	O4* A	A1151	226.429	158.771	14.568	1.00	86.99	A16S
ATOM	24258	C1* A	A1151	225.307	159.247	13.863	1.00	86.99	A16S
ATOM	24259	N9 A	A1151	225.749	160.168	12.819	1.00	101.61	A16S
ATOM	24260	C4 A	A1151	225.535	161.527	12.834	1.00	101.61	A16S
ATOM	24261	N3 A	A1151	224.923	162.247	13.795	1.00	101.61	A16S
ATOM	24262	C2 A	A1151	224.877	163.535	13.459	1.00	101.61	A16S
ATOM	24263	N1 A	A1151	225.334	164.142	12.355	1.00	101.61	A16S
ATOM	24264	C6 A	A1151	225.945	163.393	11.411	1.00	101.61	A16S
ATOM	24265	N6 A	A1151	226.397	164.001	10.314	1.00	101.61	A16S
ATOM	24266	C5 A	A1151	226.063	162.006	11.647	1.00	101.61	A16S
ATOM	24267	N7 A	A1151	226.621	160.971	10.905	1.00	101.61	A16S
ATOM	24268	C8 A	A1151	226.415	159.905	11.645	1.00	101.61	A16S
ATOM	24269	C2* A	A1151	224.586	158.008	13.348	1.00	86.99	A16S
ATOM	24270	O2* A	A1151	223.240	158.324	13.068	1.00	86.99	A16S
ATOM	24271	C3* A	A1151	224.784	157.039	14.513	1.00	86.99	A16S
ATOM	24272	O3* A	A1151	223.818	157.290	15.522	1.00	86.99	A16S
ATOM	24273	P A	A1152	222.320	156.748	15.348	1.00	84.58	A16S
ATOM	24274	O1P A	A1152	221.891	156.290	16.692	1.00	114.82	A16S
ATOM	24275	O2P A	A1152	222.287	155.798	14.212	1.00	114.82	A16S
ATOM	24276	O5* A	A1152	221.482	158.046	14.934	1.00	84.58	A16S
ATOM	24277	C5* A	A1152	220.584	158.671	15.868	1.00	84.58	A16S
ATOM	24278	C4* A	A1152	220.115	160.022	15.367	1.00	84.58	A16S
ATOM	24279	O4* A	A1152	221.256	160.781	14.895	1.00	84.58	A16S
ATOM	24280	C1* A	A1152	220.787	161.850	14.097	1.00	84.58	A16S
ATOM	24281	N9 A	A1152	221.620	162.012	12.914	1.00	114.82	A16S
ATOM	24282	C4 A	A1152	221.726	163.188	12.215	1.00	114.82	A16S
ATOM	24283	N3 A	A1152	221.116	164.353	12.489	1.00	114.82	A16S
ATOM	24284	C2 A	A1152	221.454	165.279	11.597	1.00	114.82	A16S
ATOM	24285	N1 A	A1152	222.271	165.179	10.543	1.00	114.82	A16S
ATOM	24286	C6 A	A1152	222.868	163.994	10.300	1.00	114.82	A16S
ATOM	24287	N6 A	A1152	223.688	163.897	9.256	1.00	114.82	A16S
ATOM	24288	C5 A	A1152	222.588	162.929	11.172	1.00	114.82	A16S
ATOM	24289	N7 A	A1152	223.016	161.610	11.208	1.00	114.82	A16S
ATOM	24290	C8 A	A1152	222.415	161.112	12.261	1.00	114.82	A16S
ATOM	24291	C2* A	A1152	219.337	161.564	13.730	1.00	84.58	A16S
ATOM	24292	O2* A	A1152	218.548	162.469	14.465	1.00	84.58	A16S
ATOM	24293	C3* A	A1152	219.161	160.114	14.178	1.00	84.58	A16S
ATOM	24294	O3* A	A1152	217.796	159.911	14.536	1.00	84.58	A16S
ATOM	24295	P C	A1153	216.662	159.849	13.386	1.00	99.64	A16S
ATOM	24296	O1P C	A1153	215.371	159.590	14.073	1.00	119.46	A16S
ATOM	24297	O2P C	A1153	217.118	158.932	12.311	1.00	119.46	A16S
ATOM	24298	O5* C	A1153	216.601	161.323	12.776	1.00	99.64	A16S
ATOM	24299	C5* C	A1153	216.006	162.407	13.520	1.00	99.64	A16S
ATOM	24300	C4* C	A1153	216.161	163.714	12.775	1.00	99.64	A16S
ATOM	24301	O4* C	A1153	217.564	163.994	12.514	1.00	99.64	A16S
ATOM	24302	C1* C	A1153	217.690	164.700	11.285	1.00	99.64	A16S
ATOM	24303	N1 C	A1153	218.585	163.954	10.382	1.00	119.46	A16S
ATOM	24304	C6 C	A1153	218.749	162.601	10.507	1.00	119.46	A16S
ATOM	24305	C2 C	A1153	219.263	164.659	9.372	1.00	119.46	A16S
ATOM	24306	O2 C	A1153	219.107	165.888	9.283	1.00	119.46	A16S
ATOM	24307	N3 C	A1153	220.069	163.986	8.523	1.00	119.46	A16S
ATOM	24308	C4 C	A1153	220.215	162.665	8.649	1.00	119.46	A16S
ATOM	24309	N4 C	A1153	221.019	162.041	7.782	1.00	119.46	A16S
ATOM	24310	C5 C	A1153	219.543	161.924	9.670	1.00	119.46	A16S
ATOM	24311	C2* C	A1153	216.291	164.860	10.685	1.00	99.64	A16S
ATOM	24312	O2* C	A1153	215.798	166.167	10.908	1.00	99.64	A16S
ATOM	24313	C3* C	A1153	215.517	163.761	11.405	1.00	99.64	A16S
ATOM	24314	O3* C	A1153	214.140	164.047	11.495	1.00	99.64	A16S
ATOM	24315	P G	A1154	213.131	163.326	10.486	1.00	108.43	A16S
ATOM	24316	O1P G	A1154	211.757	163.583	10.999	1.00	113.95	A16S
ATOM	24317	O2P G	A1154	213.603	161.927	10.330	1.00	113.95	A16S
ATOM	24318	O5* G	A1154	213.351	164.103	9.105	1.00	108.43	A16S
ATOM	24319	C5* G	A1154	212.904	165.459	8.963	1.00	108.43	A16S
ATOM	24320	C4* G	A1154	213.709	166.206	7.923	1.00	108.43	A16S
ATOM	24321	O4* G	A1154	215.131	166.070	8.186	1.00	108.43	A16S
ATOM	24322	C1* G	A1154	215.849	166.256	6.977	1.00	108.43	A16S
ATOM	24323	N9 G	A1154	216.697	165.099	6.711	1.00	113.95	A16S
ATOM	24324	C4 G	A1154	217.623	165.025	5.701	1.00	113.95	A16S
ATOM	24325	N3 G	A1154	217.939	166.023	4.851	1.00	113.95	A16S



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ATOM	24326	C2	G	A1154	218.833	165.652	3.963	1.00113.95	A16S
ATOM	24327	N2	G	A1154	219.263	166.532	3.056	1.00113.95	A16S
ATOM	24328	N1	G	A1154	219.369	164.392	3.897	1.00113.95	A16S
ATOM	24329	C6	G	A1154	219.056	163.342	4.755	1.00113.95	A16S
ATOM	24330	O6	G	A1154	219.583	162.234	4.589	1.00113.95	A16S
ATOM	24331	C5	G	A1154	218.106	163.739	5.738	1.00113.95	A16S
ATOM	24332	N7	G	A1154	217.533	163.028	6.785	1.00113.95	A16S
ATOM	24333	C8	G	A1154	216.711	163.877	7.341	1.00113.95	A16S
ATOM	24334	C2*	G	A1154	214.831	166.414	5.847	1.00108.43	A16S
ATOM	24335	O2*	G	A1154	214.714	167.781	5.509	1.00108.43	A16S
ATOM	24336	C3*	G	A1154	213.572	165.809	6.462	1.00108.43	A16S
ATOM	24337	O3*	G	A1154	212.400	166.345	5.857	1.00108.43	A16S
ATOM	24338	P	G	A1155	211.832	165.692	4.494	1.00 89.89	A16S
ATOM	24339	O1P	G	A1155	210.430	166.161	4.313	1.00105.95	A16S
ATOM	24340	O2P	G	A1155	212.123	164.232	4.510	1.00105.95	A16S
ATOM	24341	O5*	G	A1155	212.683	166.380	3.342	1.00 89.89	A16S
ATOM	24342	C5*	G	A1155	212.608	167.788	3.149	1.00 89.89	A16S
ATOM	24343	C4*	G	A1155	213.654	168.227	2.172	1.00 89.89	A16S
ATOM	24344	O4*	G	A1155	214.957	167.804	2.642	1.00 89.89	A16S
ATOM	24345	C1*	G	A1155	215.773	167.472	1.534	1.00 89.89	A16S
ATOM	24346	N9	G	A1155	216.271	166.110	1.707	1.00105.95	A16S
ATOM	24347	C4	G	A1155	217.176	165.469	0.896	1.00105.95	A16S
ATOM	24348	N3	G	A1155	217.730	165.974	-0.226	1.00105.95	A16S
ATOM	24349	C2	G	A1155	218.573	165.127	-0.784	1.00105.95	A16S
ATOM	24350	N2	G	A1155	219.196	165.465	-1.918	1.00105.95	A16S
ATOM	24351	N1	G	A1155	218.864	163.885	-0.272	1.00105.95	A16S
ATOM	24352	C6	G	A1155	218.313	163.350	0.889	1.00105.95	A16S
ATOM	24353	O6	G	A1155	218.662	162.228	1.280	1.00105.95	A16S
ATOM	24354	C5	G	A1155	217.388	164.241	1.483	1.00105.95	A16S
ATOM	24355	N7	G	A1155	216.610	164.099	2.624	1.00105.95	A16S
ATOM	24356	C8	G	A1155	215.960	165.227	2.713	1.00105.95	A16S
ATOM	24357	C2*	G	A1155	214.951	167.680	0.261	1.00 89.89	A16S
ATOM	24358	O2*	G	A1155	215.242	168.946	-0.298	1.00 89.89	A16S
ATOM	24359	C3*	G	A1155	213.531	167.608	0.797	1.00 89.89	A16S
ATOM	24360	O3*	G	A1155	212.629	168.342	-0.005	1.00 89.89	A16S
ATOM	24361	P	G	A1156	211.598	167.550	-0.940	1.00109.31	A16S
ATOM	24362	O1P	G	A1156	210.778	168.559	-1.673	1.00 84.98	A16S
ATOM	24363	O2P	G	A1156	210.924	166.528	-0.077	1.00 84.98	A16S
ATOM	24364	O5*	G	A1156	212.541	166.805	-1.994	1.00109.31	A16S
ATOM	24365	C5*	G	A1156	213.293	167.555	-2.982	1.00109.31	A16S
ATOM	24366	C4*	G	A1156	214.129	166.628	-3.838	1.00109.31	A16S
ATOM	24367	O4*	G	A1156	215.254	166.114	-3.081	1.00109.31	A16S
ATOM	24368	C1*	G	A1156	215.511	164.773	-3.455	1.00109.31	A16S
ATOM	24369	N9	G	A1156	215.308	163.935	-2.277	1.00 84.98	A16S
ATOM	24370	C4	G	A1156	216.037	162.826	-1.908	1.00 84.98	A16S
ATOM	24371	N3	G	A1156	217.089	162.303	-2.578	1.00 84.98	A16S
ATOM	24372	C2	G	A1156	217.582	161.231	-1.970	1.00 84.98	A16S
ATOM	24373	N2	G	A1156	218.640	160.582	-2.497	1.00 84.98	A16S
ATOM	24374	N1	G	A1156	217.076	160.713	-0.800	1.00 84.98	A16S
ATOM	24375	C6	G	A1156	215.993	161.233	-0.096	1.00 84.98	A16S
ATOM	24376	O6	G	A1156	215.617	160.686	0.951	1.00 84.98	A16S
ATOM	24377	C5	G	A1156	215.460	162.384	-0.735	1.00 84.98	A16S
ATOM	24378	N7	G	A1156	214.396	163.196	-0.373	1.00 84.98	A16S
ATOM	24379	C8	G	A1156	214.342	164.098	-1.313	1.00 84.98	A16S
ATOM	24380	C2*	G	A1156	214.551	164.422	-4.593	1.00109.31	A16S
ATOM	24381	O2*	G	A1156	215.183	164.664	-5.832	1.00109.31	A16S
ATOM	24382	C3*	G	A1156	213.410	165.394	-4.342	1.00109.31	A16S
ATOM	24383	O3*	G	A1156	212.653	165.674	-5.503	1.00109.31	A16S
ATOM	24384	P	A	A1157	211.079	165.375	-5.496	1.00113.49	A16S
ATOM	24385	O1P	A	A1157	210.393	166.647	-5.841	1.00105.61	A16S
ATOM	24386	O2P	A	A1157	210.760	164.677	-4.218	1.00105.61	A16S
ATOM	24387	O5*	A	A1157	210.860	164.338	-6.686	1.00113.49	A16S
ATOM	24388	C5*	A	A1157	209.662	163.528	-6.771	1.00113.49	A16S
ATOM	24389	C4*	A	A1157	210.024	162.114	-7.163	1.00113.49	A16S
ATOM	24390	O4*	A	A1157	210.809	162.166	-8.381	1.00113.49	A16S
ATOM	24391	C1*	A	A1157	212.060	161.553	-8.170	1.00113.49	A16S
ATOM	24392	N9	A	A1157	213.068	162.266	-8.953	1.00105.61	A16S
ATOM	24393	C4	A	A1157	214.214	161.717	-9.470	1.00105.61	A16S
ATOM	24394	N3	A	A1157	214.629	160.443	-9.360	1.00105.61	A16S
ATOM	24395	C2	A	A1157	215.784	160.273	-9.993	1.00105.61	A16S
ATOM	24396	N1	A	A1157	216.518	161.166	-10.672	1.00105.61	A16S
ATOM	24397	C6	A	A1157	216.069	162.438	-10.759	1.00105.61	A16S
ATOM	24398	N6	A	A1157	216.802	163.335	-11.425	1.00105.61	A16S
ATOM	24399	C5	A	A1157	214.856	162.743	-10.134	1.00105.61	A16S
ATOM	24400	N7	A	A1157	214.130	163.919	-10.040	1.00105.61	A16S
ATOM	24401	C8	A	A1157	213.083	163.584	-9.330	1.00105.61	A16S
ATOM	24402	C2*	A	A1157	212.290	161.570	-6.660	1.00113.49	A16S



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ATOM	24403	O2*	A	A1157	213.183	160.545	-6.275	1.00113.49	A16S
ATOM	24404	C3*	A	A1157	210.872	161.356	-6.145	1.00113.49	A16S
ATOM	24405	O3*	A	A1157	210.610	159.960	-6.260	1.00113.49	A16S
ATOM	24406	P	C	A1158	209.195	159.360	-5.808	1.00102.19	A16S
ATOM	24407	O1P	C	A1158	208.885	159.908	-4.463	1.00 88.58	A16S
ATOM	24408	O2P	C	A1158	209.242	157.881	-6.010	1.00 88.58	A16S
ATOM	24409	O5*	C	A1158	208.163	159.970	-6.856	1.00102.19	A16S
ATOM	24410	C5*	C	A1158	206.755	159.935	-6.586	1.00102.19	A16S
ATOM	24411	C4*	C	A1158	205.995	160.681	-7.648	1.00102.19	A16S
ATOM	24412	O4*	C	A1158	206.555	162.003	-7.788	1.00102.19	A16S
ATOM	24413	C1*	C	A1158	206.286	162.480	-9.089	1.00102.19	A16S
ATOM	24414	N1	C	A1158	207.472	163.202	-9.589	1.00 88.58	A16S
ATOM	24415	C6	C	A1158	207.454	164.564	-9.665	1.00 88.58	A16S
ATOM	24416	C2	C	A1158	208.608	162.492	-9.987	1.00 88.58	A16S
ATOM	24417	O2	C	A1158	208.624	161.265	-9.869	1.00 88.58	A16S
ATOM	24418	N3	C	A1158	209.668	163.166	-10.476	1.00 88.58	A16S
ATOM	24419	C4	C	A1158	209.635	164.495	-10.552	1.00 88.58	A16S
ATOM	24420	N4	C	A1158	210.698	165.120	-11.053	1.00 88.58	A16S
ATOM	24421	C5	C	A1158	208.507	165.244	-10.125	1.00 88.58	A16S
ATOM	24422	C2*	C	A1158	205.738	161.322	-9.935	1.00102.19	A16S
ATOM	24423	O2*	C	A1158	204.357	161.525	-10.163	1.00102.19	A16S
ATOM	24424	C3*	C	A1158	206.030	160.104	-9.054	1.00102.19	A16S
ATOM	24425	O3*	C	A1158	205.005	159.119	-9.171	1.00102.19	A16S
ATOM	24426	P	U	A1159	205.104	157.978	-10.298	1.00120.77	A16S
ATOM	24427	O1P	U	A1159	203.932	157.094	-10.098	1.00123.43	A16S
ATOM	24428	O2P	U	A1159	206.474	157.398	-10.286	1.00123.43	A16S
ATOM	24429	O5*	U	A1159	204.874	158.762	-11.663	1.00120.77	A16S
ATOM	24430	C5*	U	A1159	205.703	158.512	-12.802	1.00120.77	A16S
ATOM	24431	C4*	U	A1159	205.986	159.806	-13.516	1.00120.77	A16S
ATOM	24432	O4*	U	A1159	207.103	159.616	-14.422	1.00120.77	A16S
ATOM	24433	C1*	U	A1159	206.735	160.028	-15.720	1.00120.77	A16S
ATOM	24434	N1	U	A1159	207.397	159.140	-16.693	1.00123.43	A16S
ATOM	24435	C6	U	A1159	207.481	157.776	-16.496	1.00123.43	A16S
ATOM	24436	C2	U	A1159	207.954	159.725	-17.817	1.00123.43	A16S
ATOM	24437	O2	U	A1159	207.885	160.923	-18.042	1.00123.43	A16S
ATOM	24438	N3	U	A1159	208.594	158.855	-18.672	1.00123.43	A16S
ATOM	24439	C4	U	A1159	208.729	157.489	-18.527	1.00123.43	A16S
ATOM	24440	O4	U	A1159	209.391	156.851	-19.352	1.00123.43	A16S
ATOM	24441	C5	U	A1159	208.109	156.955	-17.352	1.00123.43	A16S
ATOM	24442	C2*	U	A1159	205.203	160.032	-15.767	1.00120.77	A16S
ATOM	24443	O2*	U	A1159	204.741	160.971	-16.719	1.00120.77	A16S
ATOM	24444	C3*	U	A1159	204.833	160.402	-14.325	1.00120.77	A16S
ATOM	24445	O3*	U	A1159	204.815	161.827	-14.167	1.00120.77	A16S
ATOM	24446	P	G	A1160	203.624	162.552	-13.343	1.00100.36	A16S
ATOM	24447	O1P	G	A1160	203.112	161.623	-12.299	1.00111.61	A16S
ATOM	24448	O2P	G	A1160	202.676	163.149	-14.327	1.00111.61	A16S
ATOM	24449	O5*	G	A1160	204.385	163.740	-12.599	1.00100.36	A16S
ATOM	24450	C5*	G	A1160	203.703	164.943	-12.208	1.00100.36	A16S
ATOM	24451	C4*	G	A1160	204.592	166.151	-12.435	1.00100.36	A16S
ATOM	24452	O4*	G	A1160	205.880	165.915	-11.803	1.00100.36	A16S
ATOM	24453	C1*	G	A1160	206.907	166.545	-12.557	1.00100.36	A16S
ATOM	24454	N9	G	A1160	207.840	165.534	-13.051	1.00111.61	A16S
ATOM	24455	C4	G	A1160	209.038	165.781	-13.682	1.00111.61	A16S
ATOM	24456	N3	G	A1160	209.562	166.996	-13.932	1.00111.61	A16S
ATOM	24457	C2	G	A1160	210.717	166.914	-14.561	1.00111.61	A16S
ATOM	24458	N2	G	A1160	211.384	168.029	-14.869	1.00111.61	A16S
ATOM	24459	N1	G	A1160	211.305	165.734	-14.931	1.00111.61	A16S
ATOM	24460	C6	G	A1160	210.780	164.470	-14.690	1.00111.61	A16S
ATOM	24461	O6	G	A1160	211.388	163.465	-15.080	1.00111.61	A16S
ATOM	24462	C5	G	A1160	209.548	164.544	-14.000	1.00111.61	A16S
ATOM	24463	N7	G	A1160	208.700	163.535	-13.566	1.00111.61	A16S
ATOM	24464	C8	G	A1160	207.702	164.167	-13.010	1.00111.61	A16S
ATOM	24465	C2*	G	A1160	206.250	167.264	-13.730	1.00100.36	A16S
ATOM	24466	O2*	G	A1160	206.070	168.625	-13.406	1.00100.36	A16S
ATOM	24467	C3*	G	A1160	204.950	166.484	-13.880	1.00100.36	A16S
ATOM	24468	O3*	G	A1160	203.963	167.260	-14.550	1.00100.36	A16S
ATOM	24469	P	C	A1161	204.048	167.439	-16.149	1.00109.46	A16S
ATOM	24470	O1P	C	A1161	203.035	168.452	-16.562	1.00137.72	A16S
ATOM	24471	O2P	C	A1161	204.019	166.089	-16.758	1.00137.72	A16S
ATOM	24472	O5*	C	A1161	205.502	168.049	-16.382	1.00109.46	A16S
ATOM	24473	C5*	C	A1161	205.784	169.436	-16.097	1.00109.46	A16S
ATOM	24474	C4*	C	A1161	206.981	169.894	-16.889	1.00109.46	A16S
ATOM	24475	O4*	C	A1161	208.168	169.211	-16.413	1.00109.46	A16S
ATOM	24476	C1*	C	A1161	209.021	168.914	-17.509	1.00109.46	A16S
ATOM	24477	N1	C	A1161	209.232	167.449	-17.574	1.00137.72	A16S
ATOM	24478	C6	C	A1161	208.336	166.581	-17.012	1.00137.72	A16S
ATOM	24479	C2	C	A1161	210.376	166.955	-18.230	1.00137.72	A16S



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ATOM	24480	O2	C	A1161	211.171	167.754	-18.746	1.00137.72	A16S
ATOM	24481	N3	C	A1161	210.579	165.621	-18.288	1.00137.72	A16S
ATOM	24482	C4	C	A1161	209.697	164.787	-17.737	1.00137.72	A16S
ATOM	24483	N4	C	A1161	209.939	163.478	-17.823	1.00137.72	A16S
ATOM	24484	C5	C	A1161	208.526	165.257	-17.071	1.00137.72	A16S
ATOM	24485	C2*	C	A1161	208.378	169.487	-18.774	1.00109.46	A16S
ATOM	24486	O2*	C	A1161	208.923	170.757	-19.050	1.00109.46	A16S
ATOM	24487	C3*	C	A1161	206.915	169.557	-18.367	1.00109.46	A16S
ATOM	24488	O3*	C	A1161	206.192	170.526	-19.098	1.00109.46	A16S
ATOM	24489	P	C	A1162	205.344	170.068	-20.380	1.00115.73	A16S
ATOM	24490	O1P	C	A1162	204.486	171.216	-20.780	1.00136.06	A16S
ATOM	24491	O2P	C	A1162	204.718	168.757	-20.067	1.00136.06	A16S
ATOM	24492	O5*	C	A1162	206.448	169.856	-21.508	1.00115.73	A16S
ATOM	24493	C5*	C	A1162	207.164	170.981	-22.042	1.00115.73	A16S
ATOM	24494	C4*	C	A1162	208.171	170.529	-23.070	1.00115.73	A16S
ATOM	24495	O4*	C	A1162	209.245	169.799	-22.426	1.00115.73	A16S
ATOM	24496	C1*	C	A1162	209.698	168.765	-23.286	1.00115.73	A16S
ATOM	24497	N1	C	A1162	209.515	167.470	-22.602	1.00136.06	A16S
ATOM	24498	C6	C	A1162	208.807	167.384	-21.434	1.00136.06	A16S
ATOM	24499	C2	C	A1162	210.076	166.319	-23.173	1.00136.06	A16S
ATOM	24500	O2	C	A1162	210.722	166.419	-24.231	1.00136.06	A16S
ATOM	24501	N3	C	A1162	209.900	165.128	-22.559	1.00136.06	A16S
ATOM	24502	C4	C	A1162	209.205	165.058	-21.422	1.00136.06	A16S
ATOM	24503	N4	C	A1162	209.061	163.861	-20.851	1.00136.06	A16S
ATOM	24504	C5	C	A1162	208.628	166.211	-20.819	1.00136.06	A16S
ATOM	24505	C2*	C	A1162	208.899	168.853	-24.589	1.00115.73	A16S
ATOM	24506	O2*	C	A1162	209.633	169.572	-25.559	1.00115.73	A16S
ATOM	24507	C3*	C	A1162	207.643	169.583	-24.132	1.00115.73	A16S
ATOM	24508	O3*	C	A1162	207.007	170.273	-25.192	1.00115.73	A16S
ATOM	24509	P	C	A1163	205.903	169.512	-26.069	1.00111.20	A16S
ATOM	24510	O1P	C	A1163	205.343	170.485	-27.041	1.00141.16	A16S
ATOM	24511	O2P	C	A1163	204.994	168.793	-25.139	1.00141.16	A16S
ATOM	24512	O5*	C	A1163	206.746	168.435	-26.877	1.00111.20	A16S
ATOM	24513	C5*	C	A1163	207.539	168.831	-28.000	1.00111.20	A16S
ATOM	24514	C4*	C	A1163	207.924	167.626	-28.809	1.00111.20	A16S
ATOM	24515	O4*	C	A1163	208.887	166.833	-28.070	1.00111.20	A16S
ATOM	24516	C1*	C	A1163	208.680	165.459	-28.346	1.00111.20	A16S
ATOM	24517	N1	C	A1163	208.397	164.766	-27.081	1.00141.16	A16S
ATOM	24518	C6	C	A1163	207.915	165.452	-26.000	1.00141.16	A16S
ATOM	24519	C2	C	A1163	208.622	163.383	-26.998	1.00141.16	A16S
ATOM	24520	O2	C	A1163	209.068	162.779	-27.989	1.00141.16	A16S
ATOM	24521	N3	C	A1163	208.349	162.742	-25.843	1.00141.16	A16S
ATOM	24522	C4	C	A1163	207.878	163.424	-24.796	1.00141.16	A16S
ATOM	24523	N4	C	A1163	207.630	162.749	-23.673	1.00141.16	A16S
ATOM	24524	C5	C	A1163	207.644	164.827	-24.852	1.00141.16	A16S
ATOM	24525	C2*	C	A1163	207.525	165.348	-29.343	1.00111.20	A16S
ATOM	24526	O2*	C	A1163	208.038	165.218	-30.655	1.00111.20	A16S
ATOM	24527	C3*	C	A1163	206.792	166.665	-29.121	1.00111.20	A16S
ATOM	24528	O3*	C	A1163	206.044	167.070	-30.262	1.00111.20	A16S
ATOM	24529	P	G	A1164	204.557	166.501	-30.478	1.00106.45	A16S
ATOM	24530	O1P	G	A1164	203.992	167.177	-31.676	1.00126.65	A16S
ATOM	24531	O2P	G	A1164	203.839	166.588	-29.180	1.00126.65	A16S
ATOM	24532	O5*	G	A1164	204.784	164.964	-30.839	1.00106.45	A16S
ATOM	24533	C5*	G	A1164	205.419	164.591	-32.075	1.00106.45	A16S
ATOM	24534	C4*	G	A1164	205.583	163.090	-32.166	1.00106.45	A16S
ATOM	24535	O4*	G	A1164	206.579	162.626	-31.215	1.00106.45	A16S
ATOM	24536	C1*	G	A1164	206.222	161.337	-30.737	1.00106.45	A16S
ATOM	24537	N9	G	A1164	205.916	161.448	-29.314	1.00126.65	A16S
ATOM	24538	C4	G	A1164	205.713	160.406	-28.444	1.00126.65	A16S
ATOM	24539	N3	G	A1164	205.820	159.095	-28.741	1.00126.65	A16S
ATOM	24540	C2	G	A1164	205.541	158.330	-27.704	1.00126.65	A16S
ATOM	24541	N2	G	A1164	205.621	157.001	-27.819	1.00126.65	A16S
ATOM	24542	N1	G	A1164	205.169	158.812	-26.475	1.00126.65	A16S
ATOM	24543	C6	G	A1164	205.048	160.158	-26.147	1.00126.65	A16S
ATOM	24544	O6	G	A1164	204.701	160.485	-25.006	1.00126.65	A16S
ATOM	24545	C5	G	A1164	205.362	160.992	-27.247	1.00126.65	A16S
ATOM	24546	N7	G	A1164	205.379	162.375	-27.352	1.00126.65	A16S
ATOM	24547	C8	G	A1164	205.721	162.600	-28.590	1.00126.65	A16S
ATOM	24548	C2*	G	A1164	204.961	160.908	-31.488	1.00106.45	A16S
ATOM	24549	O2*	G	A1164	205.296	160.130	-32.621	1.00106.45	A16S
ATOM	24550	C3*	G	A1164	204.358	162.258	-31.843	1.00106.45	A16S
ATOM	24551	O3*	G	A1164	203.429	162.192	-32.899	1.00106.45	A16S
ATOM	24552	P	C	A1165	201.863	162.201	-32.552	1.00114.81	A16S
ATOM	24553	O1P	C	A1165	201.132	162.463	-33.818	1.00105.77	A16S
ATOM	24554	O2P	C	A1165	201.654	163.097	-31.383	1.00105.77	A16S
ATOM	24555	O5*	C	A1165	201.577	160.703	-32.099	1.00114.81	A16S
ATOM	24556	C5*	C	A1165	201.815	159.624	-33.012	1.00114.81	A16S



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ATOM	24557	C4*	C	A1165	201.552	158.298	-32.350	1.00114.81	A16S
ATOM	24558	O4*	C	A1165	202.519	158.073	-31.296	1.00114.81	A16S
ATOM	24559	C1*	C	A1165	201.921	157.312	-30.264	1.00114.81	A16S
ATOM	24560	N1	C	A1165	201.949	158.094	-29.023	1.00105.77	A16S
ATOM	24561	C6	C	A1165	201.928	159.461	-29.049	1.00105.77	A16S
ATOM	24562	C2	C	A1165	201.980	157.411	-27.803	1.00105.77	A16S
ATOM	24563	O2	C	A1165	202.005	156.165	-27.805	1.00105.77	A16S
ATOM	24564	N3	C	A1165	201.978	158.117	-26.654	1.00105.77	A16S
ATOM	24565	C4	C	A1165	201.944	159.447	-26.689	1.00105.77	A16S
ATOM	24566	N4	C	A1165	201.929	160.095	-25.529	1.00105.77	A16S
ATOM	24567	C5	C	A1165	201.922	160.169	-27.917	1.00105.77	A16S
ATOM	24568	C2*	C	A1165	200.482	157.012	-30.676	1.00114.81	A16S
ATOM	24569	O2*	C	A1165	200.415	155.738	-31.281	1.00114.81	A16S
ATOM	24570	C3*	C	A1165	200.208	158.135	-31.664	1.00114.81	A16S
ATOM	24571	O3*	C	A1165	199.176	157.783	-32.565	1.00114.81	A16S
ATOM	24572	P	G	A1166	197.658	158.134	-32.188	1.00125.59	A16S
ATOM	24573	O1P	G	A1166	196.791	157.446	-33.176	1.00119.98	A16S
ATOM	24574	O2P	G	A1166	197.534	159.604	-32.000	1.00119.98	A16S
ATOM	24575	O5*	G	A1166	197.458	157.438	-30.772	1.00125.59	A16S
ATOM	24576	C5*	G	A1166	197.368	156.008	-30.660	1.00125.59	A16S
ATOM	24577	C4*	G	A1166	196.923	155.620	-29.273	1.00125.59	A16S
ATOM	24578	O4*	G	A1166	197.989	155.887	-28.320	1.00125.59	A16S
ATOM	24579	C1*	G	A1166	197.435	156.335	-27.091	1.00125.59	A16S
ATOM	24580	N9	G	A1166	197.834	157.726	-26.882	1.00119.98	A16S
ATOM	24581	C4	G	A1166	197.884	158.395	-25.681	1.00119.98	A16S
ATOM	24582	N3	G	A1166	197.651	157.861	-24.465	1.00119.98	A16S
ATOM	24583	C2	G	A1166	197.720	158.769	-23.506	1.00119.98	A16S
ATOM	24584	N2	G	A1166	197.526	158.408	-22.234	1.00119.98	A16S
ATOM	24585	N1	G	A1166	197.986	160.097	-23.721	1.00119.98	A16S
ATOM	24586	C6	G	A1166	198.223	160.672	-24.963	1.00119.98	A16S
ATOM	24587	O6	G	A1166	198.424	161.890	-25.048	1.00119.98	A16S
ATOM	24588	C5	G	A1166	198.174	159.704	-26.003	1.00119.98	A16S
ATOM	24589	N7	G	A1166	198.363	159.844	-27.370	1.00119.98	A16S
ATOM	24590	C8	G	A1166	198.166	158.646	-27.849	1.00119.98	A16S
ATOM	24591	C2*	G	A1166	195.913	156.255	-27.230	1.00125.59	A16S
ATOM	24592	O2*	G	A1166	195.443	155.009	-26.756	1.00125.59	A16S
ATOM	24593	C3*	G	A1166	195.741	156.404	-28.734	1.00125.59	A16S
ATOM	24594	O3*	G	A1166	194.485	155.955	-29.215	1.00125.59	A16S
ATOM	24595	P	A	A1167	193.347	157.040	-29.550	1.00109.95	A16S
ATOM	24596	O1P	A	A1167	192.095	156.314	-29.869	1.00107.69	A16S
ATOM	24597	O2P	A	A1167	193.913	157.993	-30.537	1.00107.69	A16S
ATOM	24598	O5*	A	A1167	193.137	157.800	-28.164	1.00109.95	A16S
ATOM	24599	C5*	A	A1167	192.123	158.818	-28.005	1.00109.95	A16S
ATOM	24600	C4*	A	A1167	191.405	158.642	-26.681	1.00109.95	A16S
ATOM	24601	O4*	A	A1167	190.593	157.445	-26.732	1.00109.95	A16S
ATOM	24602	C1*	A	A1167	190.658	156.765	-25.492	1.00109.95	A16S
ATOM	24603	N9	A	A1167	191.245	155.452	-25.747	1.00107.69	A16S
ATOM	24604	C4	A	A1167	191.295	154.378	-24.891	1.00107.69	A16S
ATOM	24605	N3	A	A1167	190.839	154.318	-23.629	1.00107.69	A16S
ATOM	24606	C2	A	A1167	191.044	153.108	-23.118	1.00107.69	A16S
ATOM	24607	N1	A	A1167	191.610	152.030	-23.683	1.00107.69	A16S
ATOM	24608	C6	A	A1167	192.057	152.126	-24.953	1.00107.69	A16S
ATOM	24609	N6	A	A1167	192.615	151.051	-25.522	1.00107.69	A16S
ATOM	24610	C5	A	A1167	191.905	153.358	-25.603	1.00107.69	A16S
ATOM	24611	N7	A	A1167	192.256	153.788	-26.873	1.00107.69	A16S
ATOM	24612	C8	A	A1167	191.847	155.031	-26.908	1.00107.69	A16S
ATOM	24613	C2*	A	A1167	191.469	157.626	-24.522	1.00109.95	A16S
ATOM	24614	O2*	A	A1167	190.602	158.417	-23.735	1.00109.95	A16S
ATOM	24615	C3*	A	A1167	192.314	158.455	-25.477	1.00109.95	A16S
ATOM	24616	O3*	A	A1167	192.679	159.703	-24.908	1.00109.95	A16S
ATOM	24617	P	A	A1168	194.129	159.871	-24.243	1.00 91.76	A16S
ATOM	24618	O1P	A	A1168	194.324	161.303	-23.891	1.00 96.48	A16S
ATOM	24619	O2P	A	A1168	195.087	159.211	-25.172	1.00 96.48	A16S
ATOM	24620	O5*	A	A1168	194.030	159.032	-22.886	1.00 91.76	A16S
ATOM	24621	C5*	A	A1168	193.086	159.398	-21.851	1.00 91.76	A16S
ATOM	24622	C4*	A	A1168	192.935	158.275	-20.850	1.00 91.76	A16S
ATOM	24623	O4*	A	A1168	192.352	157.119	-21.506	1.00 91.76	A16S
ATOM	24624	C1*	A	A1168	192.945	155.935	-21.002	1.00 91.76	A16S
ATOM	24625	N9	A	A1168	193.593	155.249	-22.121	1.00 96.48	A16S
ATOM	24626	C4	A	A1168	193.911	153.914	-22.218	1.00 96.48	A16S
ATOM	24627	N3	A	A1168	193.715	152.954	-21.300	1.00 96.48	A16S
ATOM	24628	C2	A	A1168	194.123	151.773	-21.757	1.00 96.48	A16S
ATOM	24629	N1	A	A1168	194.661	151.464	-22.937	1.00 96.48	A16S
ATOM	24630	C6	A	A1168	194.841	152.450	-23.838	1.00 96.48	A16S
ATOM	24631	N6	A	A1168	195.360	152.142	-25.026	1.00 96.48	A16S
ATOM	24632	C5	A	A1168	194.459	153.750	-23.472	1.00 96.48	A16S
ATOM	24633	N7	A	A1168	194.512	154.959	-24.148	1.00 96.48	A16S



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ATOM	24634	C8	A	A1168	193.993	155.813	-23.305	1.00	96.48	A16S
ATOM	24635	C2*	A	A1168	193.907	156.332	-19.878	1.00	91.76	A16S
ATOM	24636	O2*	A	A1168	193.249	156.222	-18.636	1.00	91.76	A16S
ATOM	24637	C3*	A	A1168	194.232	157.777	-20.230	1.00	91.76	A16S
ATOM	24638	O3*	A	A1168	194.560	158.538	-19.070	1.00	91.76	A16S
ATOM	24639	P	A	A1169	196.094	158.658	-18.590	1.00	83.43	A16S
ATOM	24640	O1P	A	A1169	196.114	159.524	-17.384	1.00	98.88	A16S
ATOM	24641	O2P	A	A1169	196.923	159.031	-19.762	1.00	98.88	A16S
ATOM	24642	O5*	A	A1169	196.485	157.181	-18.129	1.00	83.43	A16S
ATOM	24643	C5*	A	A1169	196.085	156.683	-16.832	1.00	83.43	A16S
ATOM	24644	C4*	A	A1169	196.293	155.189	-16.746	1.00	83.43	A16S
ATOM	24645	O4*	A	A1169	195.572	154.564	-17.835	1.00	83.43	A16S
ATOM	24646	C1*	A	A1169	196.323	153.482	-18.346	1.00	83.43	A16S
ATOM	24647	N9	A	A1169	196.697	153.813	-19.722	1.00	98.88	A16S
ATOM	24648	C4	A	A1169	197.098	152.932	-20.694	1.00	98.88	A16S
ATOM	24649	N3	A	A1169	197.227	151.602	-20.582	1.00	98.88	A16S
ATOM	24650	C2	A	A1169	197.630	151.074	-21.729	1.00	98.88	A16S
ATOM	24651	N1	A	A1169	197.903	151.678	-22.889	1.00	98.88	A16S
ATOM	24652	C6	A	A1169	197.769	153.017	-22.967	1.00	98.88	A16S
ATOM	24653	N6	A	A1169	198.045	153.620	-24.127	1.00	98.88	A16S
ATOM	24654	C5	A	A1169	197.342	153.696	-21.817	1.00	98.88	A16S
ATOM	24655	N7	A	A1169	197.098	155.036	-21.561	1.00	98.88	A16S
ATOM	24656	C8	A	A1169	196.725	155.052	-20.308	1.00	98.88	A16S
ATOM	24657	C2*	A	A1169	197.544	153.301	-17.444	1.00	83.43	A16S
ATOM	24658	O2*	A	A1169	197.251	152.359	-16.428	1.00	83.43	A16S
ATOM	24659	C3*	A	A1169	197.727	154.706	-16.894	1.00	83.43	A16S
ATOM	24660	O3*	A	A1169	198.396	154.667	-15.644	1.00	83.43	A16S
ATOM	24661	P	G	A1171	199.880	155.267	-15.512	1.00	97.43	A16S
ATOM	24662	O1P	G	A1171	200.411	154.756	-14.218	1.00	99.80	A16S
ATOM	24663	O2P	G	A1171	199.808	156.730	-15.753	1.00	99.80	A16S
ATOM	24664	O5*	G	A1171	200.707	154.621	-16.713	1.00	97.43	A16S
ATOM	24665	C5*	G	A1171	201.036	153.224	-16.711	1.00	97.43	A16S
ATOM	24666	C4*	G	A1171	201.243	152.726	-18.125	1.00	97.43	A16S
ATOM	24667	O4*	G	A1171	200.232	153.332	-18.973	1.00	97.43	A16S
ATOM	24668	C1*	G	A1171	200.753	153.521	-20.276	1.00	97.43	A16S
ATOM	24669	N9	G	A1171	200.686	154.938	-20.620	1.00	99.80	A16S
ATOM	24670	C4	G	A1171	200.818	155.460	-21.881	1.00	99.80	A16S
ATOM	24671	N3	G	A1171	201.051	154.754	-23.006	1.00	99.80	A16S
ATOM	24672	C2	G	A1171	201.108	155.529	-24.074	1.00	99.80	A16S
ATOM	24673	N2	G	A1171	201.341	154.986	-25.285	1.00	99.80	A16S
ATOM	24674	N1	G	A1171	200.944	156.893	-24.037	1.00	99.80	A16S
ATOM	24675	C6	G	A1171	200.704	157.640	-22.890	1.00	99.80	A16S
ATOM	24676	O6	G	A1171	200.563	158.862	-22.973	1.00	99.80	A16S
ATOM	24677	C5	G	A1171	200.650	156.819	-21.736	1.00	99.80	A16S
ATOM	24678	N7	G	A1171	200.438	157.149	-20.404	1.00	99.80	A16S
ATOM	24679	C8	G	A1171	200.470	156.004	-19.779	1.00	99.80	A16S
ATOM	24680	C2*	G	A1171	202.183	152.988	-20.295	1.00	97.43	A16S
ATOM	24681	O2*	G	A1171	202.165	151.665	-20.794	1.00	97.43	A16S
ATOM	24682	C3*	G	A1171	202.562	153.057	-18.819	1.00	97.43	A16S
ATOM	24683	O3*	G	A1171	203.592	152.111	-18.521	1.00	97.43	A16S
ATOM	24684	P	C	A1172	205.105	152.401	-18.996	1.00	101.02	A16S
ATOM	24685	O1P	C	A1172	205.958	151.276	-18.530	1.00	110.02	A16S
ATOM	24686	O2P	C	A1172	205.467	153.789	-18.629	1.00	110.02	A16S
ATOM	24687	O5*	C	A1172	205.027	152.344	-20.583	1.00	101.02	A16S
ATOM	24688	C5*	C	A1172	204.997	151.086	-21.279	1.00	101.02	A16S
ATOM	24689	C4*	C	A1172	205.478	151.269	-22.695	1.00	101.02	A16S
ATOM	24690	O4*	C	A1172	204.503	152.029	-23.454	1.00	101.02	A16S
ATOM	24691	C1*	C	A1172	205.174	152.878	-24.372	1.00	101.02	A16S
ATOM	24692	N1	C	A1172	204.841	154.278	-24.063	1.00	110.02	A16S
ATOM	24693	C6	C	A1172	204.363	154.645	-22.833	1.00	110.02	A16S
ATOM	24694	C2	C	A1172	205.033	155.244	-25.063	1.00	110.02	A16S
ATOM	24695	O2	C	A1172	205.474	154.884	-26.170	1.00	110.02	A16S
ATOM	24696	N3	C	A1172	204.740	156.539	-24.798	1.00	110.02	A16S
ATOM	24697	C4	C	A1172	204.277	156.886	-23.595	1.00	110.02	A16S
ATOM	24698	N4	C	A1172	204.005	158.174	-23.381	1.00	110.02	A16S
ATOM	24699	C5	C	A1172	204.072	155.925	-22.557	1.00	110.02	A16S
ATOM	24700	C2*	C	A1172	206.673	152.626	-24.242	1.00	101.02	A16S
ATOM	24701	O2*	C	A1172	207.076	151.717	-25.244	1.00	101.02	A16S
ATOM	24702	C3*	C	A1172	206.761	152.070	-22.827	1.00	101.02	A16S
ATOM	24703	O3*	C	A1172	207.912	151.278	-22.600	1.00	101.02	A16S
ATOM	24704	P	G	A1173	209.287	151.994	-22.183	1.00	93.50	A16S
ATOM	24705	O1P	G	A1173	210.249	150.909	-21.856	1.00	125.28	A16S
ATOM	24706	O2P	G	A1173	209.007	153.055	-21.171	1.00	125.28	A16S
ATOM	24707	O5*	G	A1173	209.736	152.708	-23.534	1.00	93.50	A16S
ATOM	24708	C5*	G	A1173	209.906	151.946	-24.743	1.00	93.50	A16S
ATOM	24709	C4*	G	A1173	210.215	152.859	-25.902	1.00	93.50	A16S
ATOM	24710	O4*	G	A1173	209.037	153.616	-26.273	1.00	93.50	A16S



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ATOM	24711	C1*	G	A1173	209.426	154.897	-26.750	1.00	93.50	A16S
ATOM	24712	N9	G	A1173	208.795	155.916	-25.918	1.00125.28		A16S
ATOM	24713	C4	G	A1173	208.621	157.245	-26.236	1.00125.28		A16S
ATOM	24714	N3	G	A1173	208.961	157.837	-27.401	1.00125.28		A16S
ATOM	24715	C2	G	A1173	208.695	159.133	-27.390	1.00125.28		A16S
ATOM	24716	N2	G	A1173	208.957	159.886	-28.471	1.00125.28		A16S
ATOM	24717	N1	G	A1173	208.150	159.790	-26.318	1.00125.28		A16S
ATOM	24718	C6	G	A1173	207.798	159.197	-25.112	1.00125.28		A16S
ATOM	24719	O6	G	A1173	207.321	159.882	-24.207	1.00125.28		A16S
ATOM	24720	C5	G	A1173	208.062	157.817	-25.115	1.00125.28		A16S
ATOM	24721	N7	G	A1173	207.854	156.866	-24.128	1.00125.28		A16S
ATOM	24722	C8	G	A1173	208.295	155.755	-24.649	1.00125.28		A16S
ATOM	24723	C2*	G	A1173	210.953	154.983	-26.669	1.00	93.50	A16S
ATOM	24724	O2*	G	A1173	211.544	154.729	-27.926	1.00	93.50	A16S
ATOM	24725	C3*	G	A1173	211.269	153.913	-25.635	1.00	93.50	A16S
ATOM	24726	O3*	G	A1173	212.582	153.410	-25.757	1.00	93.50	A16S
ATOM	24727	P	G	A1174	213.756	154.096	-24.917	1.00102.60		A16S
ATOM	24728	O1P	G	A1174	215.000	153.365	-25.250	1.00138.61		A16S
ATOM	24729	O2P	G	A1174	213.331	154.215	-23.499	1.00138.61		A16S
ATOM	24730	O5*	G	A1174	213.834	155.559	-25.538	1.00102.60		A16S
ATOM	24731	C5*	G	A1174	214.125	155.746	-26.937	1.00102.60		A16S
ATOM	24732	C4*	G	A1174	214.085	157.214	-27.303	1.00102.60		A16S
ATOM	24733	O4*	G	A1174	212.719	157.713	-27.262	1.00102.60		A16S
ATOM	24734	C1*	G	A1174	212.730	159.095	-26.916	1.00102.60		A16S
ATOM	24735	N9	G	A1174	211.961	159.304	-25.691	1.00138.61		A16S
ATOM	24736	C4	G	A1174	211.539	160.522	-25.214	1.00138.61		A16S
ATOM	24737	N3	G	A1174	211.720	161.714	-25.822	1.00138.61		A16S
ATOM	24738	C2	G	A1174	211.232	162.711	-25.108	1.00138.61		A16S
ATOM	24739	N2	G	A1174	211.321	163.971	-25.571	1.00138.61		A16S
ATOM	24740	N1	G	A1174	210.618	162.552	-23.889	1.00138.61		A16S
ATOM	24741	C6	G	A1174	210.420	161.336	-23.244	1.00138.61		A16S
ATOM	24742	O6	G	A1174	209.860	161.309	-22.142	1.00138.61		A16S
ATOM	24743	C5	G	A1174	210.934	160.253	-24.004	1.00138.61		A16S
ATOM	24744	N7	G	A1174	210.947	158.890	-23.738	1.00138.61		A16S
ATOM	24745	C8	G	A1174	211.558	158.366	-24.768	1.00138.61		A16S
ATOM	24746	C2*	G	A1174	214.183	159.510	-26.675	1.00102.60		A16S
ATOM	24747	O2*	G	A1174	214.720	160.204	-27.786	1.00102.60		A16S
ATOM	24748	C3*	G	A1174	214.848	158.168	-26.394	1.00102.60		A16S
ATOM	24749	O3*	G	A1174	216.245	158.218	-26.624	1.00102.60		A16S
ATOM	24750	P	G	A1175	217.210	158.735	-25.449	1.00118.49		A16S
ATOM	24751	O1P	G	A1175	218.603	158.587	-25.940	1.00141.85		A16S
ATOM	24752	O2P	G	A1175	216.806	158.071	-24.182	1.00141.85		A16S
ATOM	24753	O5*	G	A1175	216.869	160.289	-25.322	1.00118.49		A16S
ATOM	24754	C5*	G	A1175	217.228	161.213	-26.370	1.00118.49		A16S
ATOM	24755	C4*	G	A1175	216.810	162.624	-26.009	1.00118.49		A16S
ATOM	24756	O4*	G	A1175	215.362	162.681	-25.876	1.00118.49		A16S
ATOM	24757	C1*	G	A1175	215.005	163.637	-24.882	1.00118.49		A16S
ATOM	24758	N9	G	A1175	214.314	162.958	-23.783	1.00141.85		A16S
ATOM	24759	C4	G	A1175	213.618	163.567	-22.758	1.00141.85		A16S
ATOM	24760	N3	G	A1175	213.431	164.897	-22.603	1.00141.85		A16S
ATOM	24761	C2	G	A1175	212.734	165.175	-21.513	1.00141.85		A16S
ATOM	24762	N2	G	A1175	212.460	166.449	-21.202	1.00141.85		A16S
ATOM	24763	N1	G	A1175	212.256	164.225	-20.647	1.00141.85		A16S
ATOM	24764	C6	G	A1175	212.433	162.853	-20.787	1.00141.85		A16S
ATOM	24765	O6	G	A1175	211.954	162.083	-19.948	1.00141.85		A16S
ATOM	24766	C5	G	A1175	213.183	162.538	-21.949	1.00141.85		A16S
ATOM	24767	N7	G	A1175	213.583	161.309	-22.455	1.00141.85		A16S
ATOM	24768	C8	G	A1175	214.246	161.604	-23.541	1.00141.85		A16S
ATOM	24769	C2*	G	A1175	216.298	164.283	-24.388	1.00118.49		A16S
ATOM	24770	O2*	G	A1175	216.527	165.492	-25.090	1.00118.49		A16S
ATOM	24771	C3*	G	A1175	217.317	163.189	-24.688	1.00118.49		A16S
ATOM	24772	O3*	G	A1175	218.646	163.688	-24.727	1.00118.49		A16S
ATOM	24773	P	A	A1176	219.463	163.861	-23.349	1.00120.82		A16S
ATOM	24774	O1P	A	A1176	220.858	164.190	-23.710	1.00129.47		A16S
ATOM	24775	O2P	A	A1176	219.193	162.695	-22.464	1.00129.47		A16S
ATOM	24776	O5*	A	A1176	218.818	165.154	-22.673	1.00120.82		A16S
ATOM	24777	C5*	A	A1176	218.804	166.424	-23.359	1.00120.82		A16S
ATOM	24778	C4*	A	A1176	218.157	167.489	-22.498	1.00120.82		A16S
ATOM	24779	O4*	A	A1176	216.745	167.202	-22.313	1.00120.82		A16S
ATOM	24780	C1*	A	A1176	216.341	167.597	-21.008	1.00120.82		A16S
ATOM	24781	N9	A	A1176	215.810	166.421	-20.303	1.00129.47		A16S
ATOM	24782	C4	A	A1176	215.132	166.417	-19.103	1.00129.47		A16S
ATOM	24783	N3	A	A1176	214.835	167.474	-18.327	1.00129.47		A16S
ATOM	24784	C2	A	A1176	214.163	167.087	-17.245	1.00129.47		A16S
ATOM	24785	N1	A	A1176	213.778	165.860	-16.879	1.00129.47		A16S
ATOM	24786	C6	A	A1176	214.088	164.821	-17.681	1.00129.47		A16S
ATOM	24787	N6	A	A1176	213.694	163.600	-17.323	1.00129.47		A16S



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ATOM	24788	C5	A	A1176	214.808	165.093	-18.855	1.00129.47	A16S
ATOM	24789	N7	A	A1176	215.284	164.272	-19.868	1.00129.47	A16S
ATOM	24790	C8	A	A1176	215.870	165.102	-20.697	1.00129.47	A16S
ATOM	24791	C2*	A	A1176	217.551	168.235	-20.318	1.00120.82	A16S
ATOM	24792	O2*	A	A1176	217.490	169.646	-20.429	1.00120.82	A16S
ATOM	24793	C3*	A	A1176	218.711	167.617	-21.090	1.00120.82	A16S
ATOM	24794	O3*	A	A1176	219.881	168.416	-21.059	1.00120.82	A16S
ATOM	24795	P	G	A1177	221.102	167.992	-20.105	1.00 96.44	A16S
ATOM	24796	O1P	G	A1177	222.303	168.738	-20.558	1.00140.68	A16S
ATOM	24797	O2P	G	A1177	221.149	166.510	-20.040	1.00140.68	A16S
ATOM	24798	O5*	G	A1177	220.681	168.542	-18.667	1.00 96.44	A16S
ATOM	24799	C5*	G	A1177	220.283	169.916	-18.482	1.00 96.44	A16S
ATOM	24800	C4*	G	A1177	219.364	170.029	-17.292	1.00 96.44	A16S
ATOM	24801	O4*	G	A1177	218.152	169.290	-17.563	1.00 96.44	A16S
ATOM	24802	C1*	G	A1177	217.720	168.632	-16.387	1.00 96.44	A16S
ATOM	24803	N9	G	A1177	217.685	167.200	-16.652	1.00140.68	A16S
ATOM	24804	C4	G	A1177	217.041	166.259	-15.897	1.00140.68	A16S
ATOM	24805	N3	G	A1177	216.328	166.500	-14.782	1.00140.68	A16S
ATOM	24806	C2	G	A1177	215.843	165.394	-14.262	1.00140.68	A16S
ATOM	24807	N2	G	A1177	215.120	165.454	-13.138	1.00140.68	A16S
ATOM	24808	N1	G	A1177	216.034	164.148	-14.803	1.00140.68	A16S
ATOM	24809	C6	G	A1177	216.762	163.878	-15.955	1.00140.68	A16S
ATOM	24810	O6	G	A1177	216.874	162.716	-16.359	1.00140.68	A16S
ATOM	24811	C5	G	A1177	217.294	165.056	-16.516	1.00140.68	A16S
ATOM	24812	N7	G	A1177	218.077	165.239	-17.644	1.00140.68	A16S
ATOM	24813	C8	G	A1177	218.285	166.525	-17.686	1.00140.68	A16S
ATOM	24814	C2*	G	A1177	218.681	168.990	-15.253	1.00 96.44	A16S
ATOM	24815	O2*	G	A1177	218.140	170.012	-14.444	1.00 96.44	A16S
ATOM	24816	C3*	G	A1177	219.920	169.416	-16.021	1.00 96.44	A16S
ATOM	24817	O3*	G	A1177	220.669	170.365	-15.296	1.00 96.44	A16S
ATOM	24818	P	G	A1178	222.055	169.927	-14.642	1.00110.57	A16S
ATOM	24819	O1P	G	A1178	222.606	171.088	-13.900	1.00107.16	A16S
ATOM	24820	O2P	G	A1178	222.853	169.299	-15.733	1.00107.16	A16S
ATOM	24821	O5*	G	A1178	221.639	168.807	-13.585	1.00110.57	A16S
ATOM	24822	C5*	G	A1178	220.857	169.134	-12.418	1.00110.57	A16S
ATOM	24823	C4*	G	A1178	220.476	167.875	-11.664	1.00110.57	A16S
ATOM	24824	O4*	G	A1178	219.512	167.103	-12.430	1.00110.57	A16S
ATOM	24825	C1*	G	A1178	219.693	165.717	-12.168	1.00110.57	A16S
ATOM	24826	N9	G	A1178	219.978	165.031	-13.426	1.00107.16	A16S
ATOM	24827	C4	G	A1178	219.700	163.714	-13.724	1.00107.16	A16S
ATOM	24828	N3	G	A1178	219.077	162.829	-12.916	1.00107.16	A16S
ATOM	24829	C2	G	A1178	218.972	161.634	-13.476	1.00107.16	A16S
ATOM	24830	N2	G	A1178	218.373	160.633	-12.810	1.00107.16	A16S
ATOM	24831	N1	G	A1178	219.446	161.330	-14.729	1.00107.16	A16S
ATOM	24832	C6	G	A1178	220.095	162.222	-15.577	1.00107.16	A16S
ATOM	24833	O6	G	A1178	220.497	161.839	-16.684	1.00107.16	A16S
ATOM	24834	C5	G	A1178	220.204	163.513	-14.992	1.00107.16	A16S
ATOM	24835	N7	G	A1178	220.761	164.682	-15.492	1.00107.16	A16S
ATOM	24836	C8	G	A1178	220.600	165.554	-14.534	1.00107.16	A16S
ATOM	24837	C2*	G	A1178	220.843	165.576	-11.166	1.00110.57	A16S
ATOM	24838	O2*	G	A1178	220.334	165.444	-9.852	1.00110.57	A16S
ATOM	24839	C3*	G	A1178	221.594	166.886	-11.365	1.00110.57	A16S
ATOM	24840	O3*	G	A1178	222.339	167.232	-10.209	1.00110.57	A16S
ATOM	24841	P	A	A1179	223.915	166.928	-10.168	1.00 87.24	A16S
ATOM	24842	O1P	A	A1179	224.478	167.621	-8.982	1.00117.20	A16S
ATOM	24843	O2P	A	A1179	224.474	167.215	-11.516	1.00117.20	A16S
ATOM	24844	O5*	A	A1179	224.019	165.357	-9.904	1.00 87.24	A16S
ATOM	24845	C5*	A	A1179	225.299	164.684	-10.003	1.00 87.24	A16S
ATOM	24846	C4*	A	A1179	225.215	163.250	-9.507	1.00 87.24	A16S
ATOM	24847	O4*	A	A1179	225.011	163.220	-8.069	1.00 87.24	A16S
ATOM	24848	C1*	A	A1179	224.223	162.093	-7.725	1.00 87.24	A16S
ATOM	24849	N9	A	A1179	222.967	162.580	-7.160	1.00117.20	A16S
ATOM	24850	C4	A	A1179	222.062	161.841	-6.436	1.00117.20	A16S
ATOM	24851	N3	A	A1179	222.168	160.551	-6.075	1.00117.20	A16S
ATOM	24852	C2	A	A1179	221.102	160.174	-5.375	1.00117.20	A16S
ATOM	24853	N1	A	A1179	220.021	160.885	-5.027	1.00117.20	A16S
ATOM	24854	C6	A	A1179	219.945	162.177	-5.412	1.00117.20	A16S
ATOM	24855	N6	A	A1179	218.865	162.881	-5.075	1.00117.20	A16S
ATOM	24856	C5	A	A1179	221.017	162.700	-6.151	1.00117.20	A16S
ATOM	24857	N7	A	A1179	221.260	163.962	-6.676	1.00117.20	A16S
ATOM	24858	C8	A	A1179	222.428	163.840	-7.257	1.00117.20	A16S
ATOM	24859	C2*	A	A1179	223.962	161.300	-9.008	1.00 87.24	A16S
ATOM	24860	O2*	A	A1179	224.908	160.258	-9.153	1.00 87.24	A16S
ATOM	24861	C3*	A	A1179	224.101	162.385	-10.065	1.00 87.24	A16S
ATOM	24862	O3*	A	A1179	224.392	161.863	-11.345	1.00 87.24	A16S
ATOM	24863	P	A	A1180	223.220	161.781	-12.434	1.00 92.05	A16S
ATOM	24864	O1P	A	A1180	223.815	161.290	-13.698	1.00113.24	A16S



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ATOM	24865	O2P	A	A1180	222.482	163.068	-12.426	1.00113.24	A16S
ATOM	24866	O5*	A	A1180	222.261	160.654	-11.850	1.00 92.05	A16S
ATOM	24867	C5*	A	A1180	222.791	159.360	-11.494	1.00 92.05	A16S
ATOM	24868	C4*	A	A1180	221.839	158.629	-10.573	1.00 92.05	A16S
ATOM	24869	O4*	A	A1180	221.694	159.381	-9.341	1.00 92.05	A16S
ATOM	24870	C1*	A	A1180	220.344	159.340	-8.913	1.00 92.05	A16S
ATOM	24871	N9	A	A1180	219.825	160.710	-8.955	1.00113.24	A16S
ATOM	24872	C4	A	A1180	218.711	161.205	-8.317	1.00113.24	A16S
ATOM	24873	N3	A	A1180	217.861	160.541	-7.515	1.00113.24	A16S
ATOM	24874	C2	A	A1180	216.891	161.348	-7.086	1.00113.24	A16S
ATOM	24875	N1	A	A1180	216.688	162.644	-7.352	1.00113.24	A16S
ATOM	24876	C6	A	A1180	217.560	163.280	-8.161	1.00113.24	A16S
ATOM	24877	N6	A	A1180	217.356	164.570	-8.437	1.00113.24	A16S
ATOM	24878	C5	A	A1180	218.635	162.538	-8.675	1.00113.24	A16S
ATOM	24879	N7	A	A1180	219.683	162.880	-9.515	1.00113.24	A16S
ATOM	24880	C8	A	A1180	220.356	161.767	-9.649	1.00113.24	A16S
ATOM	24881	C2*	A	A1180	219.595	158.373	-9.836	1.00 92.05	A16S
ATOM	24882	O2*	A	A1180	219.616	157.078	-9.263	1.00 92.05	A16S
ATOM	24883	C3*	A	A1180	220.426	158.455	-11.110	1.00 92.05	A16S
ATOM	24884	O3*	A	A1180	220.321	157.286	-11.920	1.00 92.05	A16S
ATOM	24885	P	G	A1181	219.601	157.379	-13.349	1.00 89.67	A16S
ATOM	24886	O1P	G	A1181	219.747	156.072	-14.016	1.00104.10	A16S
ATOM	24887	O2P	G	A1181	220.064	158.606	-14.034	1.00104.10	A16S
ATOM	24888	O5*	G	A1181	218.069	157.566	-12.988	1.00 89.67	A16S
ATOM	24889	C5*	G	A1181	217.393	156.605	-12.176	1.00 89.67	A16S
ATOM	24890	C4*	G	A1181	215.968	156.466	-12.631	1.00 89.67	A16S
ATOM	24891	O4*	G	A1181	215.294	157.740	-12.469	1.00 89.67	A16S
ATOM	24892	C1*	G	A1181	214.664	158.086	-13.676	1.00 89.67	A16S
ATOM	24893	N9	G	A1181	214.521	159.535	-13.736	1.00104.10	A16S
ATOM	24894	C4	G	A1181	213.571	160.247	-13.062	1.00104.10	A16S
ATOM	24895	N3	G	A1181	212.632	159.729	-12.248	1.00104.10	A16S
ATOM	24896	C2	G	A1181	211.853	160.660	-11.738	1.00104.10	A16S
ATOM	24897	N2	G	A1181	210.853	160.319	-10.923	1.00104.10	A16S
ATOM	24898	N1	G	A1181	211.991	161.995	-11.991	1.00104.10	A16S
ATOM	24899	C6	G	A1181	212.953	162.553	-12.819	1.00104.10	A16S
ATOM	24900	O6	G	A1181	212.993	163.772	-12.966	1.00104.10	A16S
ATOM	24901	C5	G	A1181	213.791	161.561	-13.391	1.00104.10	A16S
ATOM	24902	N7	G	A1181	214.860	161.675	-14.267	1.00104.10	A16S
ATOM	24903	C8	G	A1181	215.265	160.447	-14.442	1.00104.10	A16S
ATOM	24904	C2*	G	A1181	215.451	157.389	-14.776	1.00 89.67	A16S
ATOM	24905	O2*	G	A1181	214.643	157.252	-15.925	1.00 89.67	A16S
ATOM	24906	C3*	G	A1181	215.771	156.063	-14.091	1.00 89.67	A16S
ATOM	24907	O3*	G	A1181	214.624	155.224	-14.163	1.00 89.67	A16S
ATOM	24908	P	G	A1182	214.682	153.860	-14.994	1.00113.95	A16S
ATOM	24909	O1P	G	A1182	215.534	152.924	-14.222	1.00113.43	A16S
ATOM	24910	O2P	G	A1182	215.022	154.170	-16.402	1.00113.43	A16S
ATOM	24911	O5*	G	A1182	213.175	153.352	-14.956	1.00113.95	A16S
ATOM	24912	C5*	G	A1182	212.525	153.021	-13.710	1.00113.95	A16S
ATOM	24913	C4*	G	A1182	211.088	153.479	-13.745	1.00113.95	A16S
ATOM	24914	O4*	G	A1182	211.100	154.924	-13.819	1.00113.95	A16S
ATOM	24915	C1*	G	A1182	210.105	155.371	-14.715	1.00113.95	A16S
ATOM	24916	N9	G	A1182	210.730	156.273	-15.675	1.00113.43	A16S
ATOM	24917	C4	G	A1182	210.738	157.646	-15.594	1.00113.43	A16S
ATOM	24918	N3	G	A1182	210.147	158.389	-14.629	1.00113.43	A16S
ATOM	24919	C2	G	A1182	210.330	159.686	-14.817	1.00113.43	A16S
ATOM	24920	N2	G	A1182	209.800	160.568	-13.961	1.00113.43	A16S
ATOM	24921	N1	G	A1182	211.043	160.214	-15.860	1.00113.43	A16S
ATOM	24922	C6	G	A1182	211.657	159.475	-16.865	1.00113.43	A16S
ATOM	24923	O6	G	A1182	212.273	160.058	-17.762	1.00113.43	A16S
ATOM	24924	C5	G	A1182	211.461	158.073	-16.683	1.00113.43	A16S
ATOM	24925	N7	G	A1182	211.887	156.991	-17.446	1.00113.43	A16S
ATOM	24926	C8	G	A1182	211.431	155.946	-16.811	1.00113.43	A16S
ATOM	24927	C2*	G	A1182	209.356	154.163	-15.286	1.00113.95	A16S
ATOM	24928	O2*	G	A1182	208.063	154.084	-14.735	1.00113.95	A16S
ATOM	24929	C3*	G	A1182	210.308	153.013	-14.970	1.00113.95	A16S
ATOM	24930	O3*	G	A1182	209.744	151.684	-14.849	1.00113.95	A16S
ATOM	24931	P	A	A1183	208.658	151.320	-13.694	1.00 89.47	A16S
ATOM	24932	O1P	A	A1183	208.254	149.914	-13.959	1.00 98.24	A16S
ATOM	24933	O2P	A	A1183	207.601	152.342	-13.504	1.00 98.24	A16S
ATOM	24934	O5*	A	A1183	209.518	151.291	-12.363	1.00 89.47	A16S
ATOM	24935	C5*	A	A1183	209.264	152.226	-11.321	1.00 89.47	A16S
ATOM	24936	C4*	A	A1183	209.819	151.706	-10.037	1.00 89.47	A16S
ATOM	24937	O4*	A	A1183	209.186	150.447	-9.756	1.00 89.47	A16S
ATOM	24938	C1*	A	A1183	210.070	149.644	-9.019	1.00 89.47	A16S
ATOM	24939	N9	A	A1183	209.934	148.268	-9.470	1.00 98.24	A16S
ATOM	24940	C4	A	A1183	209.570	147.232	-8.654	1.00 98.24	A16S
ATOM	24941	N3	A	A1183	209.291	147.295	-7.344	1.00 98.24	A16S



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ATOM	24942	C2	A	A1183	208.982	146.096	-6.877	1.00	98.24	A16S
ATOM	24943	N1	A	A1183	208.923	144.932	-7.522	1.00	98.24	A16S
ATOM	24944	C6	A	A1183	209.205	144.909	-8.843	1.00	98.24	A16S
ATOM	24945	N6	A	A1183	209.139	143.747	-9.494	1.00	98.24	A16S
ATOM	24946	C5	A	A1183	209.548	146.114	-9.454	1.00	98.24	A16S
ATOM	24947	N7	A	A1183	209.887	146.436	-10.759	1.00	98.24	A16S
ATOM	24948	C8	A	A1183	210.109	147.726	-10.715	1.00	98.24	A16S
ATOM	24949	C2*	A	A1183	211.468	150.265	-9.046	1.00	89.47	A16S
ATOM	24950	O2*	A	A1183	211.789	150.657	-7.727	1.00	89.47	A16S
ATOM	24951	C3*	A	A1183	211.302	151.393	-10.078	1.00	89.47	A16S
ATOM	24952	O3*	A	A1183	211.993	152.640	-9.865	1.00	89.47	A16S
ATOM	24953	P	G	A1184	213.208	152.752	-8.816	1.00	95.22	A16S
ATOM	24954	O1P	G	A1184	213.879	151.435	-8.649	1.00	95.47	A16S
ATOM	24955	O2P	G	A1184	212.684	153.459	-7.614	1.00	95.47	A16S
ATOM	24956	O5*	G	A1184	214.246	153.707	-9.559	1.00	95.22	A16S
ATOM	24957	C5*	G	A1184	214.870	153.316	-10.806	1.00	95.22	A16S
ATOM	24958	C4*	G	A1184	216.337	152.992	-10.587	1.00	95.22	A16S
ATOM	24959	O4*	G	A1184	216.950	154.086	-9.849	1.00	95.22	A16S
ATOM	24960	C1*	G	A1184	217.890	153.576	-8.913	1.00	95.22	A16S
ATOM	24961	N9	G	A1184	217.392	153.860	-7.568	1.00	95.47	A16S
ATOM	24962	C4	G	A1184	218.106	153.785	-6.401	1.00	95.47	A16S
ATOM	24963	N3	G	A1184	219.407	153.474	-6.292	1.00	95.47	A16S
ATOM	24964	C2	G	A1184	219.809	153.482	-5.038	1.00	95.47	A16S
ATOM	24965	N2	G	A1184	221.077	153.216	-4.756	1.00	95.47	A16S
ATOM	24966	N1	G	A1184	218.999	153.755	-3.971	1.00	95.47	A16S
ATOM	24967	C6	G	A1184	217.652	154.072	-4.058	1.00	95.47	A16S
ATOM	24968	O6	G	A1184	217.002	154.294	-3.029	1.00	95.47	A16S
ATOM	24969	C5	G	A1184	217.209	154.087	-5.400	1.00	95.47	A16S
ATOM	24970	N7	G	A1184	215.958	154.370	-5.927	1.00	95.47	A16S
ATOM	24971	C8	G	A1184	216.114	154.227	-7.214	1.00	95.47	A16S
ATOM	24972	C2*	G	A1184	218.000	152.069	-9.151	1.00	95.22	A16S
ATOM	24973	O2*	G	A1184	219.063	151.786	-10.047	1.00	95.22	A16S
ATOM	24974	C3*	G	A1184	216.630	151.758	-9.740	1.00	95.22	A16S
ATOM	24975	O3*	G	A1184	216.637	150.555	-10.497	1.00	95.22	A16S
ATOM	24976	P	G	A1185	216.417	149.149	-9.750	1.00	82.16	A16S
ATOM	24977	O1P	G	A1185	216.412	148.128	-10.817	1.00	86.19	A16S
ATOM	24978	O2P	G	A1185	215.276	149.236	-8.807	1.00	86.19	A16S
ATOM	24979	O5*	G	A1185	217.735	148.939	-8.887	1.00	82.16	A16S
ATOM	24980	C5*	G	A1185	218.960	148.538	-9.518	1.00	82.16	A16S
ATOM	24981	C4*	G	A1185	220.011	148.221	-8.481	1.00	82.16	A16S
ATOM	24982	O4*	G	A1185	220.401	149.435	-7.781	1.00	82.16	A16S
ATOM	24983	C1*	G	A1185	220.666	149.133	-6.416	1.00	82.16	A16S
ATOM	24984	N9	G	A1185	219.679	149.832	-5.591	1.00	86.19	A16S
ATOM	24985	C4	G	A1185	219.664	149.872	-4.219	1.00	86.19	A16S
ATOM	24986	N3	G	A1185	220.587	149.322	-3.410	1.00	86.19	A16S
ATOM	24987	C2	G	A1185	220.297	149.496	-2.144	1.00	86.19	A16S
ATOM	24988	N2	G	A1185	221.129	149.022	-1.218	1.00	86.19	A16S
ATOM	24989	N1	G	A1185	219.175	150.150	-1.699	1.00	86.19	A16S
ATOM	24990	C6	G	A1185	218.207	150.727	-2.517	1.00	86.19	A16S
ATOM	24991	O6	G	A1185	217.227	151.290	-2.016	1.00	86.19	A16S
ATOM	24992	C5	G	A1185	218.519	150.559	-3.883	1.00	86.19	A16S
ATOM	24993	N7	G	A1185	217.841	150.980	-5.021	1.00	86.19	A16S
ATOM	24994	C8	G	A1185	218.568	150.535	-6.011	1.00	86.19	A16S
ATOM	24995	C2*	G	A1185	220.535	147.613	-6.246	1.00	82.16	A16S
ATOM	24996	O2*	G	A1185	221.785	146.956	-6.373	1.00	82.16	A16S
ATOM	24997	C3*	G	A1185	219.577	147.275	-7.375	1.00	82.16	A16S
ATOM	24998	O3*	G	A1185	219.625	145.920	-7.747	1.00	82.16	A16S
ATOM	24999	P	G	A1186	218.459	144.945	-7.251	1.00	58.71	A16S
ATOM	25000	O1P	G	A1186	218.482	143.740	-8.114	1.00	83.53	A16S
ATOM	25001	O2P	G	A1186	217.213	145.748	-7.147	1.00	83.53	A16S
ATOM	25002	O5*	G	A1186	218.927	144.528	-5.791	1.00	58.71	A16S
ATOM	25003	C5*	G	A1186	220.215	143.931	-5.590	1.00	58.71	A16S
ATOM	25004	C4*	G	A1186	220.523	143.831	-4.122	1.00	58.71	A16S
ATOM	25005	O4*	G	A1186	220.678	145.164	-3.575	1.00	58.71	A16S
ATOM	25006	C1*	G	A1186	220.193	145.194	-2.238	1.00	58.71	A16S
ATOM	25007	N9	G	A1186	219.102	146.165	-2.140	1.00	83.53	A16S
ATOM	25008	C4	G	A1186	218.463	146.533	-0.982	1.00	83.53	A16S
ATOM	25009	N3	G	A1186	218.752	146.081	0.256	1.00	83.53	A16S
ATOM	25010	C2	G	A1186	217.971	146.618	1.167	1.00	83.53	A16S
ATOM	25011	N2	G	A1186	218.146	146.300	2.446	1.00	83.53	A16S
ATOM	25012	N1	G	A1186	216.967	147.510	0.889	1.00	83.53	A16S
ATOM	25013	C6	G	A1186	216.641	147.979	-0.381	1.00	83.53	A16S
ATOM	25014	O6	G	A1186	215.695	148.769	-0.529	1.00	83.53	A16S
ATOM	25015	C5	G	A1186	217.493	147.431	-1.368	1.00	83.53	A16S
ATOM	25016	N7	G	A1186	217.531	147.639	-2.740	1.00	83.53	A16S
ATOM	25017	C8	G	A1186	218.499	146.870	-3.156	1.00	83.53	A16S
ATOM	25018	C2*	G	A1186	219.710	143.790	-1.887	1.00	58.71	A16S



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ATOM	25019	O2* G	A1186	220.705	143.119	-1.143	1.00	58.71	A16S
ATOM	25020	C3* G	A1186	219.437	143.209	-3.269	1.00	58.71	A16S
ATOM	25021	O3* G	A1186	219.444	141.802	-3.285	1.00	58.71	A16S
ATOM	25022	P G	A1187	218.222	141.020	-2.614	1.00	73.04	A16S
ATOM	25023	O1P G	A1187	218.445	139.558	-2.754	1.00	80.27	A16S
ATOM	25024	O2P G	A1187	216.968	141.625	-3.133	1.00	80.27	A16S
ATOM	25025	O5* G	A1187	218.376	141.387	-1.075	1.00	73.04	A16S
ATOM	25026	C5* G	A1187	217.449	140.891	-0.117	1.00	73.04	A16S
ATOM	25027	C4* G	A1187	217.742	141.463	1.244	1.00	73.04	A16S
ATOM	25028	O4* G	A1187	217.766	142.913	1.175	1.00	73.04	A16S
ATOM	25029	C1* G	A1187	217.070	143.461	2.286	1.00	73.04	A16S
ATOM	25030	N9 G	A1187	215.923	144.226	1.780	1.00	80.27	A16S
ATOM	25031	C4 G	A1187	215.044	144.994	2.516	1.00	80.27	A16S
ATOM	25032	N3 G	A1187	215.051	145.148	3.858	1.00	80.27	A16S
ATOM	25033	C2 G	A1187	214.110	145.989	4.267	1.00	80.27	A16S
ATOM	25034	N2 G	A1187	213.987	146.269	5.575	1.00	80.27	A16S
ATOM	25035	N1 G	A1187	213.226	146.623	3.427	1.00	80.27	A16S
ATOM	25036	C6 G	A1187	213.197	146.481	2.045	1.00	80.27	A16S
ATOM	25037	O6 G	A1187	212.368	147.113	1.381	1.00	80.27	A16S
ATOM	25038	C5 G	A1187	214.200	145.577	1.589	1.00	80.27	A16S
ATOM	25039	N7 G	A1187	214.510	145.153	0.306	1.00	80.27	A16S
ATOM	25040	C8 G	A1187	215.527	144.352	0.466	1.00	80.27	A16S
ATOM	25041	C2* G	A1187	216.724	142.301	3.223	1.00	73.04	A16S
ATOM	25042	O2* G	A1187	217.768	142.139	4.166	1.00	73.04	A16S
ATOM	25043	C3* G	A1187	216.649	141.139	2.243	1.00	73.04	A16S
ATOM	25044	O3* G	A1187	216.850	139.860	2.824	1.00	73.04	A16S
ATOM	25045	P A	A1188	215.579	138.920	3.102	1.00	73.73	A16S
ATOM	25046	O1P A	A1188	216.026	137.605	3.665	1.00	64.79	A16S
ATOM	25047	O2P A	A1188	214.716	138.949	1.889	1.00	64.79	A16S
ATOM	25048	O5* A	A1188	214.823	139.705	4.257	1.00	73.73	A16S
ATOM	25049	C5* A	A1188	215.388	139.790	5.576	1.00	73.73	A16S
ATOM	25050	C4* A	A1188	214.461	140.558	6.467	1.00	73.73	A16S
ATOM	25051	O4* A	A1188	214.401	141.922	6.005	1.00	73.73	A16S
ATOM	25052	C1* A	A1188	213.078	142.395	6.095	1.00	73.73	A16S
ATOM	25053	N9 A	A1188	212.660	142.726	4.743	1.00	64.79	A16S
ATOM	25054	C4 A	A1188	211.675	143.606	4.380	1.00	64.79	A16S
ATOM	25055	N3 A	A1188	210.890	144.328	5.192	1.00	64.79	A16S
ATOM	25056	C2 A	A1188	210.057	145.089	4.485	1.00	64.79	A16S
ATOM	25057	N1 A	A1188	209.928	145.201	3.161	1.00	64.79	A16S
ATOM	25058	C6 A	A1188	210.732	144.456	2.373	1.00	64.79	A16S
ATOM	25059	N6 A	A1188	210.608	144.565	1.045	1.00	64.79	A16S
ATOM	25060	C5 A	A1188	211.662	143.607	3.001	1.00	64.79	A16S
ATOM	25061	N7 A	A1188	212.619	142.734	2.499	1.00	64.79	A16S
ATOM	25062	C8 A	A1188	213.179	142.236	3.572	1.00	64.79	A16S
ATOM	25063	C2* A	A1188	212.231	141.302	6.748	1.00	73.73	A16S
ATOM	25064	O2* A	A1188	212.205	141.491	8.148	1.00	73.73	A16S
ATOM	25065	C3* A	A1188	213.030	140.063	6.410	1.00	73.73	A16S
ATOM	25066	O3* A	A1188	212.833	139.045	7.365	1.00	73.73	A16S
ATOM	25067	P C	A1189	211.919	137.791	6.991	1.00	66.87	A16S
ATOM	25068	O1P C	A1189	211.484	137.175	8.265	1.00	79.55	A16S
ATOM	25069	O2P C	A1189	212.639	136.974	5.991	1.00	79.55	A16S
ATOM	25070	O5* C	A1189	210.658	138.477	6.302	1.00	66.87	A16S
ATOM	25071	C5* C	A1189	209.742	139.239	7.096	1.00	66.87	A16S
ATOM	25072	C4* C	A1189	208.706	139.915	6.235	1.00	66.87	A16S
ATOM	25073	O4* C	A1189	209.352	140.830	5.320	1.00	66.87	A16S
ATOM	25074	C1* C	A1189	208.560	140.948	4.150	1.00	66.87	A16S
ATOM	25075	N1 C	A1189	209.353	140.497	3.004	1.00	79.55	A16S
ATOM	25076	C6 C	A1189	210.396	139.629	3.172	1.00	79.55	A16S
ATOM	25077	C2 C	A1189	209.025	140.975	1.733	1.00	79.55	A16S
ATOM	25078	O2 C	A1189	208.048	141.741	1.608	1.00	79.55	A16S
ATOM	25079	N3 C	A1189	209.770	140.591	0.676	1.00	79.55	A16S
ATOM	25080	C4 C	A1189	210.798	139.758	0.854	1.00	79.55	A16S
ATOM	25081	N4 C	A1189	211.522	139.421	-0.213	1.00	79.55	A16S
ATOM	25082	C5 C	A1189	211.136	139.237	2.136	1.00	79.55	A16S
ATOM	25083	C2* C	A1189	207.317	140.079	4.333	1.00	66.87	A16S
ATOM	25084	O2* C	A1189	206.277	140.888	4.859	1.00	66.87	A16S
ATOM	25085	C3* C	A1189	207.811	139.059	5.348	1.00	66.87	A16S
ATOM	25086	O3* C	A1189	206.714	138.536	6.061	1.00	66.87	A16S
ATOM	25087	P G	A1190	206.656	136.973	6.384	1.00	75.64	A16S
ATOM	25088	O1P G	A1190	205.717	136.857	7.517	1.00	104.80	A16S
ATOM	25089	O2P G	A1190	208.026	136.431	6.507	1.00	104.80	A16S
ATOM	25090	O5* G	A1190	205.985	136.336	5.096	1.00	75.64	A16S
ATOM	25091	C5* G	A1190	204.617	136.598	4.776	1.00	75.64	A16S
ATOM	25092	C4* G	A1190	204.219	135.814	3.553	1.00	75.64	A16S
ATOM	25093	O4* G	A1190	205.209	136.084	2.534	1.00	75.64	A16S
ATOM	25094	C1* G	A1190	205.393	134.936	1.739	1.00	75.64	A16S
ATOM	25095	N9 G	A1190	206.812	134.605	1.736	1.00	104.80	A16S



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ATOM	25096	C4	G	A1190	207.509	133.989	0.727	1.00104.80	A16S
ATOM	25097	N3	G	A1190	206.994	133.545	-0.439	1.00104.80	A16S
ATOM	25098	C2	G	A1190	207.924	133.031	-1.224	1.00104.80	A16S
ATOM	25099	N2	G	A1190	207.591	132.561	-2.431	1.00104.80	A16S
ATOM	25100	N1	G	A1190	209.255	132.948	-0.887	1.00104.80	A16S
ATOM	25101	C6	G	A1190	209.808	133.403	0.309	1.00104.80	A16S
ATOM	25102	O6	G	A1190	211.034	133.296	0.514	1.00104.80	A16S
ATOM	25103	C5	G	A1190	208.820	133.960	1.155	1.00104.80	A16S
ATOM	25104	N7	G	A1190	208.937	134.525	2.415	1.00104.80	A16S
ATOM	25105	C8	G	A1190	207.722	134.883	2.722	1.00104.80	A16S
ATOM	25106	C2*	G	A1190	204.431	133.849	2.227	1.00 75.64	A16S
ATOM	25107	O2*	G	A1190	203.278	133.964	1.424	1.00 75.64	A16S
ATOM	25108	C3*	G	A1190	204.140	134.288	3.657	1.00 75.64	A16S
ATOM	25109	O3*	G	A1190	202.837	133.923	4.203	1.00 75.64	A16S
ATOM	25110	P	A	A1191	201.811	132.908	3.432	1.00 51.67	A16S
ATOM	25111	O1P	A	A1191	202.512	131.984	2.513	1.00 82.19	A16S
ATOM	25112	O2P	A	A1191	200.937	132.330	4.481	1.00 82.19	A16S
ATOM	25113	O5*	A	A1191	200.860	133.867	2.585	1.00 51.67	A16S
ATOM	25114	C5*	A	A1191	200.177	134.965	3.233	1.00 51.67	A16S
ATOM	25115	C4*	A	A1191	198.804	135.197	2.623	1.00 51.67	A16S
ATOM	25116	O4*	A	A1191	198.945	135.522	1.219	1.00 51.67	A16S
ATOM	25117	C1*	A	A1191	197.882	134.957	0.487	1.00 51.67	A16S
ATOM	25118	N9	A	A1191	198.478	134.038	-0.477	1.00 82.19	A16S
ATOM	25119	C4	A	A1191	197.914	133.557	-1.628	1.00 82.19	A16S
ATOM	25120	N3	A	A1191	196.698	133.833	-2.116	1.00 82.19	A16S
ATOM	25121	C2	A	A1191	196.492	133.180	-3.251	1.00 82.19	A16S
ATOM	25122	N1	A	A1191	197.300	132.349	-3.902	1.00 82.19	A16S
ATOM	25123	C6	A	A1191	198.516	132.093	-3.382	1.00 82.19	A16S
ATOM	25124	N6	A	A1191	199.327	131.256	-4.028	1.00 82.19	A16S
ATOM	25125	C5	A	A1191	198.857	132.723	-2.187	1.00 82.19	A16S
ATOM	25126	N7	A	A1191	200.001	132.683	-1.410	1.00 82.19	A16S
ATOM	25127	C8	A	A1191	199.727	133.478	-0.411	1.00 82.19	A16S
ATOM	25128	C2*	A	A1191	196.913	134.297	1.477	1.00 51.67	A16S
ATOM	25129	O2*	A	A1191	195.828	135.175	1.692	1.00 51.67	A16S
ATOM	25130	C3*	A	A1191	197.810	134.047	2.698	1.00 51.67	A16S
ATOM	25131	O3*	A	A1191	197.100	134.138	3.948	1.00 51.67	A16S
ATOM	25132	P	C	A1192	196.579	132.804	4.706	1.00 55.33	A16S
ATOM	25133	O1P	C	A1192	195.920	133.281	5.959	1.00 82.41	A16S
ATOM	25134	O2P	C	A1192	197.668	131.786	4.797	1.00 82.41	A16S
ATOM	25135	O5*	C	A1192	195.436	132.244	3.740	1.00 55.33	A16S
ATOM	25136	C5*	C	A1192	194.130	132.855	3.698	1.00 55.33	A16S
ATOM	25137	C4*	C	A1192	193.166	131.973	2.936	1.00 55.33	A16S
ATOM	25138	O4*	C	A1192	193.356	132.147	1.512	1.00 55.33	A16S
ATOM	25139	C1*	C	A1192	193.204	130.895	0.861	1.00 55.33	A16S
ATOM	25140	N1	C	A1192	194.474	130.572	0.185	1.00 82.41	A16S
ATOM	25141	C6	C	A1192	195.638	131.190	0.546	1.00 82.41	A16S
ATOM	25142	C2	C	A1192	194.479	129.601	-0.809	1.00 82.41	A16S
ATOM	25143	O2	C	A1192	193.407	129.129	-1.182	1.00 82.41	A16S
ATOM	25144	N3	C	A1192	195.653	129.214	-1.350	1.00 82.41	A16S
ATOM	25145	C4	C	A1192	196.789	129.792	-0.959	1.00 82.41	A16S
ATOM	25146	N4	C	A1192	197.932	129.352	-1.484	1.00 82.41	A16S
ATOM	25147	C5	C	A1192	196.806	130.837	-0.001	1.00 82.41	A16S
ATOM	25148	C2*	C	A1192	192.839	129.842	1.916	1.00 55.33	A16S
ATOM	25149	O2*	C	A1192	191.462	129.583	1.967	1.00 55.33	A16S
ATOM	25150	C3*	C	A1192	193.337	130.486	3.195	1.00 55.33	A16S
ATOM	25151	O3*	C	A1192	192.580	130.043	4.303	1.00 55.33	A16S
ATOM	25152	P	G	A1193	193.000	128.691	5.041	1.00 60.89	A16S
ATOM	25153	O1P	G	A1193	191.973	128.318	6.041	1.00 94.28	A16S
ATOM	25154	O2P	G	A1193	194.420	128.841	5.470	1.00 94.28	A16S
ATOM	25155	O5*	G	A1193	192.907	127.627	3.869	1.00 60.89	A16S
ATOM	25156	C5*	G	A1193	193.840	126.537	3.795	1.00 60.89	A16S
ATOM	25157	C4*	G	A1193	194.066	126.131	2.353	1.00 60.89	A16S
ATOM	25158	O4*	G	A1193	194.665	127.222	1.596	1.00 60.89	A16S
ATOM	25159	C1*	G	A1193	195.621	126.704	0.690	1.00 60.89	A16S
ATOM	25160	N9	G	A1193	196.937	127.238	1.049	1.00 94.28	A16S
ATOM	25161	C4	G	A1193	198.150	126.828	0.544	1.00 94.28	A16S
ATOM	25162	N3	G	A1193	198.337	125.859	-0.377	1.00 94.28	A16S
ATOM	25163	C2	G	A1193	199.615	125.677	-0.653	1.00 94.28	A16S
ATOM	25164	N2	G	A1193	199.972	124.742	-1.550	1.00 94.28	A16S
ATOM	25165	N1	G	A1193	200.633	126.397	-0.069	1.00 94.28	A16S
ATOM	25166	C6	G	A1193	200.463	127.401	0.881	1.00 94.28	A16S
ATOM	25167	O6	G	A1193	201.449	127.989	1.344	1.00 94.28	A16S
ATOM	25168	C5	G	A1193	199.094	127.601	1.185	1.00 94.28	A16S
ATOM	25169	N7	G	A1193	198.492	128.482	2.070	1.00 94.28	A16S
ATOM	25170	C8	G	A1193	197.215	128.232	1.955	1.00 94.28	A16S
ATOM	25171	C2*	G	A1193	195.553	125.176	0.782	1.00 60.89	A16S
ATOM	25172	O2*	G	A1193	194.626	124.686	-0.163	1.00 60.89	A16S



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ATOM	25173	C3*	G	A1193	195.034	124.976	2.193	1.00	60.89	A16S
ATOM	25174	O3*	G	A1193	194.355	123.750	2.334	1.00	60.89	A16S
ATOM	25175	P	U	A1194	195.111	122.509	2.997	1.00	62.01	A16S
ATOM	25176	O1P	U	A1194	194.136	121.402	3.173	1.00	77.50	A16S
ATOM	25177	O2P	U	A1194	195.874	123.012	4.165	1.00	77.50	A16S
ATOM	25178	O5*	U	A1194	196.144	122.065	1.868	1.00	62.01	A16S
ATOM	25179	C5*	U	A1194	195.699	121.751	0.522	1.00	62.01	A16S
ATOM	25180	C4*	U	A1194	196.844	121.188	-0.291	1.00	62.01	A16S
ATOM	25181	O4*	U	A1194	197.798	122.230	-0.619	1.00	62.01	A16S
ATOM	25182	C1*	U	A1194	199.107	121.694	-0.594	1.00	62.01	A16S
ATOM	25183	N1	U	A1194	199.931	122.502	0.317	1.00	77.50	A16S
ATOM	25184	C6	U	A1194	199.389	123.123	1.418	1.00	77.50	A16S
ATOM	25185	C2	U	A1194	201.279	122.608	0.035	1.00	77.50	A16S
ATOM	25186	O2	U	A1194	201.803	122.087	-0.946	1.00	77.50	A16S
ATOM	25187	N3	U	A1194	201.996	123.348	0.942	1.00	77.50	A16S
ATOM	25188	C4	U	A1194	201.514	123.979	2.066	1.00	77.50	A16S
ATOM	25189	O4	U	A1194	202.296	124.561	2.810	1.00	77.50	A16S
ATOM	25190	C5	U	A1194	200.115	123.838	2.275	1.00	77.50	A16S
ATOM	25191	C2*	U	A1194	199.025	120.216	-0.189	1.00	62.01	A16S
ATOM	25192	O2*	U	A1194	199.174	119.366	-1.300	1.00	62.01	A16S
ATOM	25193	C3*	U	A1194	197.641	120.123	0.433	1.00	62.01	A16S
ATOM	25194	O3*	U	A1194	197.065	118.856	0.197	1.00	62.01	A16S
ATOM	25195	P	C	A1195	197.306	117.673	1.248	1.00	58.97	A16S
ATOM	25196	O1P	C	A1195	196.464	116.519	0.834	1.00	92.61	A16S
ATOM	25197	O2P	C	A1195	197.181	118.226	2.626	1.00	92.61	A16S
ATOM	25198	O5*	C	A1195	198.821	117.280	1.030	1.00	58.97	A16S
ATOM	25199	C5*	C	A1195	199.231	116.683	-0.186	1.00	58.97	A16S
ATOM	25200	C4*	C	A1195	200.687	116.414	-0.117	1.00	58.97	A16S
ATOM	25201	O4*	C	A1195	201.365	117.678	0.017	1.00	58.97	A16S
ATOM	25202	C1*	C	A1195	202.410	117.554	0.951	1.00	58.97	A16S
ATOM	25203	N1	C	A1195	202.266	118.643	1.945	1.00	92.61	A16S
ATOM	25204	C6	C	A1195	201.086	118.859	2.600	1.00	92.61	A16S
ATOM	25205	C2	C	A1195	203.363	119.488	2.179	1.00	92.61	A16S
ATOM	25206	O2	C	A1195	204.434	119.254	1.604	1.00	92.61	A16S
ATOM	25207	N3	C	A1195	203.230	120.535	3.023	1.00	92.61	A16S
ATOM	25208	C4	C	A1195	202.069	120.757	3.629	1.00	92.61	A16S
ATOM	25209	N4	C	A1195	201.982	121.822	4.424	1.00	92.61	A16S
ATOM	25210	C5	C	A1195	200.944	119.898	3.440	1.00	92.61	A16S
ATOM	25211	C2*	C	A1195	202.460	116.095	1.430	1.00	58.97	A16S
ATOM	25212	O2*	C	A1195	203.443	115.441	0.655	1.00	58.97	A16S
ATOM	25213	C3*	C	A1195	201.049	115.606	1.109	1.00	58.97	A16S
ATOM	25214	O3*	C	A1195	200.940	114.250	0.698	1.00	58.97	A16S
ATOM	25215	P	U	A1196	201.231	113.054	1.723	1.00	81.08	A16S
ATOM	25216	O1P	U	A1196	202.504	113.358	2.395	1.00	122.97	A16S
ATOM	25217	O2P	U	A1196	201.093	111.786	0.966	1.00	122.97	A16S
ATOM	25218	O5*	U	A1196	200.054	113.105	2.799	1.00	81.08	A16S
ATOM	25219	C5*	U	A1196	199.906	114.226	3.693	1.00	81.08	A16S
ATOM	25220	C4*	U	A1196	199.675	113.767	5.129	1.00	81.08	A16S
ATOM	25221	O4*	U	A1196	198.362	113.171	5.309	1.00	81.08	A16S
ATOM	25222	C1*	U	A1196	198.359	112.503	6.554	1.00	81.08	A16S
ATOM	25223	N1	U	A1196	197.437	111.356	6.552	1.00	122.97	A16S
ATOM	25224	C6	U	A1196	197.853	110.086	6.217	1.00	122.97	A16S
ATOM	25225	C2	U	A1196	196.130	111.591	6.960	1.00	122.97	A16S
ATOM	25226	O2	U	A1196	195.695	112.705	7.208	1.00	122.97	A16S
ATOM	25227	N3	U	A1196	195.349	110.473	7.066	1.00	122.97	A16S
ATOM	25228	C4	U	A1196	195.717	109.177	6.799	1.00	122.97	A16S
ATOM	25229	O4	U	A1196	194.924	108.266	7.049	1.00	122.97	A16S
ATOM	25230	C5	U	A1196	197.061	109.019	6.327	1.00	122.97	A16S
ATOM	25231	C2*	U	A1196	199.807	112.187	6.945	1.00	81.08	A16S
ATOM	25232	O2*	U	A1196	200.108	112.808	8.178	1.00	81.08	A16S
ATOM	25233	C3*	U	A1196	200.596	112.714	5.742	1.00	81.08	A16S
ATOM	25234	O3*	U	A1196	201.929	113.160	6.064	1.00	81.08	A16S
ATOM	25235	P	G	A1197	202.188	114.530	6.892	1.00	61.53	A16S
ATOM	25236	O1P	G	A1197	203.185	114.151	7.898	1.00	76.25	A16S
ATOM	25237	O2P	G	A1197	200.947	115.273	7.316	1.00	76.25	A16S
ATOM	25238	O5*	G	A1197	202.951	115.428	5.820	1.00	61.53	A16S
ATOM	25239	C5*	G	A1197	203.502	114.820	4.617	1.00	61.53	A16S
ATOM	25240	C4*	G	A1197	204.908	115.304	4.373	1.00	61.53	A16S
ATOM	25241	O4*	G	A1197	204.861	116.666	3.902	1.00	61.53	A16S
ATOM	25242	C1*	G	A1197	205.848	117.425	4.556	1.00	61.53	A16S
ATOM	25243	N9	G	A1197	205.148	118.445	5.326	1.00	76.25	A16S
ATOM	25244	C4	G	A1197	205.699	119.546	5.931	1.00	76.25	A16S
ATOM	25245	N3	G	A1197	207.002	119.898	5.908	1.00	76.25	A16S
ATOM	25246	C2	G	A1197	207.230	120.990	6.610	1.00	76.25	A16S
ATOM	25247	N2	G	A1197	208.468	121.481	6.698	1.00	76.25	A16S
ATOM	25248	N1	G	A1197	206.261	121.687	7.277	1.00	76.25	A16S
ATOM	25249	C6	G	A1197	204.911	121.352	7.307	1.00	76.25	A16S



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ATOM	25250	O6	G	A1197	204.113	122.063	7.933	1.00	76.25	A16S
ATOM	25251	C5	G	A1197	204.652	120.175	6.561	1.00	76.25	A16S
ATOM	25252	N7	G	A1197	203.462	119.494	6.339	1.00	76.25	A16S
ATOM	25253	C8	G	A1197	203.804	118.480	5.600	1.00	76.25	A16S
ATOM	25254	C2*	G	A1197	206.706	116.473	5.401	1.00	61.53	A16S
ATOM	25255	O2*	G	A1197	207.854	116.099	4.678	1.00	61.53	A16S
ATOM	25256	C3*	G	A1197	205.760	115.306	5.625	1.00	61.53	A16S
ATOM	25257	O3*	G	A1197	206.440	114.067	5.702	1.00	61.53	A16S
ATOM	25258	P	G	A1198	206.759	113.422	7.132	1.00	63.50	A16S
ATOM	25259	O1P	G	A1198	207.595	112.219	6.892	1.00	80.16	A16S
ATOM	25260	O2P	G	A1198	205.469	113.275	7.840	1.00	80.16	A16S
ATOM	25261	O5*	G	A1198	207.658	114.533	7.849	1.00	63.50	A16S
ATOM	25262	C5*	G	A1198	208.970	114.863	7.331	1.00	63.50	A16S
ATOM	25263	C4*	G	A1198	209.704	115.839	8.236	1.00	63.50	A16S
ATOM	25264	O4*	G	A1198	209.312	117.213	7.989	1.00	63.50	A16S
ATOM	25265	C1*	G	A1198	209.449	117.963	9.186	1.00	63.50	A16S
ATOM	25266	N9	G	A1198	208.157	118.552	9.529	1.00	80.16	A16S
ATOM	25267	C4	G	A1198	207.956	119.642	10.330	1.00	80.16	A16S
ATOM	25268	N3	G	A1198	208.918	120.384	10.899	1.00	80.16	A16S
ATOM	25269	C2	G	A1198	208.420	121.352	11.639	1.00	80.16	A16S
ATOM	25270	N2	G	A1198	209.248	122.197	12.269	1.00	80.16	A16S
ATOM	25271	N1	G	A1198	207.077	121.567	11.817	1.00	80.16	A16S
ATOM	25272	C6	G	A1198	206.065	120.806	11.249	1.00	80.16	A16S
ATOM	25273	O6	G	A1198	204.878	121.068	11.500	1.00	80.16	A16S
ATOM	25274	C5	G	A1198	206.591	119.776	10.434	1.00	80.16	A16S
ATOM	25275	N7	G	A1198	205.943	118.810	9.681	1.00	80.16	A16S
ATOM	25276	C8	G	A1198	206.910	118.112	9.156	1.00	80.16	A16S
ATOM	25277	C2*	G	A1198	209.963	117.019	10.277	1.00	63.50	A16S
ATOM	25278	O2*	G	A1198	211.359	117.163	10.387	1.00	63.50	A16S
ATOM	25279	C3*	G	A1198	209.568	115.652	9.733	1.00	63.50	A16S
ATOM	25280	O3*	G	A1198	210.442	114.635	10.181	1.00	63.50	A16S
ATOM	25281	P	U	A1199	209.975	113.652	11.359	1.00	65.13	A16S
ATOM	25282	O1P	U	A1199	210.834	112.443	11.297	1.00	74.96	A16S
ATOM	25283	O2P	U	A1199	208.493	113.503	11.272	1.00	74.96	A16S
ATOM	25284	O5*	U	A1199	210.342	114.467	12.680	1.00	65.13	A16S
ATOM	25285	C5*	U	A1199	211.715	114.796	12.995	1.00	65.13	A16S
ATOM	25286	C4*	U	A1199	211.767	115.886	14.042	1.00	65.13	A16S
ATOM	25287	O4*	U	A1199	211.129	117.072	13.520	1.00	65.13	A16S
ATOM	25288	C1*	U	A1199	210.429	117.728	14.552	1.00	65.13	A16S
ATOM	25289	N1	U	A1199	209.025	117.852	14.146	1.00	74.96	A16S
ATOM	25290	C6	U	A1199	208.324	116.792	13.608	1.00	74.96	A16S
ATOM	25291	C2	U	A1199	208.435	119.076	14.324	1.00	74.96	A16S
ATOM	25292	O2	U	A1199	209.033	120.031	14.795	1.00	74.96	A16S
ATOM	25293	N3	U	A1199	207.122	119.148	13.931	1.00	74.96	A16S
ATOM	25294	C4	U	A1199	206.362	118.137	13.387	1.00	74.96	A16S
ATOM	25295	O4	U	A1199	205.194	118.367	13.062	1.00	74.96	A16S
ATOM	25296	C5	U	A1199	207.050	116.891	13.232	1.00	74.96	A16S
ATOM	25297	C2*	U	A1199	210.627	116.948	15.851	1.00	65.13	A16S
ATOM	25298	O2*	U	A1199	211.616	117.589	16.624	1.00	65.13	A16S
ATOM	25299	C3*	U	A1199	211.035	115.576	15.336	1.00	65.13	A16S
ATOM	25300	O3*	U	A1199	211.922	114.942	16.228	1.00	65.13	A16S
ATOM	25301	P	C	A1200	211.506	113.561	16.894	1.00	96.59	A16S
ATOM	25302	O1P	C	A1200	212.736	112.963	17.458	1.00	97.01	A16S
ATOM	25303	O2P	C	A1200	210.705	112.789	15.922	1.00	97.01	A16S
ATOM	25304	O5*	C	A1200	210.531	114.022	18.057	1.00	96.59	A16S
ATOM	25305	C5*	C	A1200	210.334	113.209	19.224	1.00	96.59	A16S
ATOM	25306	C4*	C	A1200	209.395	113.903	20.174	1.00	96.59	A16S
ATOM	25307	O4*	C	A1200	208.135	114.107	19.505	1.00	96.59	A16S
ATOM	25308	C1*	C	A1200	207.119	114.173	20.469	1.00	96.59	A16S
ATOM	25309	N1	C	A1200	205.918	113.480	19.989	1.00	97.01	A16S
ATOM	25310	C6	C	A1200	205.969	112.606	18.944	1.00	97.01	A16S
ATOM	25311	C2	C	A1200	204.705	113.756	20.615	1.00	97.01	A16S
ATOM	25312	O2	C	A1200	204.688	114.534	21.581	1.00	97.01	A16S
ATOM	25313	N3	C	A1200	203.583	113.174	20.159	1.00	97.01	A16S
ATOM	25314	C4	C	A1200	203.639	112.341	19.127	1.00	97.01	A16S
ATOM	25315	N4	C	A1200	202.499	111.805	18.707	1.00	97.01	A16S
ATOM	25316	C5	C	A1200	204.862	112.023	18.483	1.00	97.01	A16S
ATOM	25317	C2*	C	A1200	207.683	113.733	21.819	1.00	96.59	A16S
ATOM	25318	O2*	C	A1200	207.810	114.904	22.600	1.00	96.59	A16S
ATOM	25319	C3*	C	A1200	209.049	113.154	21.452	1.00	96.59	A16S
ATOM	25320	O3*	C	A1200	209.930	113.572	22.497	1.00	96.59	A16S
ATOM	25321	P	A	A1201	211.295	112.777	22.804	1.00	61.52	A16S
ATOM	25322	O1P	A	A1201	211.161	111.373	22.288	1.00	68.59	A16S
ATOM	25323	O2P	A	A1201	211.552	113.001	24.263	1.00	68.59	A16S
ATOM	25324	O5*	A	A1201	212.414	113.621	22.017	1.00	61.52	A16S
ATOM	25325	C5*	A	A1201	212.618	115.034	22.334	1.00	61.52	A16S
ATOM	25326	C4*	A	A1201	213.607	115.704	21.385	1.00	61.52	A16S



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ATOM	25327	O4*	A	A1201	214.949	115.235	21.646	1.00	61.52	A16S
ATOM	25328	C1*	A	A1201	215.545	114.758	20.457	1.00	61.52	A16S
ATOM	25329	N9	A	A1201	216.091	113.434	20.753	1.00	68.59	A16S
ATOM	25330	C4	A	A1201	217.332	112.949	20.415	1.00	68.59	A16S
ATOM	25331	N3	A	A1201	218.311	113.597	19.759	1.00	68.59	A16S
ATOM	25332	C2	A	A1201	219.370	112.804	19.602	1.00	68.59	A16S
ATOM	25333	N1	A	A1201	219.547	111.529	19.997	1.00	68.59	A16S
ATOM	25334	C6	A	A1201	218.541	110.910	20.654	1.00	68.59	A16S
ATOM	25335	N6	A	A1201	218.709	109.645	21.040	1.00	68.59	A16S
ATOM	25336	C5	A	A1201	217.368	111.644	20.888	1.00	68.59	A16S
ATOM	25337	N7	A	A1201	216.179	111.318	21.522	1.00	68.59	A16S
ATOM	25338	C8	A	A1201	215.459	112.409	21.418	1.00	68.59	A16S
ATOM	25339	C2*	A	A1201	214.459	114.639	19.389	1.00	61.52	A16S
ATOM	25340	O2*	A	A1201	214.928	114.906	18.079	1.00	61.52	A16S
ATOM	25341	C3*	A	A1201	213.378	115.599	19.881	1.00	61.52	A16S
ATOM	25342	O3*	A	A1201	213.211	116.864	19.205	1.00	61.52	A16S
ATOM	25343	P	G	A1202	214.436	117.895	19.054	1.00	71.28	A16S
ATOM	25344	O1P	G	A1202	214.013	118.974	18.117	1.00	89.06	A16S
ATOM	25345	O2P	G	A1202	215.684	117.134	18.770	1.00	89.06	A16S
ATOM	25346	O5*	G	A1202	214.508	118.569	20.501	1.00	71.28	A16S
ATOM	25347	C5*	G	A1202	215.771	118.846	21.134	1.00	71.28	A16S
ATOM	25348	C4*	G	A1202	215.667	120.069	22.010	1.00	71.28	A16S
ATOM	25349	O4*	G	A1202	215.482	121.254	21.194	1.00	71.28	A16S
ATOM	25350	C1*	G	A1202	214.703	122.201	21.900	1.00	71.28	A16S
ATOM	25351	N9	G	A1202	213.529	122.550	21.102	1.00	89.06	A16S
ATOM	25352	C4	G	A1202	212.760	123.687	21.236	1.00	89.06	A16S
ATOM	25353	N3	G	A1202	212.958	124.672	22.131	1.00	89.06	A16S
ATOM	25354	C2	G	A1202	212.071	125.643	22.003	1.00	89.06	A16S
ATOM	25355	N2	G	A1202	212.140	126.714	22.807	1.00	89.06	A16S
ATOM	25356	N1	G	A1202	211.056	125.642	21.077	1.00	89.06	A16S
ATOM	25357	C6	G	A1202	210.824	124.639	20.149	1.00	89.06	A16S
ATOM	25358	O6	G	A1202	209.874	124.741	19.362	1.00	89.06	A16S
ATOM	25359	C5	G	A1202	211.783	123.588	20.268	1.00	89.06	A16S
ATOM	25360	N7	G	A1202	211.926	122.412	19.547	1.00	89.06	A16S
ATOM	25361	C8	G	A1202	212.971	121.828	20.076	1.00	89.06	A16S
ATOM	25362	C2*	G	A1202	214.348	121.589	23.254	1.00	71.28	A16S
ATOM	25363	O2*	G	A1202	215.281	122.057	24.203	1.00	71.28	A16S
ATOM	25364	C3*	G	A1202	214.505	120.097	22.981	1.00	71.28	A16S
ATOM	25365	O3*	G	A1202	214.771	119.345	24.162	1.00	71.28	A16S
ATOM	25366	P	C	A1203	213.540	118.704	24.980	1.00	69.43	A16S
ATOM	25367	O1P	C	A1203	214.028	118.223	26.300	1.00	89.18	A16S
ATOM	25368	O2P	C	A1203	212.819	117.764	24.091	1.00	89.18	A16S
ATOM	25369	O5*	C	A1203	212.589	119.955	25.236	1.00	69.43	A16S
ATOM	25370	C5*	C	A1203	213.048	121.058	26.031	1.00	69.43	A16S
ATOM	25371	C4*	C	A1203	211.997	122.134	26.101	1.00	69.43	A16S
ATOM	25372	O4*	C	A1203	211.916	122.867	24.849	1.00	69.43	A16S
ATOM	25373	C1*	C	A1203	210.575	123.273	24.627	1.00	69.43	A16S
ATOM	25374	N1	C	A1203	210.096	122.635	23.389	1.00	89.18	A16S
ATOM	25375	C6	C	A1203	210.677	121.487	22.925	1.00	89.18	A16S
ATOM	25376	C2	C	A1203	209.002	123.202	22.706	1.00	89.18	A16S
ATOM	25377	O2	C	A1203	208.499	124.263	23.127	1.00	89.18	A16S
ATOM	25378	N3	C	A1203	208.520	122.579	21.611	1.00	89.18	A16S
ATOM	25379	C4	C	A1203	209.076	121.443	21.190	1.00	89.18	A16S
ATOM	25380	N4	C	A1203	208.543	120.849	20.129	1.00	89.18	A16S
ATOM	25381	C5	C	A1203	210.200	120.863	21.845	1.00	89.18	A16S
ATOM	25382	C2*	C	A1203	209.737	122.796	25.820	1.00	69.43	A16S
ATOM	25383	O2*	C	A1203	209.520	123.843	26.751	1.00	69.43	A16S
ATOM	25384	C3*	C	A1203	210.584	121.641	26.344	1.00	69.43	A16S
ATOM	25385	O3*	C	A1203	210.351	121.302	27.705	1.00	69.43	A16S
ATOM	25386	P	A	A1204	209.384	120.060	28.058	1.00	86.66	A16S
ATOM	25387	O1P	A	A1204	209.502	119.805	29.518	1.00	100.17	A16S
ATOM	25388	O2P	A	A1204	209.648	118.941	27.105	1.00	100.17	A16S
ATOM	25389	O5*	A	A1204	207.937	120.662	27.757	1.00	86.66	A16S
ATOM	25390	C5*	A	A1204	207.564	121.983	28.224	1.00	86.66	A16S
ATOM	25391	C4*	A	A1204	206.258	122.406	27.597	1.00	86.66	A16S
ATOM	25392	O4*	A	A1204	206.470	122.691	26.191	1.00	86.66	A16S
ATOM	25393	C1*	A	A1204	205.390	122.170	25.426	1.00	86.66	A16S
ATOM	25394	N9	A	A1204	205.916	121.122	24.534	1.00	100.17	A16S
ATOM	25395	C4	A	A1204	205.214	120.446	23.561	1.00	100.17	A16S
ATOM	25396	N3	A	A1204	203.934	120.630	23.201	1.00	100.17	A16S
ATOM	25397	C2	A	A1204	203.587	119.772	22.252	1.00	100.17	A16S
ATOM	25398	N1	A	A1204	204.313	118.817	21.666	1.00	100.17	A16S
ATOM	25399	C6	A	A1204	205.594	118.653	22.051	1.00	100.17	A16S
ATOM	25400	N6	A	A1204	206.311	117.684	21.481	1.00	100.17	A16S
ATOM	25401	C5	A	A1204	206.092	119.510	23.042	1.00	100.17	A16S
ATOM	25402	N7	A	A1204	207.339	119.615	23.644	1.00	100.17	A16S
ATOM	25403	C8	A	A1204	207.187	120.585	24.513	1.00	100.17	A16S



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ATOM	25404	C2* A	A1204	204.339	121.636	26.409	1.00	86.66	A16S
ATOM	25405	O2* A	A1204	203.362	122.624	26.646	1.00	86.66	A16S
ATOM	25406	C3* A	A1204	205.189	121.324	27.634	1.00	86.66	A16S
ATOM	25407	O3* A	A1204	204.469	121.343	28.861	1.00	86.66	A16S
ATOM	25408	P U	A1205	204.126	119.956	29.609	1.00	80.95	A16S
ATOM	25409	O1P U	A1205	203.446	120.339	30.869	1.00	98.95	A16S
ATOM	25410	O2P U	A1205	205.311	119.058	29.663	1.00	98.95	A16S
ATOM	25411	O5* U	A1205	203.037	119.284	28.662	1.00	80.95	A16S
ATOM	25412	C5* U	A1205	201.782	119.944	28.439	1.00	80.95	A16S
ATOM	25413	C4* U	A1205	201.012	119.276	27.333	1.00	80.95	A16S
ATOM	25414	O4* U	A1205	201.689	119.481	26.068	1.00	80.95	A16S
ATOM	25415	C1* U	A1205	201.474	118.354	25.234	1.00	80.95	A16S
ATOM	25416	N1 U	A1205	202.772	117.722	24.938	1.00	98.95	A16S
ATOM	25417	C6 U	A1205	203.879	117.959	25.715	1.00	98.95	A16S
ATOM	25418	C2 U	A1205	202.835	116.841	23.867	1.00	98.95	A16S
ATOM	25419	O2 U	A1205	201.906	116.650	23.099	1.00	98.95	A16S
ATOM	25420	N3 U	A1205	204.032	116.195	23.721	1.00	98.95	A16S
ATOM	25421	C4 U	A1205	205.152	116.344	24.494	1.00	98.95	A16S
ATOM	25422	O4 U	A1205	206.076	115.548	24.358	1.00	98.95	A16S
ATOM	25423	C5 U	A1205	205.035	117.322	25.532	1.00	98.95	A16S
ATOM	25424	C2* U	A1205	200.558	117.385	25.991	1.00	80.95	A16S
ATOM	25425	O2* U	A1205	199.209	117.598	25.614	1.00	80.95	A16S
ATOM	25426	C3* U	A1205	200.826	117.771	27.438	1.00	80.95	A16S
ATOM	25427	O3* U	A1205	199.745	117.416	28.290	1.00	80.95	A16S
ATOM	25428	P G	A1206	199.600	115.895	28.806	1.00	76.32	A16S
ATOM	25429	O1P G	A1206	198.901	115.942	30.115	1.00	89.46	A16S
ATOM	25430	O2P G	A1206	200.914	115.204	28.702	1.00	89.46	A16S
ATOM	25431	O5* G	A1206	198.603	115.226	27.759	1.00	76.32	A16S
ATOM	25432	C5* G	A1206	197.223	115.640	27.674	1.00	76.32	A16S
ATOM	25433	C4* G	A1206	196.451	114.689	26.795	1.00	76.32	A16S
ATOM	25434	O4* G	A1206	196.842	114.879	25.413	1.00	76.32	A16S
ATOM	25435	C1* G	A1206	196.893	113.624	24.749	1.00	76.32	A16S
ATOM	25436	N9 G	A1206	198.272	113.396	24.321	1.00	89.46	A16S
ATOM	25437	C4 G	A1206	198.740	112.365	23.533	1.00	89.46	A16S
ATOM	25438	N3 G	A1206	197.995	111.394	22.963	1.00	89.46	A16S
ATOM	25439	C2 G	A1206	198.738	110.522	22.301	1.00	89.46	A16S
ATOM	25440	N2 G	A1206	198.163	109.491	21.662	1.00	89.46	A16S
ATOM	25441	N1 G	A1206	200.099	110.594	22.212	1.00	89.46	A16S
ATOM	25442	C6 G	A1206	200.887	111.583	22.787	1.00	89.46	A16S
ATOM	25443	O6 G	A1206	202.119	111.546	22.652	1.00	89.46	A16S
ATOM	25444	C5 G	A1206	200.103	112.531	23.492	1.00	89.46	A16S
ATOM	25445	N7 G	A1206	200.484	113.663	24.199	1.00	89.46	A16S
ATOM	25446	C8 G	A1206	199.367	114.147	24.662	1.00	89.46	A16S
ATOM	25447	C2* G	A1206	196.414	112.558	25.741	1.00	76.32	A16S
ATOM	25448	O2* G	A1206	195.034	112.299	25.570	1.00	76.32	A16S
ATOM	25449	C3* G	A1206	196.718	113.221	27.074	1.00	76.32	A16S
ATOM	25450	O3* G	A1206	195.897	112.730	28.111	1.00	76.32	A16S
ATOM	25451	P G	A1207	196.440	111.551	29.053	1.00	84.61	A16S
ATOM	25452	O1P G	A1207	195.355	111.232	30.011	1.00	91.56	A16S
ATOM	25453	O2P G	A1207	197.778	111.946	29.565	1.00	91.56	A16S
ATOM	25454	O5* G	A1207	196.611	110.307	28.069	1.00	84.61	A16S
ATOM	25455	C5* G	A1207	195.473	109.741	27.376	1.00	84.61	A16S
ATOM	25456	C4* G	A1207	195.916	108.644	26.430	1.00	84.61	A16S
ATOM	25457	O4* G	A1207	196.680	109.212	25.334	1.00	84.61	A16S
ATOM	25458	C1* G	A1207	197.713	108.312	24.951	1.00	84.61	A16S
ATOM	25459	N9 G	A1207	199.008	108.980	25.087	1.00	91.56	A16S
ATOM	25460	C4 G	A1207	200.204	108.533	24.584	1.00	91.56	A16S
ATOM	25461	N3 G	A1207	200.390	107.395	23.892	1.00	91.56	A16S
ATOM	25462	C2 G	A1207	201.643	107.245	23.524	1.00	91.56	A16S
ATOM	25463	N2 G	A1207	202.000	106.157	22.835	1.00	91.56	A16S
ATOM	25464	N1 G	A1207	202.638	108.148	23.805	1.00	91.56	A16S
ATOM	25465	C6 G	A1207	202.468	109.331	24.516	1.00	91.56	A16S
ATOM	25466	O6 G	A1207	203.429	110.090	24.699	1.00	91.56	A16S
ATOM	25467	C5 G	A1207	201.130	109.493	24.930	1.00	91.56	A16S
ATOM	25468	N7 G	A1207	200.534	110.514	25.654	1.00	91.56	A16S
ATOM	25469	C8 G	A1207	199.278	110.169	25.726	1.00	91.56	A16S
ATOM	25470	C2* G	A1207	197.601	107.063	25.822	1.00	84.61	A16S
ATOM	25471	O2* G	A1207	196.925	106.049	25.109	1.00	84.61	A16S
ATOM	25472	C3* G	A1207	196.836	107.596	27.031	1.00	84.61	A16S
ATOM	25473	O3* G	A1207	196.130	106.576	27.711	1.00	84.61	A16S
ATOM	25474	P C	A1208	196.925	105.627	28.725	1.00	77.56	A16S
ATOM	25475	O1P C	A1208	196.000	104.588	29.236	1.00	91.69	A16S
ATOM	25476	O2P C	A1208	197.651	106.506	29.681	1.00	91.69	A16S
ATOM	25477	O5* C	A1208	198.004	104.911	27.802	1.00	77.56	A16S
ATOM	25478	C5* C	A1208	197.629	103.872	26.894	1.00	77.56	A16S
ATOM	25479	C4* C	A1208	198.860	103.165	26.401	1.00	77.56	A16S
ATOM	25480	O4* C	A1208	199.649	104.088	25.612	1.00	77.56	A16S



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ATOM	25481	C1*	C	A1208	201.028	103.839	25.829	1.00	77.56	A16S
ATOM	25482	N1	C	A1208	201.659	105.075	26.329	1.00	91.69	A16S
ATOM	25483	C6	C	A1208	200.915	106.057	26.920	1.00	91.69	A16S
ATOM	25484	C2	C	A1208	203.043	105.227	26.192	1.00	91.69	A16S
ATOM	25485	O2	C	A1208	203.695	104.330	25.642	1.00	91.69	A16S
ATOM	25486	N3	C	A1208	203.634	106.346	26.661	1.00	91.69	A16S
ATOM	25487	C4	C	A1208	202.900	107.294	27.243	1.00	91.69	A16S
ATOM	25488	N4	C	A1208	203.526	108.378	27.698	1.00	91.69	A16S
ATOM	25489	C5	C	A1208	201.490	107.171	27.386	1.00	91.69	A16S
ATOM	25490	C2*	C	A1208	201.151	102.662	26.799	1.00	77.56	A16S
ATOM	25491	O2*	C	A1208	201.342	101.455	26.090	1.00	77.56	A16S
ATOM	25492	C3*	C	A1208	199.803	102.696	27.498	1.00	77.56	A16S
ATOM	25493	O3*	C	A1208	199.443	101.419	28.003	1.00	77.56	A16S
ATOM	25494	P	C	A1209	199.799	101.039	29.523	1.00	104.86	A16S
ATOM	25495	O1P	C	A1209	199.132	99.743	29.805	1.00	96.46	A16S
ATOM	25496	O2P	C	A1209	199.493	102.222	30.378	1.00	96.46	A16S
ATOM	25497	O5*	C	A1209	201.380	100.804	29.502	1.00	104.86	A16S
ATOM	25498	C5*	C	A1209	201.959	99.726	28.728	1.00	104.86	A16S
ATOM	25499	C4*	C	A1209	203.445	99.950	28.500	1.00	104.86	A16S
ATOM	25500	O4*	C	A1209	203.654	101.209	27.805	1.00	104.86	A16S
ATOM	25501	C1*	C	A1209	204.904	101.762	28.184	1.00	104.86	A16S
ATOM	25502	N1	C	A1209	204.689	103.094	28.780	1.00	96.46	A16S
ATOM	25503	C6	C	A1209	203.432	103.605	28.944	1.00	96.46	A16S
ATOM	25504	C2	C	A1209	205.810	103.833	29.192	1.00	96.46	A16S
ATOM	25505	O2	C	A1209	206.944	103.358	29.015	1.00	96.46	A16S
ATOM	25506	N3	C	A1209	205.631	105.042	29.768	1.00	96.46	A16S
ATOM	25507	C4	C	A1209	204.399	105.527	29.928	1.00	96.46	A16S
ATOM	25508	N4	C	A1209	204.272	106.729	30.500	1.00	96.46	A16S
ATOM	25509	C5	C	A1209	203.242	104.805	29.507	1.00	96.46	A16S
ATOM	25510	C2*	C	A1209	205.558	100.802	29.176	1.00	104.86	A16S
ATOM	25511	O2*	C	A1209	206.473	99.986	28.478	1.00	104.86	A16S
ATOM	25512	C3*	C	A1209	204.353	100.041	29.719	1.00	104.86	A16S
ATOM	25513	O3*	C	A1209	204.739	98.762	30.216	1.00	104.86	A16S
ATOM	25514	P	C	A1210	205.070	98.581	31.784	1.00	95.06	A16S
ATOM	25515	O1P	C	A1210	205.190	97.118	32.046	1.00	85.61	A16S
ATOM	25516	O2P	C	A1210	204.101	99.394	32.565	1.00	85.61	A16S
ATOM	25517	O5*	C	A1210	206.497	99.260	31.982	1.00	95.06	A16S
ATOM	25518	C5*	C	A1210	207.692	98.610	31.529	1.00	95.06	A16S
ATOM	25519	C4*	C	A1210	208.907	99.325	32.063	1.00	95.06	A16S
ATOM	25520	O4*	C	A1210	208.932	100.687	31.568	1.00	95.06	A16S
ATOM	25521	C1*	C	A1210	209.507	101.537	32.543	1.00	95.06	A16S
ATOM	25522	N1	C	A1210	208.567	102.631	32.821	1.00	85.61	A16S
ATOM	25523	C6	C	A1210	207.234	102.509	32.535	1.00	85.61	A16S
ATOM	25524	C2	C	A1210	209.065	103.811	33.381	1.00	85.61	A16S
ATOM	25525	O2	C	A1210	210.283	103.889	33.636	1.00	85.61	A16S
ATOM	25526	N3	C	A1210	208.213	104.831	33.629	1.00	85.61	A16S
ATOM	25527	C4	C	A1210	206.916	104.705	33.337	1.00	85.61	A16S
ATOM	25528	N4	C	A1210	206.117	105.740	33.589	1.00	85.61	A16S
ATOM	25529	C5	C	A1210	206.382	103.512	32.772	1.00	85.61	A16S
ATOM	25530	C2*	C	A1210	209.857	100.695	33.770	1.00	95.06	A16S
ATOM	25531	O2*	C	A1210	211.240	100.414	33.764	1.00	95.06	A16S
ATOM	25532	C3*	C	A1210	208.965	99.472	33.570	1.00	95.06	A16S
ATOM	25533	O3*	C	A1210	209.485	98.298	34.162	1.00	95.06	A16S
ATOM	25534	P	U	A1211	208.845	97.755	35.528	1.00	111.16	A16S
ATOM	25535	O1P	U	A1211	208.514	96.321	35.315	1.00	88.87	A16S
ATOM	25536	O2P	U	A1211	207.778	98.700	35.973	1.00	88.87	A16S
ATOM	25537	O5*	U	A1211	210.058	97.858	36.554	1.00	111.16	A16S
ATOM	25538	C5*	U	A1211	209.869	98.385	37.871	1.00	111.16	A16S
ATOM	25539	C4*	U	A1211	210.480	99.756	37.969	1.00	111.16	A16S
ATOM	25540	O4*	U	A1211	209.758	100.675	37.119	1.00	111.16	A16S
ATOM	25541	C1*	U	A1211	209.955	101.983	37.612	1.00	111.16	A16S
ATOM	25542	N1	U	A1211	208.770	102.827	37.357	1.00	88.87	A16S
ATOM	25543	C6	U	A1211	207.662	102.354	36.680	1.00	88.87	A16S
ATOM	25544	C2	U	A1211	208.818	104.156	37.791	1.00	88.87	A16S
ATOM	25545	O2	U	A1211	209.748	104.619	38.438	1.00	88.87	A16S
ATOM	25546	N3	U	A1211	207.731	104.924	37.447	1.00	88.87	A16S
ATOM	25547	C4	U	A1211	206.613	104.523	36.752	1.00	88.87	A16S
ATOM	25548	O4	U	A1211	205.727	105.350	36.508	1.00	88.87	A16S
ATOM	25549	C5	U	A1211	206.611	103.137	36.370	1.00	88.87	A16S
ATOM	25550	C2*	U	A1211	210.464	101.887	39.054	1.00	111.16	A16S
ATOM	25551	O2*	U	A1211	211.797	102.350	39.102	1.00	111.16	A16S
ATOM	25552	C3*	U	A1211	210.380	100.391	39.343	1.00	111.16	A16S
ATOM	25553	O3*	U	A1211	211.502	100.007	40.131	1.00	111.16	A16S
ATOM	25554	P	U	A1212	211.403	98.731	41.098	1.00	144.81	A16S
ATOM	25555	O1P	U	A1212	209.970	98.535	41.439	1.00	191.29	A16S
ATOM	25556	O2P	U	A1212	212.393	98.935	42.184	1.00	191.29	A16S
ATOM	25557	O5*	U	A1212	211.852	97.511	40.174	1.00	144.81	A16S



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ATOM	25558	C5* U	A1212	212.884	96.594	40.587	1.00144.81	A16S
ATOM	25559	C4* U	A1212	214.240	97.219	40.366	1.00144.81	A16S
ATOM	25560	O4* U	A1212	214.576	98.076	41.488	1.00144.81	A16S
ATOM	25561	C1* U	A1212	215.976	98.079	41.684	1.00144.81	A16S
ATOM	25562	N1 U	A1212	216.269	97.763	43.091	1.00191.29	A16S
ATOM	25563	C6 U	A1212	216.629	96.493	43.490	1.00191.29	A16S
ATOM	25564	C2 U	A1212	216.187	98.799	44.010	1.00191.29	A16S
ATOM	25565	O2 U	A1212	215.857	99.935	43.709	1.00191.29	A16S
ATOM	25566	N3 U	A1212	216.504	98.456	45.297	1.00191.29	A16S
ATOM	25567	C4 U	A1212	216.882	97.213	45.756	1.00191.29	A16S
ATOM	25568	O4 U	A1212	217.157	97.070	46.946	1.00191.29	A16S
ATOM	25569	C5 U	A1212	216.931	96.193	44.754	1.00191.29	A16S
ATOM	25570	C2* U	A1212	216.603	97.142	40.651	1.00144.81	A16S
ATOM	25571	O2* U	A1212	217.100	97.948	39.606	1.00144.81	A16S
ATOM	25572	C3* U	A1212	215.412	96.264	40.256	1.00144.81	A16S
ATOM	25573	O3* U	A1212	215.450	95.770	38.916	1.00144.81	A16S
ATOM	25574	P A	A1213	216.817	95.191	38.300	1.00143.33	A16S
ATOM	25575	O1P A	A1213	216.427	94.308	37.172	1.00129.86	A16S
ATOM	25576	O2P A	A1213	217.642	94.643	39.411	1.00129.86	A16S
ATOM	25577	O5* A	A1213	217.548	96.494	37.732	1.00143.33	A16S
ATOM	25578	C5* A	A1213	217.360	96.958	36.364	1.00143.33	A16S
ATOM	25579	C4* A	A1213	216.019	97.648	36.211	1.00143.33	A16S
ATOM	25580	O4* A	A1213	215.772	98.518	37.329	1.00143.33	A16S
ATOM	25581	C1* A	A1213	214.780	99.440	36.958	1.00143.33	A16S
ATOM	25582	N9 A	A1213	214.991	100.695	37.669	1.00129.86	A16S
ATOM	25583	C4 A	A1213	214.308	101.866	37.458	1.00129.86	A16S
ATOM	25584	N3 A	A1213	213.366	102.101	36.530	1.00129.86	A16S
ATOM	25585	C2 A	A1213	212.914	103.344	36.632	1.00129.86	A16S
ATOM	25586	N1 A	A1213	213.266	104.308	37.495	1.00129.86	A16S
ATOM	25587	C6 A	A1213	214.216	104.036	38.414	1.00129.86	A16S
ATOM	25588	N6 A	A1213	214.570	104.996	39.273	1.00129.86	A16S
ATOM	25589	C5 A	A1213	214.778	102.753	38.407	1.00129.86	A16S
ATOM	25590	N7 A	A1213	215.761	102.161	39.187	1.00129.86	A16S
ATOM	25591	C8 A	A1213	215.856	100.947	38.704	1.00129.86	A16S
ATOM	25592	C2* A	A1213	214.712	99.497	35.431	1.00143.33	A16S
ATOM	25593	O2* A	A1213	213.437	99.035	35.042	1.00143.33	A16S
ATOM	25594	C3* A	A1213	215.840	98.556	35.003	1.00143.33	A16S
ATOM	25595	O3* A	A1213	215.402	97.785	33.893	1.00143.33	A16S
ATOM	25596	P C	A1214	215.968	98.092	32.425	1.00100.41	A16S
ATOM	25597	O1P C	A1214	215.168	97.253	31.492	1.00 88.75	A16S
ATOM	25598	O2P C	A1214	217.447	97.937	32.480	1.00 88.75	A16S
ATOM	25599	O5* C	A1214	215.592	99.622	32.157	1.00100.41	A16S
ATOM	25600	C5* C	A1214	216.479	100.507	31.416	1.00100.41	A16S
ATOM	25601	C4* C	A1214	215.682	101.575	30.693	1.00100.41	A16S
ATOM	25602	O4* C	A1214	214.844	100.936	29.712	1.00100.41	A16S
ATOM	25603	C1* C	A1214	213.693	101.721	29.507	1.00100.41	A16S
ATOM	25604	N1 C	A1214	212.527	100.844	29.301	1.00 88.75	A16S
ATOM	25605	C6 C	A1214	212.666	99.483	29.305	1.00 88.75	A16S
ATOM	25606	C2 C	A1214	211.269	101.428	29.049	1.00 88.75	A16S
ATOM	25607	O2 C	A1214	211.148	102.660	29.124	1.00 88.75	A16S
ATOM	25608	N3 C	A1214	210.221	100.632	28.741	1.00 88.75	A16S
ATOM	25609	C4 C	A1214	210.380	99.305	28.707	1.00 88.75	A16S
ATOM	25610	N4 C	A1214	209.326	98.557	28.369	1.00 88.75	A16S
ATOM	25611	C5 C	A1214	211.632	98.684	29.013	1.00 88.75	A16S
ATOM	25612	C2* C	A1214	213.609	102.794	30.593	1.00100.41	A16S
ATOM	25613	O2* C	A1214	213.815	104.061	29.998	1.00100.41	A16S
ATOM	25614	C3* C	A1214	214.717	102.376	31.562	1.00100.41	A16S
ATOM	25615	O3* C	A1214	215.280	103.573	32.135	1.00100.41	A16S
ATOM	25616	P G	A1215	216.697	104.171	31.612	1.00105.49	A16S
ATOM	25617	O1P G	A1215	216.558	104.491	30.161	1.00105.35	A16S
ATOM	25618	O2P G	A1215	217.816	103.302	32.073	1.00105.35	A16S
ATOM	25619	O5* G	A1215	216.813	105.565	32.380	1.00105.49	A16S
ATOM	25620	C5* G	A1215	215.667	106.439	32.494	1.00105.49	A16S
ATOM	25621	C4* G	A1215	215.429	106.821	33.941	1.00105.49	A16S
ATOM	25622	O4* G	A1215	215.074	105.655	34.726	1.00105.49	A16S
ATOM	25623	C1* G	A1215	215.607	105.778	36.036	1.00105.49	A16S
ATOM	25624	N9 G	A1215	216.421	104.595	36.329	1.00105.35	A16S
ATOM	25625	C4 G	A1215	217.315	104.447	37.367	1.00105.35	A16S
ATOM	25626	N3 G	A1215	217.611	105.380	38.295	1.00105.35	A16S
ATOM	25627	C2 G	A1215	218.486	104.933	39.179	1.00105.35	A16S
ATOM	25628	N2 G	A1215	218.881	105.726	40.183	1.00105.35	A16S
ATOM	25629	N1 G	A1215	219.038	103.674	39.148	1.00105.35	A16S
ATOM	25630	C6 G	A1215	218.753	102.696	38.199	1.00105.35	A16S
ATOM	25631	O6 G	A1215	219.312	101.587	38.262	1.00105.35	A16S
ATOM	25632	C5 G	A1215	217.805	103.159	37.248	1.00105.35	A16S
ATOM	25633	N7 G	A1215	217.238	102.512	36.157	1.00105.35	A16S
ATOM	25634	C8 G	A1215	216.432	103.400	35.639	1.00105.35	A16S



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ATOM	25635	C2*	G	A1215	216.334	107.122	36.124	1.00105.49	A16S
ATOM	25636	O2*	G	A1215	215.462	108.066	36.715	1.00105.49	A16S
ATOM	25637	C3*	G	A1215	216.626	107.412	34.656	1.00105.49	A16S
ATOM	25638	O3*	G	A1215	216.717	108.790	34.362	1.00105.49	A16S
ATOM	25639	P	G	A1216	218.094	109.378	33.800	1.00 85.08	A16S
ATOM	25640	O1P	G	A1216	217.893	110.833	33.524	1.00111.63	A16S
ATOM	25641	O2P	G	A1216	218.566	108.477	32.716	1.00111.63	A16S
ATOM	25642	O5*	G	A1216	219.072	109.224	35.043	1.00 85.08	A16S
ATOM	25643	C5*	G	A1216	218.774	109.896	36.276	1.00 85.08	A16S
ATOM	25644	C4*	G	A1216	219.786	109.543	37.328	1.00 85.08	A16S
ATOM	25645	O4*	G	A1216	219.549	108.213	37.847	1.00 85.08	A16S
ATOM	25646	C1*	G	A1216	220.783	107.645	38.248	1.00 85.08	A16S
ATOM	25647	N9	G	A1216	220.936	106.336	37.620	1.00111.63	A16S
ATOM	25648	C4	G	A1216	221.802	105.345	38.013	1.00111.63	A16S
ATOM	25649	N3	G	A1216	222.687	105.423	39.027	1.00111.63	A16S
ATOM	25650	C2	G	A1216	223.366	104.302	39.176	1.00111.63	A16S
ATOM	25651	N2	G	A1216	224.293	104.214	40.137	1.00111.63	A16S
ATOM	25652	N1	G	A1216	223.187	103.188	38.393	1.00111.63	A16S
ATOM	25653	C6	G	A1216	222.278	103.086	37.342	1.00111.63	A16S
ATOM	25654	O6	G	A1216	222.183	102.029	36.700	1.00111.63	A16S
ATOM	25655	C5	G	A1216	221.554	104.286	37.167	1.00111.63	A16S
ATOM	25656	N7	G	A1216	220.571	104.612	36.245	1.00111.63	A16S
ATOM	25657	C8	G	A1216	220.238	105.837	36.548	1.00111.63	A16S
ATOM	25658	C2*	G	A1216	221.896	108.639	37.915	1.00 85.08	A16S
ATOM	25659	O2*	G	A1216	222.201	109.361	39.089	1.00 85.08	A16S
ATOM	25660	C3*	G	A1216	221.226	109.514	36.863	1.00 85.08	A16S
ATOM	25661	O3*	G	A1216	221.770	110.819	36.794	1.00 85.08	A16S
ATOM	25662	P	C	A1217	223.124	111.058	35.972	1.00110.12	A16S
ATOM	25663	O1P	C	A1217	223.330	112.527	35.850	1.00 90.06	A16S
ATOM	25664	O2P	C	A1217	223.095	110.210	34.757	1.00 90.06	A16S
ATOM	25665	O5*	C	A1217	224.243	110.446	36.918	1.00110.12	A16S
ATOM	25666	C5*	C	A1217	224.503	111.017	38.207	1.00110.12	A16S
ATOM	25667	C4*	C	A1217	225.618	110.269	38.887	1.00110.12	A16S
ATOM	25668	O4*	C	A1217	225.181	108.932	39.238	1.00110.12	A16S
ATOM	25669	C1*	C	A1217	226.271	108.034	39.132	1.00110.12	A16S
ATOM	25670	N1	C	A1217	225.915	106.938	38.213	1.00 90.06	A16S
ATOM	25671	C6	C	A1217	224.898	107.064	37.302	1.00 90.06	A16S
ATOM	25672	C2	C	A1217	226.647	105.755	38.290	1.00 90.06	A16S
ATOM	25673	O2	C	A1217	227.563	105.672	39.126	1.00 90.06	A16S
ATOM	25674	N3	C	A1217	226.343	104.731	37.457	1.00 90.06	A16S
ATOM	25675	C4	C	A1217	225.355	104.859	36.572	1.00 90.06	A16S
ATOM	25676	N4	C	A1217	225.097	103.821	35.771	1.00 90.06	A16S
ATOM	25677	C5	C	A1217	224.587	106.058	36.469	1.00 90.06	A16S
ATOM	25678	C2*	C	A1217	227.494	108.826	38.673	1.00110.12	A16S
ATOM	25679	O2*	C	A1217	228.273	109.151	39.803	1.00110.12	A16S
ATOM	25680	C3*	C	A1217	226.846	110.045	38.030	1.00110.12	A16S
ATOM	25681	O3*	C	A1217	227.683	111.183	38.021	1.00110.12	A16S
ATOM	25682	P	C	A1218	228.662	111.420	36.774	1.00 89.68	A16S
ATOM	25683	O1P	C	A1218	229.375	112.710	37.000	1.00 88.34	A16S
ATOM	25684	O2P	C	A1218	227.888	111.212	35.515	1.00 88.34	A16S
ATOM	25685	O5*	C	A1218	229.714	110.238	36.923	1.00 89.68	A16S
ATOM	25686	C5*	C	A1218	230.514	110.139	38.102	1.00 89.68	A16S
ATOM	25687	C4*	C	A1218	231.422	108.949	38.015	1.00 89.68	A16S
ATOM	25688	O4*	C	A1218	230.652	107.727	38.063	1.00 89.68	A16S
ATOM	25689	C1*	C	A1218	231.316	106.733	37.311	1.00 89.68	A16S
ATOM	25690	N1	C	A1218	230.377	106.165	36.338	1.00 88.34	A16S
ATOM	25691	C6	C	A1218	229.369	106.915	35.795	1.00 88.34	A16S
ATOM	25692	C2	C	A1218	230.534	104.828	35.977	1.00 88.34	A16S
ATOM	25693	O2	C	A1218	231.463	104.179	36.484	1.00 88.34	A16S
ATOM	25694	N3	C	A1218	229.676	104.273	35.090	1.00 88.34	A16S
ATOM	25695	C4	C	A1218	228.688	105.007	34.573	1.00 88.34	A16S
ATOM	25696	N4	C	A1218	227.853	104.412	33.712	1.00 88.34	A16S
ATOM	25697	C5	C	A1218	228.509	106.382	34.917	1.00 88.34	A16S
ATOM	25698	C2*	C	A1218	232.562	107.357	36.677	1.00 89.68	A16S
ATOM	25699	O2*	C	A1218	233.683	107.035	37.466	1.00 89.68	A16S
ATOM	25700	C3*	C	A1218	232.236	108.842	36.741	1.00 89.68	A16S
ATOM	25701	O3*	C	A1218	233.401	109.637	36.844	1.00 89.68	A16S
ATOM	25702	P	U	A1219	234.210	110.031	35.522	1.00 75.85	A16S
ATOM	25703	O1P	U	A1219	235.231	111.034	35.928	1.00106.83	A16S
ATOM	25704	O2P	U	A1219	233.241	110.372	34.451	1.00106.83	A16S
ATOM	25705	O5*	U	A1219	234.954	108.672	35.150	1.00 75.85	A16S
ATOM	25706	C5*	U	A1219	236.007	108.159	35.990	1.00 75.85	A16S
ATOM	25707	C4*	U	A1219	236.424	106.777	35.538	1.00 75.85	A16S
ATOM	25708	O4*	U	A1219	235.304	105.861	35.685	1.00 75.85	A16S
ATOM	25709	C1*	U	A1219	235.303	104.917	34.619	1.00 75.85	A16S
ATOM	25710	N1	U	A1219	234.118	105.177	33.778	1.00106.83	A16S
ATOM	25711	C6	U	A1219	233.687	106.474	33.537	1.00106.83	A16S



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ATOM	25712	C2	U	A1219	233.452	104.095	33.216	1.00106.83	A16S
ATOM	25713	O2	U	A1219	233.796	102.933	33.395	1.00106.83	A16S
ATOM	25714	N3	U	A1219	232.370	104.431	32.428	1.00106.83	A16S
ATOM	25715	C4	U	A1219	231.903	105.712	32.142	1.00106.83	A16S
ATOM	25716	O4	U	A1219	230.962	105.862	31.361	1.00106.83	A16S
ATOM	25717	C5	U	A1219	232.639	106.764	32.760	1.00106.83	A16S
ATOM	25718	C2*	U	A1219	236.584	105.154	33.821	1.00 75.85	A16S
ATOM	25719	O2*	U	A1219	237.637	104.354	34.327	1.00 75.85	A16S
ATOM	25720	C3*	U	A1219	236.820	106.633	34.078	1.00 75.85	A16S
ATOM	25721	O3*	U	A1219	238.144	107.027	33.782	1.00 75.85	A16S
ATOM	25722	P	G	A1220	238.473	107.598	32.318	1.00 95.29	A16S
ATOM	25723	O1P	G	A1220	239.927	107.901	32.290	1.00 83.61	A16S
ATOM	25724	O2P	G	A1220	237.489	108.681	32.027	1.00 83.61	A16S
ATOM	25725	O5*	G	A1220	238.208	106.351	31.354	1.00 95.29	A16S
ATOM	25726	C5*	G	A1220	239.151	105.264	31.320	1.00 95.29	A16S
ATOM	25727	C4*	G	A1220	238.699	104.157	30.390	1.00 95.29	A16S
ATOM	25728	O4*	G	A1220	237.544	103.459	30.926	1.00 95.29	A16S
ATOM	25729	C1*	G	A1220	236.776	102.919	29.856	1.00 95.29	A16S
ATOM	25730	N9	G	A1220	235.474	103.581	29.814	1.00 83.61	A16S
ATOM	25731	C4	G	A1220	234.353	103.120	29.164	1.00 83.61	A16S
ATOM	25732	N3	G	A1220	234.246	101.951	28.498	1.00 83.61	A16S
ATOM	25733	C2	G	A1220	233.062	101.818	27.925	1.00 83.61	A16S
ATOM	25734	N2	G	A1220	232.793	100.732	27.205	1.00 83.61	A16S
ATOM	25735	N1	G	A1220	232.060	102.743	28.011	1.00 83.61	A16S
ATOM	25736	C6	G	A1220	232.146	103.949	28.694	1.00 83.61	A16S
ATOM	25737	O6	G	A1220	231.183	104.718	28.702	1.00 83.61	A16S
ATOM	25738	C5	G	A1220	233.412	104.116	29.306	1.00 83.61	A16S
ATOM	25739	N7	G	A1220	233.916	105.171	30.058	1.00 83.61	A16S
ATOM	25740	C8	G	A1220	235.135	104.805	30.350	1.00 83.61	A16S
ATOM	25741	C2*	G	A1220	237.511	103.262	28.563	1.00 95.29	A16S
ATOM	25742	O2*	G	A1220	238.371	102.200	28.196	1.00 95.29	A16S
ATOM	25743	C3*	G	A1220	238.276	104.509	28.976	1.00 95.29	A16S
ATOM	25744	O3*	G	A1220	239.343	104.754	28.087	1.00 95.29	A16S
ATOM	25745	P	G	A1221	239.053	105.552	26.725	1.00 93.17	A16S
ATOM	25746	O1P	G	A1221	240.358	105.685	26.028	1.00 71.37	A16S
ATOM	25747	O2P	G	A1221	238.261	106.781	27.054	1.00 71.37	A16S
ATOM	25748	O5*	G	A1221	238.147	104.538	25.888	1.00 93.17	A16S
ATOM	25749	C5*	G	A1221	238.710	103.310	25.367	1.00 93.17	A16S
ATOM	25750	C4*	G	A1221	237.669	102.513	24.607	1.00 93.17	A16S
ATOM	25751	O4*	G	A1221	236.591	102.147	25.510	1.00 93.17	A16S
ATOM	25752	C1*	G	A1221	235.351	102.173	24.819	1.00 93.17	A16S
ATOM	25753	N9	G	A1221	234.593	103.318	25.305	1.00 71.37	A16S
ATOM	25754	C4	G	A1221	233.266	103.599	25.061	1.00 71.37	A16S
ATOM	25755	N3	G	A1221	232.407	102.832	24.366	1.00 71.37	A16S
ATOM	25756	C2	G	A1221	231.216	103.395	24.259	1.00 71.37	A16S
ATOM	25757	N2	G	A1221	230.238	102.785	23.569	1.00 71.37	A16S
ATOM	25758	N1	G	A1221	230.892	104.602	24.808	1.00 71.37	A16S
ATOM	25759	C6	G	A1221	231.760	105.409	25.528	1.00 71.37	A16S
ATOM	25760	O6	G	A1221	231.366	106.499	25.969	1.00 71.37	A16S
ATOM	25761	C5	G	A1221	233.042	104.824	25.640	1.00 71.37	A16S
ATOM	25762	N7	G	A1221	234.191	105.293	26.260	1.00 71.37	A16S
ATOM	25763	C8	G	A1221	235.079	104.363	26.048	1.00 71.37	A16S
ATOM	25764	C2*	G	A1221	235.664	102.429	23.349	1.00 93.17	A16S
ATOM	25765	O2*	G	A1221	235.784	101.211	22.645	1.00 93.17	A16S
ATOM	25766	C3*	G	A1221	236.965	103.210	23.452	1.00 93.17	A16S
ATOM	25767	O3*	G	A1221	237.683	103.216	22.225	1.00 93.17	A16S
ATOM	25768	P	G	A1222	237.353	104.348	21.129	1.00 78.44	A16S
ATOM	25769	O1P	G	A1222	238.142	104.041	19.909	1.00105.30	A16S
ATOM	25770	O2P	G	A1222	237.486	105.680	21.763	1.00105.30	A16S
ATOM	25771	O5*	G	A1222	235.803	104.136	20.804	1.00 78.44	A16S
ATOM	25772	C5*	G	A1222	235.307	102.874	20.288	1.00 78.44	A16S
ATOM	25773	C4*	G	A1222	233.834	102.974	19.947	1.00 78.44	A16S
ATOM	25774	O4*	G	A1222	233.047	103.150	21.156	1.00 78.44	A16S
ATOM	25775	C1*	G	A1222	231.902	103.948	20.879	1.00 78.44	A16S
ATOM	25776	N9	G	A1222	231.968	105.179	21.670	1.00105.30	A16S
ATOM	25777	C4	G	A1222	230.962	106.116	21.805	1.00105.30	A16S
ATOM	25778	N3	G	A1222	229.733	106.045	21.252	1.00105.30	A16S
ATOM	25779	C2	G	A1222	229.001	107.108	21.539	1.00105.30	A16S
ATOM	25780	N2	G	A1222	227.753	107.207	21.055	1.00105.30	A16S
ATOM	25781	N1	G	A1222	229.436	108.152	22.317	1.00105.30	A16S
ATOM	25782	C6	G	A1222	230.693	108.246	22.902	1.00105.30	A16S
ATOM	25783	O6	G	A1222	230.980	109.232	23.594	1.00105.30	A16S
ATOM	25784	C5	G	A1222	231.497	107.117	22.592	1.00105.30	A16S
ATOM	25785	N7	G	A1222	232.804	106.816	22.955	1.00105.30	A16S
ATOM	25786	C8	G	A1222	233.038	105.657	22.394	1.00105.30	A16S
ATOM	25787	C2*	G	A1222	231.942	104.290	19.393	1.00 78.44	A16S
ATOM	25788	O2*	G	A1222	231.177	103.372	18.647	1.00 78.44	A16S



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ATOM	25789	C3*	G	A1222	233.423	104.161	19.099	1.00	78.44	A16S
ATOM	25790	O3*	G	A1222	233.665	104.026	17.726	1.00	78.44	A16S
ATOM	25791	P	C	A1223	234.060	105.333	16.898	1.00	70.76	A16S
ATOM	25792	O1P	C	A1223	234.414	104.900	15.531	1.00	70.55	A16S
ATOM	25793	O2P	C	A1223	235.051	106.087	17.724	1.00	70.55	A16S
ATOM	25794	O5*	C	A1223	232.719	106.199	16.847	1.00	70.76	A16S
ATOM	25795	C5*	C	A1223	231.490	105.626	16.375	1.00	70.76	A16S
ATOM	25796	C4*	C	A1223	230.370	106.640	16.426	1.00	70.76	A16S
ATOM	25797	O4*	C	A1223	230.078	107.007	17.794	1.00	70.76	A16S
ATOM	25798	C1*	C	A1223	229.543	108.319	17.823	1.00	70.76	A16S
ATOM	25799	N1	C	A1223	230.270	109.128	18.818	1.00	70.55	A16S
ATOM	25800	C6	C	A1223	231.590	108.897	19.082	1.00	70.55	A16S
ATOM	25801	C2	C	A1223	229.580	110.153	19.498	1.00	70.55	A16S
ATOM	25802	O2	C	A1223	228.381	110.366	19.234	1.00	70.55	A16S
ATOM	25803	N3	C	A1223	230.237	110.886	20.418	1.00	70.55	A16S
ATOM	25804	C4	C	A1223	231.522	110.645	20.671	1.00	70.55	A16S
ATOM	25805	N4	C	A1223	232.124	111.396	21.592	1.00	70.55	A16S
ATOM	25806	C5	C	A1223	232.247	109.624	19.992	1.00	70.55	A16S
ATOM	25807	C2*	C	A1223	229.617	108.896	16.410	1.00	70.76	A16S
ATOM	25808	O2*	C	A1223	228.346	108.859	15.794	1.00	70.76	A16S
ATOM	25809	C3*	C	A1223	230.616	107.966	15.738	1.00	70.76	A16S
ATOM	25810	O3*	C	A1223	230.329	107.903	14.361	1.00	70.76	A16S
ATOM	25811	P	G	A1224	230.813	109.092	13.410	1.00	69.99	A16S
ATOM	25812	O1P	G	A1224	230.339	110.377	13.977	1.00	79.98	A16S
ATOM	25813	O2P	G	A1224	230.450	108.741	12.025	1.00	79.98	A16S
ATOM	25814	O5*	G	A1224	232.400	109.038	13.556	1.00	69.99	A16S
ATOM	25815	C5*	G	A1224	233.121	107.776	13.664	1.00	69.99	A16S
ATOM	25816	C4*	G	A1224	234.602	108.007	13.427	1.00	69.99	A16S
ATOM	25817	O4*	G	A1224	235.041	109.100	14.253	1.00	69.99	A16S
ATOM	25818	C1*	G	A1224	236.419	108.971	14.496	1.00	69.99	A16S
ATOM	25819	N9	G	A1224	236.712	109.581	15.785	1.00	79.98	A16S
ATOM	25820	C4	G	A1224	237.441	110.725	15.956	1.00	79.98	A16S
ATOM	25821	N3	G	A1224	238.030	111.431	14.973	1.00	79.98	A16S
ATOM	25822	C2	G	A1224	238.632	112.509	15.431	1.00	79.98	A16S
ATOM	25823	N2	G	A1224	239.255	113.328	14.577	1.00	79.98	A16S
ATOM	25824	N1	G	A1224	238.664	112.866	16.755	1.00	79.98	A16S
ATOM	25825	C6	G	A1224	238.063	112.157	17.789	1.00	79.98	A16S
ATOM	25826	O6	G	A1224	238.146	112.579	18.949	1.00	79.98	A16S
ATOM	25827	C5	G	A1224	237.405	110.988	17.305	1.00	79.98	A16S
ATOM	25828	N7	G	A1224	236.683	110.011	17.977	1.00	79.98	A16S
ATOM	25829	C8	G	A1224	236.299	109.190	17.035	1.00	79.98	A16S
ATOM	25830	C2*	G	A1224	236.862	107.532	14.218	1.00	69.99	A16S
ATOM	25831	O2*	G	A1224	237.948	107.546	13.306	1.00	69.99	A16S
ATOM	25832	C3*	G	A1224	235.549	106.860	13.763	1.00	69.99	A16S
ATOM	25833	O3*	G	A1224	235.622	105.893	12.678	1.00	69.99	A16S
ATOM	25834	P	A	A1225	236.118	106.327	11.183	1.00	77.85	A16S
ATOM	25835	O1P	A	A1225	236.530	107.755	11.126	1.00	83.83	A16S
ATOM	25836	O2P	A	A1225	235.092	105.831	10.220	1.00	83.83	A16S
ATOM	25837	O5*	A	A1225	237.431	105.459	10.969	1.00	77.85	A16S
ATOM	25838	C5*	A	A1225	237.340	104.174	10.360	1.00	77.85	A16S
ATOM	25839	C4*	A	A1225	237.478	103.089	11.394	1.00	77.85	A16S
ATOM	25840	O4*	A	A1225	236.357	103.115	12.321	1.00	77.85	A16S
ATOM	25841	C1*	A	A1225	235.738	101.841	12.373	1.00	77.85	A16S
ATOM	25842	N9	A	A1225	234.288	102.054	12.436	1.00	83.83	A16S
ATOM	25843	C4	A	A1225	233.303	101.517	11.632	1.00	83.83	A16S
ATOM	25844	N3	A	A1225	233.450	100.652	10.614	1.00	83.83	A16S
ATOM	25845	C2	A	A1225	232.274	100.380	10.052	1.00	83.83	A16S
ATOM	25846	N1	A	A1225	231.063	100.837	10.363	1.00	83.83	A16S
ATOM	25847	C6	A	A1225	230.950	101.702	11.391	1.00	83.83	A16S
ATOM	25848	N6	A	A1225	229.742	102.169	11.702	1.00	83.83	A16S
ATOM	25849	C5	A	A1225	232.118	102.067	12.072	1.00	83.83	A16S
ATOM	25850	N7	A	A1225	232.341	102.913	13.144	1.00	83.83	A16S
ATOM	25851	C8	A	A1225	233.637	102.866	13.321	1.00	83.83	A16S
ATOM	25852	C2*	A	A1225	236.166	101.085	11.117	1.00	77.85	A16S
ATOM	25853	O2*	A	A1225	236.241	99.695	11.356	1.00	77.85	A16S
ATOM	25854	C3*	A	A1225	237.525	101.693	10.799	1.00	77.85	A16S
ATOM	25855	O3*	A	A1225	238.595	100.969	11.339	1.00	77.85	A16S
ATOM	25856	P	C	A1226	239.869	100.712	10.421	1.00	78.94	A16S
ATOM	25857	O1P	C	A1226	240.744	99.719	11.093	1.00	76.89	A16S
ATOM	25858	O2P	C	A1226	240.421	102.044	10.030	1.00	76.89	A16S
ATOM	25859	O5*	C	A1226	239.233	100.015	9.143	1.00	78.94	A16S
ATOM	25860	C5*	C	A1226	239.382	100.585	7.836	1.00	78.94	A16S
ATOM	25861	C4*	C	A1226	238.528	99.830	6.867	1.00	78.94	A16S
ATOM	25862	O4*	C	A1226	237.197	99.796	7.411	1.00	78.94	A16S
ATOM	25863	C1*	C	A1226	236.256	99.944	6.373	1.00	78.94	A16S
ATOM	25864	N1	C	A1226	235.347	101.064	6.703	1.00	76.89	A16S
ATOM	25865	C6	C	A1226	235.757	102.098	7.497	1.00	76.89	A16S



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ATOM	25866	C2	C	A1226	234.017	101.022	6.232	1.00	76.89	A16S
ATOM	25867	O2	C	A1226	233.681	100.121	5.445	1.00	76.89	A16S
ATOM	25868	N3	C	A1226	233.139	101.964	6.645	1.00	76.89	A16S
ATOM	25869	C4	C	A1226	233.537	102.925	7.475	1.00	76.89	A16S
ATOM	25870	N4	C	A1226	232.618	103.786	7.918	1.00	76.89	A16S
ATOM	25871	C5	C	A1226	234.893	103.037	7.907	1.00	76.89	A16S
ATOM	25872	C2*	C	A1226	237.006	99.992	5.042	1.00	78.94	A16S
ATOM	25873	O2*	C	A1226	236.997	98.678	4.534	1.00	78.94	A16S
ATOM	25874	C3*	C	A1226	238.397	100.423	5.474	1.00	78.94	A16S
ATOM	25875	O3*	C	A1226	239.466	100.016	4.585	1.00	78.94	A16S
ATOM	25876	P	A	A1227	239.855	98.442	4.372	1.00	72.59	A16S
ATOM	25877	O1P	A	A1227	239.613	97.696	5.623	1.00	111.79	A16S
ATOM	25878	O2P	A	A1227	241.223	98.435	3.783	1.00	111.79	A16S
ATOM	25879	O5*	A	A1227	238.883	97.862	3.239	1.00	72.59	A16S
ATOM	25880	C5*	A	A1227	239.234	96.639	2.548	1.00	72.59	A16S
ATOM	25881	C4*	A	A1227	238.391	96.417	1.298	1.00	72.59	A16S
ATOM	25882	O4*	A	A1227	237.157	95.715	1.604	1.00	72.59	A16S
ATOM	25883	C1*	A	A1227	236.180	96.019	0.614	1.00	72.59	A16S
ATOM	25884	N9	A	A1227	235.009	96.607	1.265	1.00	111.79	A16S
ATOM	25885	C4	A	A1227	233.776	96.024	1.375	1.00	111.79	A16S
ATOM	25886	N3	A	A1227	233.414	94.815	0.928	1.00	111.79	A16S
ATOM	25887	C2	A	A1227	232.133	94.585	1.203	1.00	111.79	A16S
ATOM	25888	N1	A	A1227	231.240	95.373	1.828	1.00	111.79	A16S
ATOM	25889	C6	A	A1227	231.642	96.584	2.263	1.00	111.79	A16S
ATOM	25890	N6	A	A1227	230.752	97.367	2.880	1.00	111.79	A16S
ATOM	25891	C5	A	A1227	232.978	96.944	2.034	1.00	111.79	A16S
ATOM	25892	N7	A	A1227	233.696	98.087	2.340	1.00	111.79	A16S
ATOM	25893	C8	A	A1227	234.892	97.839	1.868	1.00	111.79	A16S
ATOM	25894	C2*	A	A1227	236.809	96.994	-0.379	1.00	72.59	A16S
ATOM	25895	O2*	A	A1227	237.242	96.293	-1.527	1.00	72.59	A16S
ATOM	25896	C3*	A	A1227	237.950	97.594	0.444	1.00	72.59	A16S
ATOM	25897	O3*	A	A1227	238.960	98.116	-0.405	1.00	72.59	A16S
ATOM	25898	P	C	A1228	238.675	99.484	-1.194	1.00	68.57	A16S
ATOM	25899	O1P	C	A1228	239.644	99.627	-2.310	1.00	77.49	A16S
ATOM	25900	O2P	C	A1228	238.528	100.577	-0.205	1.00	77.49	A16S
ATOM	25901	O5*	C	A1228	237.249	99.198	-1.825	1.00	68.57	A16S
ATOM	25902	C5*	C	A1228	236.469	100.237	-2.401	1.00	68.57	A16S
ATOM	25903	C4*	C	A1228	235.083	99.726	-2.664	1.00	68.57	A16S
ATOM	25904	O4*	C	A1228	234.542	99.198	-1.425	1.00	68.57	A16S
ATOM	25905	C1*	C	A1228	233.189	99.597	-1.292	1.00	68.57	A16S
ATOM	25906	N1	C	A1228	233.097	100.527	-0.144	1.00	77.49	A16S
ATOM	25907	C6	C	A1228	234.039	101.506	0.041	1.00	77.49	A16S
ATOM	25908	C2	C	A1228	232.025	100.404	0.752	1.00	77.49	A16S
ATOM	25909	O2	C	A1228	231.180	99.518	0.565	1.00	77.49	A16S
ATOM	25910	N3	C	A1228	231.934	101.262	1.795	1.00	77.49	A16S
ATOM	25911	C4	C	A1228	232.851	102.218	1.956	1.00	77.49	A16S
ATOM	25912	N4	C	A1228	232.708	103.050	2.986	1.00	77.49	A16S
ATOM	25913	C5	C	A1228	233.952	102.366	1.063	1.00	77.49	A16S
ATOM	25914	C2*	C	A1228	232.777	100.269	-2.607	1.00	68.57	A16S
ATOM	25915	O2*	C	A1228	232.190	99.325	-3.488	1.00	68.57	A16S
ATOM	25916	C3*	C	A1228	234.111	100.801	-3.101	1.00	68.57	A16S
ATOM	25917	O3*	C	A1228	234.149	101.006	-4.495	1.00	68.57	A16S
ATOM	25918	P	A	A1229	233.790	102.448	-5.075	1.00	59.63	A16S
ATOM	25919	O1P	A	A1229	233.941	102.401	-6.550	1.00	68.18	A16S
ATOM	25920	O2P	A	A1229	234.539	103.460	-4.298	1.00	68.18	A16S
ATOM	25921	O5*	A	A1229	232.255	102.632	-4.685	1.00	59.63	A16S
ATOM	25922	C5*	A	A1229	231.193	102.077	-5.491	1.00	59.63	A16S
ATOM	25923	C4*	A	A1229	229.879	102.776	-5.181	1.00	59.63	A16S
ATOM	25924	O4*	A	A1229	229.396	102.408	-3.859	1.00	59.63	A16S
ATOM	25925	C1*	A	A1229	228.818	103.540	-3.219	1.00	59.63	A16S
ATOM	25926	N9	A	A1229	229.623	103.871	-2.038	1.00	68.18	A16S
ATOM	25927	C4	A	A1229	229.292	104.782	-1.062	1.00	68.18	A16S
ATOM	25928	N3	A	A1229	228.170	105.518	-0.978	1.00	68.18	A16S
ATOM	25929	C2	A	A1229	228.213	106.304	0.090	1.00	68.18	A16S
ATOM	25930	N1	A	A1229	229.174	106.431	1.012	1.00	68.18	A16S
ATOM	25931	C6	A	A1229	230.283	105.677	0.896	1.00	68.18	A16S
ATOM	25932	N6	A	A1229	231.236	105.799	1.812	1.00	68.18	A16S
ATOM	25933	C5	A	A1229	230.365	104.803	-0.186	1.00	68.18	A16S
ATOM	25934	N7	A	A1229	231.347	103.909	-0.585	1.00	68.18	A16S
ATOM	25935	C8	A	A1229	230.861	103.378	-1.682	1.00	68.18	A16S
ATOM	25936	C2*	A	A1229	228.832	104.689	-4.223	1.00	59.63	A16S
ATOM	25937	O2*	A	A1229	227.591	104.742	-4.879	1.00	59.63	A16S
ATOM	25938	C3*	A	A1229	229.978	104.286	-5.138	1.00	59.63	A16S
ATOM	25939	O3*	A	A1229	229.866	104.846	-6.419	1.00	59.63	A16S
ATOM	25940	P	C	A1230	230.505	106.282	-6.688	1.00	51.36	A16S
ATOM	25941	O1P	C	A1230	230.601	106.528	-8.147	1.00	65.20	A16S
ATOM	25942	O2P	C	A1230	231.725	106.360	-5.845	1.00	65.20	A16S



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ATOM	25943	O5*	C	A1230	229.407	107.286	-6.134	1.00	51.36	A16S
ATOM	25944	C5*	C	A1230	228.080	107.287	-6.695	1.00	51.36	A16S
ATOM	25945	C4*	C	A1230	227.142	108.096	-5.831	1.00	51.36	A16S
ATOM	25946	O4*	C	A1230	227.073	107.509	-4.505	1.00	51.36	A16S
ATOM	25947	C1*	C	A1230	226.946	108.537	-3.539	1.00	51.36	A16S
ATOM	25948	N1	C	A1230	228.121	108.506	-2.636	1.00	65.20	A16S
ATOM	25949	C6	C	A1230	229.166	107.656	-2.852	1.00	65.20	A16S
ATOM	25950	C2	C	A1230	228.155	109.394	-1.552	1.00	65.20	A16S
ATOM	25951	O2	C	A1230	227.177	110.123	-1.348	1.00	65.20	A16S
ATOM	25952	N3	C	A1230	229.243	109.431	-0.753	1.00	65.20	A16S
ATOM	25953	C4	C	A1230	230.265	108.615	-0.987	1.00	65.20	A16S
ATOM	25954	N4	C	A1230	231.332	108.704	-0.181	1.00	65.20	A16S
ATOM	25955	C5	C	A1230	230.247	107.675	-2.059	1.00	65.20	A16S
ATOM	25956	C2*	C	A1230	226.843	109.863	-4.297	1.00	51.36	A16S
ATOM	25957	O2*	C	A1230	225.492	110.162	-4.580	1.00	51.36	A16S
ATOM	25958	C3*	C	A1230	227.568	109.530	-5.581	1.00	51.36	A16S
ATOM	25959	O3*	C	A1230	227.169	110.400	-6.614	1.00	51.36	A16S
ATOM	25960	P	G	A1231	227.861	111.839	-6.726	1.00	57.66	A16S
ATOM	25961	O1P	G	A1231	227.485	112.449	-8.031	1.00	66.93	A16S
ATOM	25962	O2P	G	A1231	229.292	111.663	-6.373	1.00	66.93	A16S
ATOM	25963	O5*	G	A1231	227.216	112.687	-5.546	1.00	57.66	A16S
ATOM	25964	C5*	G	A1231	225.849	113.102	-5.594	1.00	57.66	A16S
ATOM	25965	C4*	G	A1231	225.542	114.017	-4.436	1.00	57.66	A16S
ATOM	25966	O4*	G	A1231	225.687	113.292	-3.192	1.00	57.66	A16S
ATOM	25967	C1*	G	A1231	226.195	114.162	-2.196	1.00	57.66	A16S
ATOM	25968	N9	G	A1231	227.496	113.663	-1.777	1.00	66.93	A16S
ATOM	25969	C4	G	A1231	228.220	114.090	-0.694	1.00	66.93	A16S
ATOM	25970	N3	G	A1231	227.849	115.043	0.175	1.00	66.93	A16S
ATOM	25971	C2	G	A1231	228.758	115.237	1.096	1.00	66.93	A16S
ATOM	25972	N2	G	A1231	228.558	116.158	2.037	1.00	66.93	A16S
ATOM	25973	N1	G	A1231	229.936	114.547	1.165	1.00	66.93	A16S
ATOM	25974	C6	G	A1231	230.338	113.566	0.277	1.00	66.93	A16S
ATOM	25975	O6	G	A1231	231.433	113.012	0.418	1.00	66.93	A16S
ATOM	25976	C5	G	A1231	229.376	113.348	-0.713	1.00	66.93	A16S
ATOM	25977	N7	G	A1231	229.377	112.466	-1.783	1.00	66.93	A16S
ATOM	25978	C8	G	A1231	228.243	112.689	-2.387	1.00	66.93	A16S
ATOM	25979	C2*	G	A1231	226.329	115.553	-2.807	1.00	57.66	A16S
ATOM	25980	O2*	G	A1231	225.169	116.300	-2.506	1.00	57.66	A16S
ATOM	25981	C3*	G	A1231	226.457	115.220	-4.284	1.00	57.66	A16S
ATOM	25982	O3*	G	A1231	226.059	116.307	-5.098	1.00	57.66	A16S
ATOM	25983	P	U	A1232	227.142	117.421	-5.497	1.00	50.88	A16S
ATOM	25984	O1P	U	A1232	226.489	118.407	-6.414	1.00	86.84	A16S
ATOM	25985	O2P	U	A1232	228.360	116.696	-5.944	1.00	86.84	A16S
ATOM	25986	O5*	U	A1232	227.496	118.106	-4.105	1.00	50.88	A16S
ATOM	25987	C5*	U	A1232	226.514	118.877	-3.386	1.00	50.88	A16S
ATOM	25988	C4*	U	A1232	227.153	119.529	-2.188	1.00	50.88	A16S
ATOM	25989	O4*	U	A1232	227.645	118.499	-1.302	1.00	50.88	A16S
ATOM	25990	C1*	U	A1232	228.884	118.880	-0.765	1.00	50.88	A16S
ATOM	25991	N1	U	A1232	229.844	117.822	-1.085	1.00	86.84	A16S
ATOM	25992	C6	U	A1232	229.776	117.136	-2.267	1.00	86.84	A16S
ATOM	25993	C2	U	A1232	230.807	117.534	-0.151	1.00	86.84	A16S
ATOM	25994	O2	U	A1232	230.899	118.132	0.904	1.00	86.84	A16S
ATOM	25995	N3	U	A1232	231.661	116.519	-0.493	1.00	86.84	A16S
ATOM	25996	C4	U	A1232	231.649	115.785	-1.655	1.00	86.84	A16S
ATOM	25997	O4	U	A1232	232.480	114.886	-1.817	1.00	86.84	A16S
ATOM	25998	C5	U	A1232	230.620	116.154	-2.577	1.00	86.84	A16S
ATOM	25999	C2*	U	A1232	229.230	120.271	-1.291	1.00	50.88	A16S
ATOM	26000	O2*	U	A1232	228.868	121.193	-0.302	1.00	50.88	A16S
ATOM	26001	C3*	U	A1232	228.358	120.368	-2.537	1.00	50.88	A16S
ATOM	26002	O3*	U	A1232	227.909	121.682	-2.843	1.00	50.88	A16S
ATOM	26003	P	G	A1233	228.885	122.696	-3.606	1.00	50.79	A16S
ATOM	26004	O1P	G	A1233	228.138	123.943	-3.923	1.00	63.51	A16S
ATOM	26005	O2P	G	A1233	229.515	121.927	-4.705	1.00	63.51	A16S
ATOM	26006	O5*	G	A1233	229.980	122.994	-2.484	1.00	50.79	A16S
ATOM	26007	C5*	G	A1233	231.386	123.015	-2.788	1.00	50.79	A16S
ATOM	26008	C4*	G	A1233	232.196	122.768	-1.541	1.00	50.79	A16S
ATOM	26009	O4*	G	A1233	232.107	121.364	-1.171	1.00	50.79	A16S
ATOM	26010	C1*	G	A1233	233.347	120.931	-0.612	1.00	50.79	A16S
ATOM	26011	N9	G	A1233	233.825	119.769	-1.365	1.00	63.51	A16S
ATOM	26012	C4	G	A1233	234.994	119.054	-1.161	1.00	63.51	A16S
ATOM	26013	N3	G	A1233	235.943	119.311	-0.235	1.00	63.51	A16S
ATOM	26014	C2	G	A1233	236.934	118.423	-0.283	1.00	63.51	A16S
ATOM	26015	N2	G	A1233	237.962	118.514	0.561	1.00	63.51	A16S
ATOM	26016	N1	G	A1233	236.987	117.378	-1.159	1.00	63.51	A16S
ATOM	26017	C6	G	A1233	236.024	117.089	-2.114	1.00	63.51	A16S
ATOM	26018	O6	G	A1233	236.158	116.102	-2.845	1.00	63.51	A16S
ATOM	26019	C5	G	A1233	234.962	118.032	-2.088	1.00	63.51	A16S



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ATOM	26020	N7	G	A1233	233.820	118.113	-2.873	1.00	63.51	A16S
ATOM	26021	C8	G	A1233	233.181	119.155	-2.413	1.00	63.51	A16S
ATOM	26022	C2*	G	A1233	234.301	122.128	-0.621	1.00	50.79	A16S
ATOM	26023	O2*	G	A1233	234.303	122.723	0.661	1.00	50.79	A16S
ATOM	26024	C3*	G	A1233	233.684	123.016	-1.700	1.00	50.79	A16S
ATOM	26025	O3*	G	A1233	233.999	124.399	-1.547	1.00	50.79	A16S
ATOM	26026	P	C	A1234	235.212	125.042	-2.399	1.00	56.79	A16S
ATOM	26027	O1P	C	A1234	235.197	126.518	-2.161	1.00	58.98	A16S
ATOM	26028	O2P	C	A1234	235.159	124.533	-3.794	1.00	58.98	A16S
ATOM	26029	O5*	C	A1234	236.505	124.416	-1.708	1.00	56.79	A16S
ATOM	26030	C5*	C	A1234	236.842	124.773	-0.359	1.00	56.79	A16S
ATOM	26031	C4*	C	A1234	238.125	124.104	0.064	1.00	56.79	A16S
ATOM	26032	O4*	C	A1234	237.919	122.676	0.112	1.00	56.79	A16S
ATOM	26033	C1*	C	A1234	239.096	122.010	-0.285	1.00	56.79	A16S
ATOM	26034	N1	C	A1234	238.771	121.153	-1.441	1.00	58.98	A16S
ATOM	26035	C6	C	A1234	237.628	121.353	-2.169	1.00	58.98	A16S
ATOM	26036	C2	C	A1234	239.648	120.107	-1.776	1.00	58.98	A16S
ATOM	26037	O2	C	A1234	240.706	119.966	-1.124	1.00	58.98	A16S
ATOM	26038	N3	C	A1234	239.329	119.285	-2.801	1.00	58.98	A16S
ATOM	26039	C4	C	A1234	238.205	119.480	-3.487	1.00	58.98	A16S
ATOM	26040	N4	C	A1234	237.932	118.638	-4.478	1.00	58.98	A16S
ATOM	26041	C5	C	A1234	237.310	120.547	-3.186	1.00	58.98	A16S
ATOM	26042	C2*	C	A1234	240.170	123.066	-0.551	1.00	56.79	A16S
ATOM	26043	O2*	C	A1234	240.962	123.188	0.609	1.00	56.79	A16S
ATOM	26044	C3*	C	A1234	239.327	124.302	-0.842	1.00	56.79	A16S
ATOM	26045	O3*	C	A1234	240.009	125.516	-0.535	1.00	56.79	A16S
ATOM	26046	P	U	A1235	240.946	126.203	-1.646	1.00	49.60	A16S
ATOM	26047	O1P	U	A1235	241.666	127.320	-0.973	1.00	59.26	A16S
ATOM	26048	O2P	U	A1235	240.154	126.492	-2.871	1.00	59.26	A16S
ATOM	26049	O5*	U	A1235	242.004	125.054	-1.957	1.00	49.60	A16S
ATOM	26050	C5*	U	A1235	243.084	124.792	-1.040	1.00	49.60	A16S
ATOM	26051	C4*	U	A1235	244.063	123.818	-1.642	1.00	49.60	A16S
ATOM	26052	O4*	U	A1235	243.454	122.503	-1.697	1.00	49.60	A16S
ATOM	26053	C1*	U	A1235	243.913	121.809	-2.853	1.00	49.60	A16S
ATOM	26054	N1	U	A1235	242.762	121.483	-3.726	1.00	59.26	A16S
ATOM	26055	C6	U	A1235	241.583	122.200	-3.664	1.00	59.26	A16S
ATOM	26056	C2	U	A1235	242.898	120.421	-4.627	1.00	59.26	A16S
ATOM	26057	O2	U	A1235	243.924	119.769	-4.745	1.00	59.26	A16S
ATOM	26058	N3	U	A1235	241.790	120.162	-5.396	1.00	59.26	A16S
ATOM	26059	C4	U	A1235	240.590	120.841	-5.381	1.00	59.26	A16S
ATOM	26060	O4	U	A1235	239.703	120.526	-6.183	1.00	59.26	A16S
ATOM	26061	C5	U	A1235	240.526	121.924	-4.439	1.00	59.26	A16S
ATOM	26062	C2*	U	A1235	244.940	122.711	-3.537	1.00	49.60	A16S
ATOM	26063	O2*	U	A1235	246.222	122.424	-3.023	1.00	49.60	A16S
ATOM	26064	C3*	U	A1235	244.501	124.087	-3.074	1.00	49.60	A16S
ATOM	26065	O3*	U	A1235	245.569	125.010	-3.196	1.00	49.60	A16S
ATOM	26066	P	A	A1236	245.727	125.847	-4.559	1.00	64.21	A16S
ATOM	26067	O1P	A	A1236	246.993	126.612	-4.391	1.00	65.93	A16S
ATOM	26068	O2P	A	A1236	244.469	126.587	-4.855	1.00	65.93	A16S
ATOM	26069	O5*	A	A1236	245.905	124.720	-5.685	1.00	64.21	A16S
ATOM	26070	C5*	A	A1236	247.135	123.969	-5.759	1.00	64.21	A16S
ATOM	26071	C4*	A	A1236	247.062	122.797	-6.741	1.00	64.21	A16S
ATOM	26072	O4*	A	A1236	245.936	121.910	-6.490	1.00	64.21	A16S
ATOM	26073	C1*	A	A1236	245.766	121.061	-7.614	1.00	64.21	A16S
ATOM	26074	N9	A	A1236	244.378	121.100	-8.060	1.00	65.93	A16S
ATOM	26075	C4	A	A1236	243.713	120.062	-8.659	1.00	65.93	A16S
ATOM	26076	N3	A	A1236	244.185	118.830	-8.908	1.00	65.93	A16S
ATOM	26077	C2	A	A1236	243.258	118.094	-9.512	1.00	65.93	A16S
ATOM	26078	N1	A	A1236	242.013	118.425	-9.870	1.00	65.93	A16S
ATOM	26079	C6	A	A1236	241.580	119.677	-9.609	1.00	65.93	A16S
ATOM	26080	N6	A	A1236	240.347	120.028	-9.980	1.00	65.93	A16S
ATOM	26081	C5	A	A1236	242.457	120.547	-8.968	1.00	65.93	A16S
ATOM	26082	N7	A	A1236	242.320	121.862	-8.557	1.00	65.93	A16S
ATOM	26083	C8	A	A1236	243.484	122.142	-8.019	1.00	65.93	A16S
ATOM	26084	C2*	A	A1236	246.694	121.567	-8.717	1.00	64.21	A16S
ATOM	26085	O2*	A	A1236	247.826	120.722	-8.688	1.00	64.21	A16S
ATOM	26086	C3*	A	A1236	247.015	122.988	-8.251	1.00	64.21	A16S
ATOM	26087	O3*	A	A1236	248.277	123.372	-8.778	1.00	64.21	A16S
ATOM	26088	P	C	A1237	248.349	124.139	-10.189	1.00	65.52	A16S
ATOM	26089	O1P	C	A1237	249.562	125.004	-10.161	1.00	59.06	A16S
ATOM	26090	O2P	C	A1237	247.044	124.746	-10.498	1.00	59.06	A16S
ATOM	26091	O5*	C	A1237	248.549	122.972	-11.255	1.00	65.52	A16S
ATOM	26092	C5*	C	A1237	249.681	122.094	-11.190	1.00	65.52	A16S
ATOM	26093	C4*	C	A1237	249.372	120.788	-11.885	1.00	65.52	A16S
ATOM	26094	O4*	C	A1237	248.219	120.167	-11.268	1.00	65.52	A16S
ATOM	26095	C1*	C	A1237	247.456	119.481	-12.244	1.00	65.52	A16S
ATOM	26096	N1	C	A1237	246.097	120.062	-12.257	1.00	59.06	A16S



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ATOM	26097	C6	C	A1237	245.912	121.390	-12.006	1.00	59.06	A16S
ATOM	26098	C2	C	A1237	244.997	119.241	-12.546	1.00	59.06	A16S
ATOM	26099	O2	C	A1237	245.176	118.024	-12.714	1.00	59.06	A16S
ATOM	26100	N3	C	A1237	243.765	119.795	-12.621	1.00	59.06	A16S
ATOM	26101	C4	C	A1237	243.607	121.099	-12.394	1.00	59.06	A16S
ATOM	26102	N4	C	A1237	242.388	121.615	-12.495	1.00	59.06	A16S
ATOM	26103	C5	C	A1237	244.696	121.940	-12.059	1.00	59.06	A16S
ATOM	26104	C2*	C	A1237	248.190	119.616	-13.582	1.00	65.52	A16S
ATOM	26105	O2*	C	A1237	248.982	118.466	-13.793	1.00	65.52	A16S
ATOM	26106	C3*	C	A1237	249.035	120.867	-13.360	1.00	65.52	A16S
ATOM	26107	O3*	C	A1237	250.243	120.786	-14.087	1.00	65.52	A16S
ATOM	26108	P	A	A1238	250.233	120.942	-15.678	1.00	67.35	A16S
ATOM	26109	O1P	A	A1238	248.871	120.591	-16.148	1.00	74.20	A16S
ATOM	26110	O2P	A	A1238	251.420	120.207	-16.226	1.00	74.20	A16S
ATOM	26111	O5*	A	A1238	250.495	122.497	-15.889	1.00	67.35	A16S
ATOM	26112	C5*	A	A1238	249.412	123.414	-15.863	1.00	67.35	A16S
ATOM	26113	C4*	A	A1238	249.731	124.615	-14.996	1.00	67.35	A16S
ATOM	26114	O4*	A	A1238	250.352	124.213	-13.744	1.00	67.35	A16S
ATOM	26115	C1*	A	A1238	251.071	125.311	-13.211	1.00	67.35	A16S
ATOM	26116	N9	A	A1238	252.460	124.921	-13.005	1.00	74.20	A16S
ATOM	26117	C4	A	A1238	253.468	125.777	-12.637	1.00	74.20	A16S
ATOM	26118	N3	A	A1238	253.363	127.085	-12.351	1.00	74.20	A16S
ATOM	26119	C2	A	A1238	254.554	127.600	-12.081	1.00	74.20	A16S
ATOM	26120	N1	A	A1238	255.747	127.007	-12.068	1.00	74.20	A16S
ATOM	26121	C6	A	A1238	255.813	125.692	-12.356	1.00	74.20	A16S
ATOM	26122	N6	A	A1238	257.000	125.096	-12.342	1.00	74.20	A16S
ATOM	26123	C5	A	A1238	254.622	125.029	-12.655	1.00	74.20	A16S
ATOM	26124	N7	A	A1238	254.345	123.714	-12.986	1.00	74.20	A16S
ATOM	26125	C8	A	A1238	253.048	123.701	-13.172	1.00	74.20	A16S
ATOM	26126	C2*	A	A1238	250.997	126.446	-14.235	1.00	67.35	A16S
ATOM	26127	O2*	A	A1238	249.967	127.330	-13.832	1.00	67.35	A16S
ATOM	26128	C3*	A	A1238	250.660	125.697	-15.521	1.00	67.35	A16S
ATOM	26129	O3*	A	A1238	249.989	126.562	-16.431	1.00	67.35	A16S
ATOM	26130	P	A	A1239	250.811	127.259	-17.621	1.00	56.47	A16S
ATOM	26131	O1P	A	A1239	249.887	128.079	-18.448	1.00	63.08	A16S
ATOM	26132	O2P	A	A1239	251.645	126.217	-18.264	1.00	63.08	A16S
ATOM	26133	O5*	A	A1239	251.793	128.262	-16.876	1.00	56.47	A16S
ATOM	26134	C5*	A	A1239	251.301	129.498	-16.331	1.00	56.47	A16S
ATOM	26135	C4*	A	A1239	252.301	130.600	-16.559	1.00	56.47	A16S
ATOM	26136	O4*	A	A1239	253.541	130.239	-15.897	1.00	56.47	A16S
ATOM	26137	C1*	A	A1239	254.592	130.266	-16.827	1.00	56.47	A16S
ATOM	26138	N9	A	A1239	255.585	129.272	-16.445	1.00	63.08	A16S
ATOM	26139	C4	A	A1239	256.928	129.532	-16.329	1.00	63.08	A16S
ATOM	26140	N3	A	A1239	257.551	130.705	-16.547	1.00	63.08	A16S
ATOM	26141	C2	A	A1239	258.860	130.585	-16.343	1.00	63.08	A16S
ATOM	26142	N1	A	A1239	259.568	129.509	-15.974	1.00	63.08	A16S
ATOM	26143	C6	A	A1239	258.909	128.344	-15.766	1.00	63.08	A16S
ATOM	26144	N6	A	A1239	259.610	127.266	-15.409	1.00	63.08	A16S
ATOM	26145	C5	A	A1239	257.511	128.339	-15.945	1.00	63.08	A16S
ATOM	26146	N7	A	A1239	256.552	127.341	-15.815	1.00	63.08	A16S
ATOM	26147	C8	A	A1239	255.428	127.946	-16.125	1.00	63.08	A16S
ATOM	26148	C2*	A	A1239	253.952	130.071	-18.193	1.00	56.47	A16S
ATOM	26149	O2*	A	A1239	254.799	130.561	-19.210	1.00	56.47	A16S
ATOM	26150	C3*	A	A1239	252.651	130.852	-18.018	1.00	56.47	A16S
ATOM	26151	O3*	A	A1239	252.888	132.244	-18.185	1.00	56.47	A16S
ATOM	26152	P	U	A1240	252.035	133.078	-19.260	1.00	54.09	A16S
ATOM	26153	O1P	U	A1240	251.364	132.090	-20.149	1.00	69.19	A16S
ATOM	26154	O2P	U	A1240	252.889	134.133	-19.855	1.00	69.19	A16S
ATOM	26155	O5*	U	A1240	250.899	133.788	-18.390	1.00	54.09	A16S
ATOM	26156	C5*	U	A1240	251.224	134.737	-17.341	1.00	54.09	A16S
ATOM	26157	C4*	U	A1240	249.979	135.096	-16.553	1.00	54.09	A16S
ATOM	26158	O4*	U	A1240	249.007	135.692	-17.446	1.00	54.09	A16S
ATOM	26159	C1*	U	A1240	247.803	134.973	-17.366	1.00	54.09	A16S
ATOM	26160	N1	U	A1240	247.113	135.064	-18.660	1.00	69.19	A16S
ATOM	26161	C6	U	A1240	247.407	134.225	-19.707	1.00	69.19	A16S
ATOM	26162	C2	U	A1240	246.140	136.046	-18.787	1.00	69.19	A16S
ATOM	26163	O2	U	A1240	245.839	136.812	-17.887	1.00	69.19	A16S
ATOM	26164	N3	U	A1240	245.528	136.102	-20.008	1.00	69.19	A16S
ATOM	26165	C4	U	A1240	245.769	135.295	-21.090	1.00	69.19	A16S
ATOM	26166	O4	U	A1240	245.093	135.444	-22.108	1.00	69.19	A16S
ATOM	26167	C5	U	A1240	246.785	134.303	-20.887	1.00	69.19	A16S
ATOM	26168	C2*	U	A1240	248.181	133.580	-16.871	1.00	54.09	A16S
ATOM	26169	O2*	U	A1240	247.075	132.956	-16.257	1.00	54.09	A16S
ATOM	26170	C3*	U	A1240	249.283	133.919	-15.877	1.00	54.09	A16S
ATOM	26171	O3*	U	A1240	248.599	134.363	-14.704	1.00	54.09	A16S
ATOM	26172	P	G	A1241	249.414	134.782	-13.380	1.00	56.01	A16S
ATOM	26173	O1P	G	A1241	248.371	135.175	-12.397	1.00	79.91	A16S



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ATOM	26174	O2P	G	A1241	250.451	135.763	-13.773	1.00	79.91	A16S
ATOM	26175	O5*	G	A1241	250.106	133.442	-12.867	1.00	56.01	A16S
ATOM	26176	C5*	G	A1241	249.333	132.255	-12.699	1.00	56.01	A16S
ATOM	26177	C4*	G	A1241	250.225	131.089	-12.369	1.00	56.01	A16S
ATOM	26178	O4*	G	A1241	251.161	130.856	-13.445	1.00	56.01	A16S
ATOM	26179	C1*	G	A1241	252.409	130.445	-12.915	1.00	56.01	A16S
ATOM	26180	N9	G	A1241	253.416	131.419	-13.341	1.00	79.91	A16S
ATOM	26181	C4	G	A1241	254.784	131.279	-13.283	1.00	79.91	A16S
ATOM	26182	N3	G	A1241	255.451	130.218	-12.794	1.00	79.91	A16S
ATOM	26183	C2	G	A1241	256.754	130.367	-12.885	1.00	79.91	A16S
ATOM	26184	N2	G	A1241	257.554	129.399	-12.448	1.00	79.91	A16S
ATOM	26185	N1	G	A1241	257.361	131.477	-13.413	1.00	79.91	A16S
ATOM	26186	C6	G	A1241	256.693	132.590	-13.918	1.00	79.91	A16S
ATOM	26187	O6	G	A1241	257.336	133.554	-14.370	1.00	79.91	A16S
ATOM	26188	C5	G	A1241	255.293	132.436	-13.827	1.00	79.91	A16S
ATOM	26189	N7	G	A1241	254.273	133.292	-14.209	1.00	79.91	A16S
ATOM	26190	C8	G	A1241	253.180	132.652	-13.899	1.00	79.91	A16S
ATOM	26191	C2*	G	A1241	252.247	130.319	-11.398	1.00	56.01	A16S
ATOM	26192	O2*	G	A1241	251.920	128.984	-11.087	1.00	56.01	A16S
ATOM	26193	C3*	G	A1241	251.083	131.265	-11.137	1.00	56.01	A16S
ATOM	26194	O3*	G	A1241	250.332	130.896	-10.001	1.00	56.01	A16S
ATOM	26195	P	C	A1242	250.671	131.548	-8.579	1.00	67.50	A16S
ATOM	26196	O1P	C	A1242	249.581	131.114	-7.665	1.00	72.77	A16S
ATOM	26197	O2P	C	A1242	250.954	133.007	-8.748	1.00	72.77	A16S
ATOM	26198	O5*	C	A1242	251.993	130.774	-8.157	1.00	67.50	A16S
ATOM	26199	C5*	C	A1242	251.912	129.383	-7.831	1.00	67.50	A16S
ATOM	26200	C4*	C	A1242	253.275	128.825	-7.540	1.00	67.50	A16S
ATOM	26201	O4*	C	A1242	254.041	128.763	-8.765	1.00	67.50	A16S
ATOM	26202	C1*	C	A1242	255.401	129.019	-8.484	1.00	67.50	A16S
ATOM	26203	N1	C	A1242	255.770	130.272	-9.161	1.00	72.77	A16S
ATOM	26204	C6	C	A1242	254.814	131.068	-9.729	1.00	72.77	A16S
ATOM	26205	C2	C	A1242	257.117	130.645	-9.208	1.00	72.77	A16S
ATOM	26206	O2	C	A1242	257.971	129.909	-8.666	1.00	72.77	A16S
ATOM	26207	N3	C	A1242	257.455	131.800	-9.832	1.00	72.77	A16S
ATOM	26208	C4	C	A1242	256.509	132.568	-10.378	1.00	72.77	A16S
ATOM	26209	N4	C	A1242	256.886	133.695	-10.974	1.00	72.77	A16S
ATOM	26210	C5	C	A1242	255.137	132.214	-10.336	1.00	72.77	A16S
ATOM	26211	C2*	C	A1242	255.539	129.129	-6.965	1.00	67.50	A16S
ATOM	26212	O2*	C	A1242	255.867	127.839	-6.469	1.00	67.50	A16S
ATOM	26213	C3*	C	A1242	254.144	129.611	-6.574	1.00	67.50	A16S
ATOM	26214	O3*	C	A1242	253.785	129.363	-5.212	1.00	67.50	A16S
ATOM	26215	P	C	A1243	253.874	130.555	-4.131	1.00	75.13	A16S
ATOM	26216	O1P	C	A1243	253.413	130.018	-2.819	1.00	77.79	A16S
ATOM	26217	O2P	C	A1243	253.239	131.779	-4.683	1.00	77.79	A16S
ATOM	26218	O5*	C	A1243	255.444	130.791	-4.011	1.00	75.13	A16S
ATOM	26219	C5*	C	A1243	256.333	129.680	-3.718	1.00	75.13	A16S
ATOM	26220	C4*	C	A1243	257.781	130.119	-3.758	1.00	75.13	A16S
ATOM	26221	O4*	C	A1243	258.197	130.397	-5.119	1.00	75.13	A16S
ATOM	26222	C1*	C	A1243	259.124	131.464	-5.117	1.00	75.13	A16S
ATOM	26223	N1	C	A1243	258.585	132.552	-5.931	1.00	77.79	A16S
ATOM	26224	C6	C	A1243	257.239	132.723	-6.069	1.00	77.79	A16S
ATOM	26225	C2	C	A1243	259.478	133.426	-6.563	1.00	77.79	A16S
ATOM	26226	O2	C	A1243	260.705	133.247	-6.419	1.00	77.79	A16S
ATOM	26227	N3	C	A1243	258.987	134.442	-7.310	1.00	77.79	A16S
ATOM	26228	C4	C	A1243	257.668	134.603	-7.430	1.00	77.79	A16S
ATOM	26229	N4	C	A1243	257.222	135.625	-8.164	1.00	77.79	A16S
ATOM	26230	C5	C	A1243	256.742	133.725	-6.799	1.00	77.79	A16S
ATOM	26231	C2*	C	A1243	259.353	131.905	-3.671	1.00	75.13	A16S
ATOM	26232	O2*	C	A1243	260.543	131.307	-3.199	1.00	75.13	A16S
ATOM	26233	C3*	C	A1243	258.096	131.386	-2.984	1.00	75.13	A16S
ATOM	26234	O3*	C	A1243	258.300	131.092	-1.609	1.00	75.13	A16S
ATOM	26235	P	C	A1244	258.069	132.238	-0.511	1.00	96.55	A16S
ATOM	26236	O1P	C	A1244	258.251	131.554	0.797	1.00103.24	A16S	
ATOM	26237	O2P	C	A1244	256.805	132.965	-0.790	1.00103.24	A16S	
ATOM	26238	O5*	C	A1244	259.271	133.250	-0.773	1.00	96.55	A16S
ATOM	26239	C5*	C	A1244	260.619	132.892	-0.414	1.00	96.55	A16S
ATOM	26240	C4*	C	A1244	261.576	134.028	-0.705	1.00	96.55	A16S
ATOM	26241	O4*	C	A1244	261.758	134.180	-2.134	1.00	96.55	A16S
ATOM	26242	C1*	C	A1244	261.995	135.541	-2.439	1.00	96.55	A16S
ATOM	26243	N1	C	A1244	260.955	136.003	-3.367	1.00103.24	A16S	
ATOM	26244	C6	C	A1244	259.709	135.437	-3.362	1.00103.24	A16S	
ATOM	26245	C2	C	A1244	261.257	137.051	-4.257	1.00103.24	A16S	
ATOM	26246	O2	C	A1244	262.402	137.540	-4.256	1.00103.24	A16S	
ATOM	26247	N3	C	A1244	260.298	137.499	-5.093	1.00103.24	A16S	
ATOM	26248	C4	C	A1244	259.082	136.945	-5.070	1.00103.24	A16S	
ATOM	26249	N4	C	A1244	258.161	137.427	-5.908	1.00103.24	A16S	
ATOM	26250	C5	C	A1244	258.753	135.872	-4.186	1.00103.24	A16S	



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ATOM	26251	C2*	C	A1244	261.985	136.326	-1.127	1.00	96.55	A16S
ATOM	26252	O2*	C	A1244	263.315	136.482	-0.681	1.00	96.55	A16S
ATOM	26253	C3*	C	A1244	261.171	135.411	-0.224	1.00	96.55	A16S
ATOM	26254	O3*	C	A1244	261.478	135.603	1.148	1.00	96.55	A16S
ATOM	26255	P	A	A1245	260.622	136.657	2.014	1.00102.34		A16S
ATOM	26256	O1P	A	A1245	260.940	136.362	3.443	1.00	87.54	A16S
ATOM	26257	O2P	A	A1245	259.203	136.652	1.560	1.00	87.54	A16S
ATOM	26258	O5*	A	A1245	261.236	138.069	1.606	1.00102.34		A16S
ATOM	26259	C5*	A	A1245	262.626	138.349	1.818	1.00102.34		A16S
ATOM	26260	C4*	A	A1245	263.061	139.510	0.966	1.00102.34		A16S
ATOM	26261	O4*	A	A1245	262.888	139.175	-0.433	1.00102.34		A16S
ATOM	26262	C1*	A	A1245	262.513	140.330	-1.159	1.00102.34		A16S
ATOM	26263	N9	A	A1245	261.215	140.077	-1.774	1.00	87.54	A16S
ATOM	26264	C4	A	A1245	260.657	140.808	-2.790	1.00	87.54	A16S
ATOM	26265	N3	A	A1245	261.185	141.877	-3.407	1.00	87.54	A16S
ATOM	26266	C2	A	A1245	260.353	142.342	-4.334	1.00	87.54	A16S
ATOM	26267	N1	A	A1245	259.146	141.891	-4.690	1.00	87.54	A16S
ATOM	26268	C6	A	A1245	258.647	140.809	-4.051	1.00	87.54	A16S
ATOM	26269	N6	A	A1245	257.443	140.355	-4.405	1.00	87.54	A16S
ATOM	26270	C5	A	A1245	259.431	140.226	-3.043	1.00	87.54	A16S
ATOM	26271	N7	A	A1245	259.218	139.142	-2.202	1.00	87.54	A16S
ATOM	26272	C8	A	A1245	260.303	139.095	-1.472	1.00	87.54	A16S
ATOM	26273	C2*	A	A1245	262.458	141.503	-0.181	1.00102.34		A16S
ATOM	26274	O2*	A	A1245	263.655	142.252	-0.272	1.00102.34		A16S
ATOM	26275	C3*	A	A1245	262.260	140.782	1.150	1.00102.34		A16S
ATOM	26276	O3*	A	A1245	262.700	141.520	2.282	1.00102.34		A16S
ATOM	26277	P	C	A1246	261.650	142.439	3.075	1.00107.32		A16S
ATOM	26278	O1P	C	A1246	262.303	142.897	4.325	1.00119.78		A16S
ATOM	26279	O2P	C	A1246	260.365	141.699	3.153	1.00119.78		A16S
ATOM	26280	O5*	C	A1246	261.453	143.690	2.104	1.00107.32		A16S
ATOM	26281	C5*	C	A1246	262.584	144.476	1.678	1.00107.32		A16S
ATOM	26282	C4*	C	A1246	262.183	145.440	0.585	1.00107.32		A16S
ATOM	26283	O4*	C	A1246	261.949	144.724	-0.658	1.00107.32		A16S
ATOM	26284	C1*	C	A1246	260.872	145.331	-1.371	1.00107.32		A16S
ATOM	26285	N1	C	A1246	259.746	144.366	-1.432	1.00119.78		A16S
ATOM	26286	C6	C	A1246	259.646	143.355	-0.513	1.00119.78		A16S
ATOM	26287	C2	C	A1246	258.762	144.506	-2.439	1.00119.78		A16S
ATOM	26288	O2	C	A1246	258.865	145.418	-3.271	1.00119.78		A16S
ATOM	26289	N3	C	A1246	257.727	143.641	-2.468	1.00119.78		A16S
ATOM	26290	C4	C	A1246	257.642	142.669	-1.555	1.00119.78		A16S
ATOM	26291	N4	C	A1246	256.596	141.848	-1.616	1.00119.78		A16S
ATOM	26292	C5	C	A1246	258.622	142.497	-0.536	1.00119.78		A16S
ATOM	26293	C2*	C	A1246	260.465	146.583	-0.593	1.00107.32		A16S
ATOM	26294	O2*	C	A1246	261.128	147.737	-1.088	1.00107.32		A16S
ATOM	26295	C3*	C	A1246	260.887	146.197	0.817	1.00107.32		A16S
ATOM	26296	O3*	C	A1246	260.995	147.296	1.694	1.00107.32		A16S
ATOM	26297	P	U	A1247	259.735	147.678	2.609	1.00	96.87	A16S
ATOM	26298	O1P	U	A1247	260.139	148.811	3.471	1.00103.21		A16S
ATOM	26299	O2P	U	A1247	259.212	146.425	3.232	1.00103.21		A16S
ATOM	26300	O5*	U	A1247	258.675	148.220	1.555	1.00	96.87	A16S
ATOM	26301	C5*	U	A1247	259.012	149.313	0.686	1.00	96.87	A16S
ATOM	26302	C4*	U	A1247	257.905	149.554	-0.309	1.00	96.87	A16S
ATOM	26303	O4*	U	A1247	257.864	148.458	-1.261	1.00	96.87	A16S
ATOM	26304	C1*	U	A1247	256.513	148.158	-1.586	1.00	96.87	A16S
ATOM	26305	N1	U	A1247	256.190	146.830	-1.032	1.00103.21		A16S
ATOM	26306	C6	U	A1247	256.957	146.263	-0.035	1.00103.21		A16S
ATOM	26307	C2	U	A1247	255.073	146.175	-1.520	1.00103.21		A16S
ATOM	26308	O2	U	A1247	254.386	146.619	-2.418	1.00103.21		A16S
ATOM	26309	N3	U	A1247	254.790	144.977	-0.911	1.00103.21		A16S
ATOM	26310	C4	U	A1247	255.500	144.372	0.109	1.00103.21		A16S
ATOM	26311	O4	U	A1247	255.088	143.315	0.596	1.00103.21		A16S
ATOM	26312	C5	U	A1247	256.658	145.093	0.536	1.00103.21		A16S
ATOM	26313	C2*	U	A1247	255.645	149.234	-0.927	1.00	96.87	A16S
ATOM	26314	O2*	U	A1247	255.444	150.331	-1.803	1.00	96.87	A16S
ATOM	26315	C3*	U	A1247	256.501	149.605	0.274	1.00	96.87	A16S
ATOM	26316	O3*	U	A1247	256.152	150.856	0.855	1.00	96.87	A16S
ATOM	26317	P	A	A1248	254.983	150.914	1.962	1.00116.39		A16S
ATOM	26318	O1P	A	A1248	255.112	152.228	2.640	1.00105.57		A16S
ATOM	26319	O2P	A	A1248	255.006	149.661	2.775	1.00105.57		A16S
ATOM	26320	O5*	A	A1248	253.651	150.945	1.085	1.00116.39		A16S
ATOM	26321	C5*	A	A1248	253.479	151.968	0.084	1.00116.39		A16S
ATOM	26322	C4*	A	A1248	252.140	151.846	-0.612	1.00116.39		A16S
ATOM	26323	O4*	A	A1248	252.112	150.716	-1.519	1.00116.39		A16S
ATOM	26324	C1*	A	A1248	250.768	150.316	-1.720	1.00116.39		A16S
ATOM	26325	N9	A	A1248	250.630	148.895	-1.413	1.00105.57		A16S
ATOM	26326	C4	A	A1248	249.671	148.053	-1.929	1.00105.57		A16S
ATOM	26327	N3	A	A1248	248.706	148.360	-2.816	1.00105.57		A16S



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ATOM	26328	C2	A	A1248	247.962	147.292	-3.085	1.00105.57	A16S
ATOM	26329	N1	A	A1248	248.062	146.044	-2.604	1.00105.57	A16S
ATOM	26330	C6	A	A1248	249.040	145.768	-1.712	1.00105.57	A16S
ATOM	26331	N6	A	A1248	249.138	144.522	-1.226	1.00105.57	A16S
ATOM	26332	C5	A	A1248	249.900	146.818	-1.346	1.00105.57	A16S
ATOM	26333	N7	A	A1248	250.985	146.878	-0.483	1.00105.57	A16S
ATOM	26334	C8	A	A1248	251.384	148.127	-0.561	1.00105.57	A16S
ATOM	26335	C2*	A	A1248	249.885	151.164	-0.807	1.00116.39	A16S
ATOM	26336	O2*	A	A1248	249.309	152.208	-1.563	1.00116.39	A16S
ATOM	26337	C3*	A	A1248	250.885	151.672	0.225	1.00116.39	A16S
ATOM	26338	O3*	A	A1248	250.444	152.899	0.785	1.00116.39	A16S
ATOM	26339	P	C	A1249	249.182	152.911	1.785	1.00105.77	A16S
ATOM	26340	O1P	C	A1249	249.077	154.275	2.368	1.00 95.35	A16S
ATOM	26341	O2P	C	A1249	249.239	151.721	2.692	1.00 95.35	A16S
ATOM	26342	O5*	C	A1249	247.935	152.755	0.814	1.00105.77	A16S
ATOM	26343	C5*	C	A1249	246.631	152.553	1.350	1.00105.77	A16S
ATOM	26344	C4*	C	A1249	245.611	152.499	0.247	1.00105.77	A16S
ATOM	26345	O4*	C	A1249	246.111	151.680	-0.840	1.00105.77	A16S
ATOM	26346	C1*	C	A1249	245.120	150.746	-1.229	1.00105.77	A16S
ATOM	26347	N1	C	A1249	245.557	149.419	-0.747	1.00 95.35	A16S
ATOM	26348	C6	C	A1249	246.455	149.318	0.283	1.00 95.35	A16S
ATOM	26349	C2	C	A1249	245.027	148.260	-1.338	1.00 95.35	A16S
ATOM	26350	O2	C	A1249	244.235	148.369	-2.304	1.00 95.35	A16S
ATOM	26351	N3	C	A1249	245.397	147.049	-0.842	1.00 95.35	A16S
ATOM	26352	C4	C	A1249	246.259	146.973	0.181	1.00 95.35	A16S
ATOM	26353	N4	C	A1249	246.578	145.762	0.653	1.00 95.35	A16S
ATOM	26354	C5	C	A1249	246.827	148.132	0.770	1.00 95.35	A16S
ATOM	26355	C2*	C	A1249	243.811	151.179	-0.562	1.00105.77	A16S
ATOM	26356	O2*	C	A1249	243.103	152.086	-1.379	1.00105.77	A16S
ATOM	26357	C3*	C	A1249	244.331	151.831	0.705	1.00105.77	A16S
ATOM	26358	O3*	C	A1249	243.448	152.760	1.295	1.00105.77	A16S
ATOM	26359	P	A	A1250	243.013	152.562	2.828	1.00106.68	A16S
ATOM	26360	O1P	A	A1250	242.220	153.777	3.167	1.00 77.03	A16S
ATOM	26361	O2P	A	A1250	244.218	152.210	3.643	1.00 77.03	A16S
ATOM	26362	O5*	A	A1250	242.062	151.275	2.808	1.00106.68	A16S
ATOM	26363	C5*	A	A1250	241.244	150.984	1.659	1.00106.68	A16S
ATOM	26364	C4*	A	A1250	240.166	149.960	1.974	1.00106.68	A16S
ATOM	26365	O4*	A	A1250	240.661	148.596	1.928	1.00106.68	A16S
ATOM	26366	C1*	A	A1250	239.710	147.757	2.561	1.00106.68	A16S
ATOM	26367	N9	A	A1250	240.368	146.792	3.445	1.00 77.03	A16S
ATOM	26368	C4	A	A1250	239.907	145.517	3.678	1.00 77.03	A16S
ATOM	26369	N3	A	A1250	238.816	144.942	3.152	1.00 77.03	A16S
ATOM	26370	C2	A	A1250	238.680	143.694	3.598	1.00 77.03	A16S
ATOM	26371	N1	A	A1250	239.450	143.002	4.450	1.00 77.03	A16S
ATOM	26372	C6	A	A1250	240.535	143.607	4.969	1.00 77.03	A16S
ATOM	26373	N6	A	A1250	241.285	142.913	5.832	1.00 77.03	A16S
ATOM	26374	C5	A	A1250	240.797	144.943	4.567	1.00 77.03	A16S
ATOM	26375	N7	A	A1250	241.804	145.842	4.893	1.00 77.03	A16S
ATOM	26376	C8	A	A1250	241.504	146.920	4.202	1.00 77.03	A16S
ATOM	26377	C2*	A	A1250	238.713	148.652	3.293	1.00106.68	A16S
ATOM	26378	O2*	A	A1250	237.543	148.673	2.505	1.00106.68	A16S
ATOM	26379	C3*	A	A1250	239.425	150.005	3.299	1.00106.68	A16S
ATOM	26380	O3*	A	A1250	238.481	151.070	3.379	1.00106.68	A16S
ATOM	26381	P	A	A1251	237.957	151.570	4.827	1.00 88.87	A16S
ATOM	26382	O1P	A	A1251	237.376	152.931	4.636	1.00 80.41	A16S
ATOM	26383	O2P	A	A1251	239.021	151.356	5.845	1.00 80.41	A16S
ATOM	26384	O5*	A	A1251	236.773	150.565	5.196	1.00 88.87	A16S
ATOM	26385	C5*	A	A1251	235.643	150.410	4.317	1.00 88.87	A16S
ATOM	26386	C4*	A	A1251	234.981	149.067	4.523	1.00 88.87	A16S
ATOM	26387	O4*	A	A1251	235.916	147.991	4.279	1.00 88.87	A16S
ATOM	26388	C1*	A	A1251	235.594	146.888	5.098	1.00 88.87	A16S
ATOM	26389	N9	A	A1251	236.777	146.522	5.873	1.00 80.41	A16S
ATOM	26390	C4	A	A1251	237.074	145.269	6.358	1.00 80.41	A16S
ATOM	26391	N3	A	A1251	236.342	144.151	6.235	1.00 80.41	A16S
ATOM	26392	C2	A	A1251	236.960	143.117	6.814	1.00 80.41	A16S
ATOM	26393	N1	A	A1251	238.132	143.079	7.457	1.00 80.41	A16S
ATOM	26394	C6	A	A1251	238.838	144.221	7.569	1.00 80.41	A16S
ATOM	26395	N6	A	A1251	240.003	144.185	8.215	1.00 80.41	A16S
ATOM	26396	C5	A	A1251	238.296	145.389	6.992	1.00 80.41	A16S
ATOM	26397	N7	A	A1251	238.757	146.694	6.918	1.00 80.41	A16S
ATOM	26398	C8	A	A1251	237.820	147.325	6.252	1.00 80.41	A16S
ATOM	26399	C2*	A	A1251	234.381	147.272	5.941	1.00 88.87	A16S
ATOM	26400	O2*	A	A1251	233.232	146.803	5.275	1.00 88.87	A16S
ATOM	26401	C3*	A	A1251	234.435	148.791	5.904	1.00 88.87	A16S
ATOM	26402	O3*	A	A1251	233.135	149.339	5.997	1.00 88.87	A16S
ATOM	26403	P	A	A1252	232.575	149.818	7.422	1.00 82.09	A16S
ATOM	26404	O1P	A	A1252	231.355	150.642	7.143	1.00 95.19	A16S



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ATOM	26405	O2P	A	A1252	233.705	150.408	8.187	1.00	95.19	A16S
ATOM	26406	O5*	A	A1252	232.159	148.472	8.170	1.00	82.09	A16S
ATOM	26407	C5*	A	A1252	231.024	147.709	7.735	1.00	82.09	A16S
ATOM	26408	C4*	A	A1252	231.153	146.285	8.194	1.00	82.09	A16S
ATOM	26409	O4*	A	A1252	232.441	145.782	7.769	1.00	82.09	A16S
ATOM	26410	C1*	A	A1252	232.954	144.896	8.736	1.00	82.09	A16S
ATOM	26411	N9	A	A1252	234.266	145.382	9.151	1.00	95.19	A16S
ATOM	26412	C4	A	A1252	235.232	144.634	9.781	1.00	95.19	A16S
ATOM	26413	N3	A	A1252	235.154	143.342	10.154	1.00	95.19	A16S
ATOM	26414	C2	A	A1252	236.292	142.946	10.731	1.00	95.19	A16S
ATOM	26415	N1	A	A1252	237.412	143.641	10.956	1.00	95.19	A16S
ATOM	26416	C6	A	A1252	237.457	144.938	10.565	1.00	95.19	A16S
ATOM	26417	N6	A	A1252	238.575	145.631	10.779	1.00	95.19	A16S
ATOM	26418	C5	A	A1252	236.311	145.480	9.947	1.00	95.19	A16S
ATOM	26419	N7	A	A1252	236.026	146.744	9.444	1.00	95.19	A16S
ATOM	26420	C8	A	A1252	234.803	146.635	8.991	1.00	95.19	A16S
ATOM	26421	C2*	A	A1252	231.943	144.797	9.874	1.00	82.09	A16S
ATOM	26422	O2*	A	A1252	231.194	143.614	9.700	1.00	82.09	A16S
ATOM	26423	C3*	A	A1252	231.138	146.084	9.694	1.00	82.09	A16S
ATOM	26424	O3*	A	A1252	229.793	145.978	10.163	1.00	82.09	A16S
ATOM	26425	P	G	A1253	229.499	145.965	11.746	1.00	77.21	A16S
ATOM	26426	O1P	G	A1253	228.194	145.261	11.953	1.00	88.70	A16S
ATOM	26427	O2P	G	A1253	229.681	147.347	12.263	1.00	88.70	A16S
ATOM	26428	O5*	G	A1253	230.672	145.050	12.315	1.00	77.21	A16S
ATOM	26429	C5*	G	A1253	230.793	144.746	13.703	1.00	77.21	A16S
ATOM	26430	C4*	G	A1253	231.581	143.476	13.853	1.00	77.21	A16S
ATOM	26431	O4*	G	A1253	232.706	143.521	12.945	1.00	77.21	A16S
ATOM	26432	C1*	G	A1253	233.829	142.898	13.548	1.00	77.21	A16S
ATOM	26433	N9	G	A1253	234.905	143.887	13.672	1.00	88.70	A16S
ATOM	26434	C4	G	A1253	236.163	143.668	14.191	1.00	88.70	A16S
ATOM	26435	N3	G	A1253	236.623	142.501	14.691	1.00	88.70	A16S
ATOM	26436	C2	G	A1253	237.862	142.609	15.128	1.00	88.70	A16S
ATOM	26437	N2	G	A1253	238.468	141.553	15.680	1.00	88.70	A16S
ATOM	26438	N1	G	A1253	238.597	143.762	15.063	1.00	88.70	A16S
ATOM	26439	C6	G	A1253	238.148	144.971	14.543	1.00	88.70	A16S
ATOM	26440	O6	G	A1253	238.901	145.953	14.520	1.00	88.70	A16S
ATOM	26441	C5	G	A1253	236.815	144.878	14.090	1.00	88.70	A16S
ATOM	26442	N7	G	A1253	235.989	145.843	13.528	1.00	88.70	A16S
ATOM	26443	C8	G	A1253	234.870	145.214	13.295	1.00	88.70	A16S
ATOM	26444	C2*	G	A1253	233.373	142.319	14.890	1.00	77.21	A16S
ATOM	26445	O2*	G	A1253	233.014	140.966	14.695	1.00	77.21	A16S
ATOM	26446	C3*	G	A1253	232.180	143.207	15.221	1.00	77.21	A16S
ATOM	26447	O3*	G	A1253	231.247	142.533	16.039	1.00	77.21	A16S
ATOM	26448	P	C	A1254	231.090	142.949	17.577	1.00	89.67	A16S
ATOM	26449	O1P	C	A1254	229.866	142.276	18.064	1.00	101.54	A16S
ATOM	26450	O2P	C	A1254	231.199	144.430	17.663	1.00	101.54	A16S
ATOM	26451	O5*	C	A1254	232.329	142.256	18.300	1.00	89.67	A16S
ATOM	26452	C5*	C	A1254	232.482	140.826	18.275	1.00	89.67	A16S
ATOM	26453	C4*	C	A1254	233.921	140.451	18.530	1.00	89.67	A16S
ATOM	26454	O4*	C	A1254	234.771	141.014	17.495	1.00	89.67	A16S
ATOM	26455	C1*	C	A1254	236.013	141.413	18.053	1.00	89.67	A16S
ATOM	26456	N1	C	A1254	236.174	142.868	17.856	1.00	101.54	A16S
ATOM	26457	C6	C	A1254	235.113	143.647	17.479	1.00	101.54	A16S
ATOM	26458	C2	C	A1254	237.440	143.448	18.053	1.00	101.54	A16S
ATOM	26459	O2	C	A1254	238.385	142.727	18.407	1.00	101.54	A16S
ATOM	26460	N3	C	A1254	237.597	144.781	17.850	1.00	101.54	A16S
ATOM	26461	C4	C	A1254	236.552	145.527	17.465	1.00	101.54	A16S
ATOM	26462	N4	C	A1254	236.750	146.839	17.259	1.00	101.54	A16S
ATOM	26463	C5	C	A1254	235.256	144.965	17.271	1.00	101.54	A16S
ATOM	26464	C2*	C	A1254	236.001	141.009	19.524	1.00	89.67	A16S
ATOM	26465	O2*	C	A1254	236.590	139.728	19.644	1.00	89.67	A16S
ATOM	26466	C3*	C	A1254	234.508	140.991	19.817	1.00	89.67	A16S
ATOM	26467	O3*	C	A1254	234.170	140.174	20.920	1.00	89.67	A16S
ATOM	26468	P	G	A1255	233.786	140.866	22.318	1.00	93.54	A16S
ATOM	26469	O1P	G	A1255	233.058	139.836	23.115	1.00	72.02	A16S
ATOM	26470	O2P	G	A1255	233.134	142.187	22.029	1.00	72.02	A16S
ATOM	26471	O5*	G	A1255	235.194	141.135	23.015	1.00	93.54	A16S
ATOM	26472	C5*	G	A1255	236.027	140.035	23.438	1.00	93.54	A16S
ATOM	26473	C4*	G	A1255	237.399	140.533	23.813	1.00	93.54	A16S
ATOM	26474	O4*	G	A1255	237.971	141.230	22.682	1.00	93.54	A16S
ATOM	26475	C1*	G	A1255	238.809	142.266	23.140	1.00	93.54	A16S
ATOM	26476	N9	G	A1255	238.434	143.509	22.477	1.00	72.02	A16S
ATOM	26477	C4	G	A1255	239.241	144.608	22.323	1.00	72.02	A16S
ATOM	26478	N3	G	A1255	240.500	144.735	22.789	1.00	72.02	A16S
ATOM	26479	C2	G	A1255	241.025	145.907	22.480	1.00	72.02	A16S
ATOM	26480	N2	G	A1255	242.263	146.211	22.881	1.00	72.02	A16S
ATOM	26481	N1	G	A1255	240.376	146.873	21.760	1.00	72.02	A16S



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ATOM	26482	C6	G	A1255	239.086	146.769	21.265	1.00	72.02	A16S
ATOM	26483	O6	G	A1255	238.602	147.711	20.622	1.00	72.02	A16S
ATOM	26484	C5	G	A1255	238.497	145.514	21.602	1.00	72.02	A16S
ATOM	26485	N7	G	A1255	237.235	145.004	21.328	1.00	72.02	A16S
ATOM	26486	C8	G	A1255	237.242	143.816	21.870	1.00	72.02	A16S
ATOM	26487	C2*	G	A1255	238.746	142.297	24.664	1.00	93.54	A16S
ATOM	26488	O2*	G	A1255	239.878	141.611	25.147	1.00	93.54	A16S
ATOM	26489	C3*	G	A1255	237.451	141.544	24.944	1.00	93.54	A16S
ATOM	26490	O3*	G	A1255	237.494	140.883	26.204	1.00	93.54	A16S
ATOM	26491	P	A	A1256	236.313	141.119	27.266	1.00130.75		A16S
ATOM	26492	O1P	A	A1256	235.241	140.150	26.933	1.00125.74		A16S
ATOM	26493	O2P	A	A1256	236.005	142.571	27.293	1.00125.74		A16S
ATOM	26494	O5*	A	A1256	236.944	140.688	28.669	1.00130.75		A16S
ATOM	26495	C5*	A	A1256	237.582	139.398	28.833	1.00130.75		A16S
ATOM	26496	C4*	A	A1256	238.215	139.271	30.210	1.00130.75		A16S
ATOM	26497	O4*	A	A1256	239.125	140.379	30.432	1.00130.75		A16S
ATOM	26498	C1*	A	A1256	239.093	140.768	31.791	1.00130.75		A16S
ATOM	26499	N9	A	A1256	238.703	142.172	31.843	1.00125.74		A16S
ATOM	26500	C4	A	A1256	239.352	143.203	31.211	1.00125.74		A16S
ATOM	26501	N3	A	A1256	240.449	143.126	30.441	1.00125.74		A16S
ATOM	26502	C2	A	A1256	240.799	144.331	30.000	1.00125.74		A16S
ATOM	26503	N1	A	A1256	240.223	145.514	30.223	1.00125.74		A16S
ATOM	26504	C6	A	A1256	239.119	145.556	31.000	1.00125.74		A16S
ATOM	26505	N6	A	A1256	238.539	146.738	31.227	1.00125.74		A16S
ATOM	26506	C5	A	A1256	238.645	144.344	31.528	1.00125.74		A16S
ATOM	26507	N7	A	A1256	237.565	144.040	32.346	1.00125.74		A16S
ATOM	26508	C8	A	A1256	237.646	142.743	32.503	1.00125.74		A16S
ATOM	26509	C2*	A	A1256	238.158	139.821	32.543	1.00130.75		A16S
ATOM	26510	O2*	A	A1256	238.971	138.889	33.209	1.00130.75		A16S
ATOM	26511	C3*	A	A1256	237.279	139.274	31.412	1.00130.75		A16S
ATOM	26512	O3*	A	A1256	236.674	137.964	31.555	1.00130.75		A16S
ATOM	26513	P	U	A1257	236.978	137.024	32.839	1.00197.05		A16S
ATOM	26514	O1P	U	A1257	236.140	135.807	32.670	1.00198.94		A16S
ATOM	26515	O2P	U	A1257	236.871	137.813	34.094	1.00198.94		A16S
ATOM	26516	O5*	U	A1257	238.491	136.570	32.627	1.00197.05		A16S
ATOM	26517	C5*	U	A1257	239.040	136.520	31.307	1.00197.05		A16S
ATOM	26518	C4*	U	A1257	240.540	136.657	31.337	1.00197.05		A16S
ATOM	26519	O4*	U	A1257	240.952	137.799	32.129	1.00197.05		A16S
ATOM	26520	C1*	U	A1257	242.216	137.535	32.723	1.00197.05		A16S
ATOM	26521	N1	U	A1257	242.115	137.675	34.184	1.00198.94		A16S
ATOM	26522	C6	U	A1257	240.952	137.375	34.864	1.00198.94		A16S
ATOM	26523	C2	U	A1257	243.243	138.116	34.864	1.00198.94		A16S
ATOM	26524	O2	U	A1257	244.298	138.385	34.304	1.00198.94		A16S
ATOM	26525	N3	U	A1257	243.091	138.228	36.225	1.00198.94		A16S
ATOM	26526	C4	U	A1257	241.957	137.948	36.962	1.00198.94		A16S
ATOM	26527	O4	U	A1257	241.972	138.118	38.183	1.00198.94		A16S
ATOM	26528	C5	U	A1257	240.839	137.493	36.192	1.00198.94		A16S
ATOM	26529	C2*	U	A1257	242.656	136.134	32.305	1.00197.05		A16S
ATOM	26530	O2*	U	A1257	243.606	136.282	31.272	1.00197.05		A16S
ATOM	26531	C3*	U	A1257	241.321	135.496	31.917	1.00197.05		A16S
ATOM	26532	O3*	U	A1257	241.358	134.404	30.997	1.00197.05		A16S
ATOM	26533	P	G	A1258	242.051	134.568	29.552	1.00121.55		A16S
ATOM	26534	O1P	G	A1258	241.462	133.473	28.727	1.00135.17		A16S
ATOM	26535	O2P	G	A1258	243.532	134.652	29.698	1.00135.17		A16S
ATOM	26536	O5*	G	A1258	241.491	135.952	28.980	1.00121.55		A16S
ATOM	26537	C5*	G	A1258	240.251	135.993	28.246	1.00121.55		A16S
ATOM	26538	C4*	G	A1258	240.247	137.141	27.263	1.00121.55		A16S
ATOM	26539	O4*	G	A1258	240.093	138.399	27.965	1.00121.55		A16S
ATOM	26540	C1*	G	A1258	240.706	139.437	27.215	1.00121.55		A16S
ATOM	26541	N9	G	A1258	241.742	140.079	28.021	1.00135.17		A16S
ATOM	26542	C4	G	A1258	242.112	141.404	27.952	1.00135.17		A16S
ATOM	26543	N3	G	A1258	241.552	142.344	27.159	1.00135.17		A16S
ATOM	26544	C2	G	A1258	242.129	143.523	27.298	1.00135.17		A16S
ATOM	26545	N2	G	A1258	241.682	144.570	26.593	1.00135.17		A16S
ATOM	26546	N1	G	A1258	243.182	143.765	28.144	1.00135.17		A16S
ATOM	26547	C6	G	A1258	243.780	142.817	28.970	1.00135.17		A16S
ATOM	26548	O6	G	A1258	244.734	143.144	29.695	1.00135.17		A16S
ATOM	26549	C5	G	A1258	243.160	141.539	28.836	1.00135.17		A16S
ATOM	26550	N7	G	A1258	243.434	140.328	29.464	1.00135.17		A16S
ATOM	26551	C8	G	A1258	242.565	139.495	28.957	1.00135.17		A16S
ATOM	26552	C2*	G	A1258	241.322	138.807	25.970	1.00121.55		A16S
ATOM	26553	O2*	G	A1258	240.434	138.950	24.883	1.00121.55		A16S
ATOM	26554	C3*	G	A1258	241.487	137.359	26.409	1.00121.55		A16S
ATOM	26555	O3*	G	A1258	241.603	136.490	25.296	1.00121.55		A16S
ATOM	26556	P	C	A1259	242.995	136.428	24.491	1.00	85.53	A16S
ATOM	26557	O1P	C	A1259	242.890	135.338	23.494	1.00113.33		A16S
ATOM	26558	O2P	C	A1259	244.120	136.425	25.457	1.00113.33		A16S



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ATOM	26559	O5*	C	A1259	243.022	137.808	23.705	1.00	85.53	A16S
ATOM	26560	C5*	C	A1259	242.047	138.064	22.694	1.00	85.53	A16S
ATOM	26561	C4*	C	A1259	242.330	139.368	22.002	1.00	85.53	A16S
ATOM	26562	O4*	C	A1259	242.076	140.473	22.904	1.00	85.53	A16S
ATOM	26563	C1*	C	A1259	242.965	141.537	22.610	1.00	85.53	A16S
ATOM	26564	N1	C	A1259	243.758	141.833	23.820	1.00113.33		A16S
ATOM	26565	C6	C	A1259	243.997	140.861	24.754	1.00113.33		A16S
ATOM	26566	C2	C	A1259	244.280	143.127	23.995	1.00113.33		A16S
ATOM	26567	O2	C	A1259	244.043	143.999	23.144	1.00113.33		A16S
ATOM	26568	N3	C	A1259	245.029	143.389	25.084	1.00113.33		A16S
ATOM	26569	C4	C	A1259	245.269	142.427	25.976	1.00113.33		A16S
ATOM	26570	N4	C	A1259	246.033	142.727	27.024	1.00113.33		A16S
ATOM	26571	C5	C	A1259	244.741	141.113	25.833	1.00113.33		A16S
ATOM	26572	C2*	C	A1259	243.838	141.102	21.426	1.00	85.53	A16S
ATOM	26573	O2*	C	A1259	243.298	141.632	20.230	1.00	85.53	A16S
ATOM	26574	C3*	C	A1259	243.751	139.581	21.518	1.00	85.53	A16S
ATOM	26575	O3*	C	A1259	243.988	138.929	20.279	1.00	85.53	A16S
ATOM	26576	P	C	A1260	245.422	138.273	20.001	1.00111.62		A16S
ATOM	26577	O1P	C	A1260	245.378	137.620	18.674	1.00116.00		A16S
ATOM	26578	O2P	C	A1260	245.795	137.475	21.203	1.00116.00		A16S
ATOM	26579	O5*	C	A1260	246.362	139.550	19.874	1.00111.62		A16S
ATOM	26580	C5*	C	A1260	247.757	139.509	20.237	1.00111.62		A16S
ATOM	26581	C4*	C	A1260	248.157	140.813	20.895	1.00111.62		A16S
ATOM	26582	O4*	C	A1260	247.363	140.997	22.097	1.00111.62		A16S
ATOM	26583	C1*	C	A1260	248.164	141.550	23.123	1.00111.62		A16S
ATOM	26584	N1	C	A1260	248.248	140.561	24.219	1.00116.00		A16S
ATOM	26585	C6	C	A1260	247.798	139.281	24.038	1.00116.00		A16S
ATOM	26586	C2	C	A1260	248.787	140.951	25.458	1.00116.00		A16S
ATOM	26587	O2	C	A1260	249.195	142.113	25.603	1.00116.00		A16S
ATOM	26588	N3	C	A1260	248.846	140.049	26.465	1.00116.00		A16S
ATOM	26589	C4	C	A1260	248.391	138.806	26.278	1.00116.00		A16S
ATOM	26590	N4	C	A1260	248.452	137.952	27.310	1.00116.00		A16S
ATOM	26591	C5	C	A1260	247.847	138.382	25.029	1.00116.00		A16S
ATOM	26592	C2*	C	A1260	249.514	141.910	22.504	1.00111.62		A16S
ATOM	26593	O2*	C	A1260	249.431	143.239	22.035	1.00111.62		A16S
ATOM	26594	C3*	C	A1260	249.603	140.915	21.355	1.00111.62		A16S
ATOM	26595	O3*	C	A1260	250.421	141.394	20.293	1.00111.62		A16S
ATOM	26596	P	A	A1261	251.997	141.611	20.526	1.00	93.89	A16S
ATOM	26597	O1P	A	A1261	252.717	141.021	19.370	1.00123.81		A16S
ATOM	26598	O2P	A	A1261	252.319	141.145	21.898	1.00123.81		A16S
ATOM	26599	O5*	A	A1261	252.172	143.195	20.447	1.00	93.89	A16S
ATOM	26600	C5*	A	A1261	251.423	143.969	19.482	1.00	93.89	A16S
ATOM	26601	C4*	A	A1261	251.660	145.455	19.675	1.00	93.89	A16S
ATOM	26602	O4*	A	A1261	251.148	145.877	20.964	1.00	93.89	A16S
ATOM	26603	C1*	A	A1261	252.019	146.837	21.538	1.00	93.89	A16S
ATOM	26604	N9	A	A1261	252.583	146.253	22.758	1.00123.81		A16S
ATOM	26605	C4	A	A1261	253.464	146.841	23.633	1.00123.81		A16S
ATOM	26606	N3	A	A1261	253.990	148.075	23.557	1.00123.81		A16S
ATOM	26607	C2	A	A1261	254.801	148.297	24.585	1.00123.81		A16S
ATOM	26608	N1	A	A1261	255.123	147.488	25.602	1.00123.81		A16S
ATOM	26609	C6	A	A1261	254.575	146.255	25.644	1.00123.81		A16S
ATOM	26610	N6	A	A1261	254.892	145.443	26.654	1.00123.81		A16S
ATOM	26611	C5	A	A1261	253.701	145.899	24.618	1.00123.81		A16S
ATOM	26612	N7	A	A1261	252.986	144.740	24.373	1.00123.81		A16S
ATOM	26613	C8	A	A1261	252.341	144.998	23.264	1.00123.81		A16S
ATOM	26614	C2*	A	A1261	253.085	147.173	20.493	1.00	93.89	A16S
ATOM	26615	O2*	A	A1261	252.668	148.303	19.751	1.00	93.89	A16S
ATOM	26616	C3*	A	A1261	253.113	145.896	19.662	1.00	93.89	A16S
ATOM	26617	O3*	A	A1261	253.564	146.130	18.335	1.00	93.89	A16S
ATOM	26618	P	C	A1262	254.938	145.467	17.839	1.00138.96		A16S
ATOM	26619	O1P	C	A1262	255.300	146.168	16.576	1.00	95.83	A16S
ATOM	26620	O2P	C	A1262	254.809	143.988	17.850	1.00	95.83	A16S
ATOM	26621	O5*	C	A1262	255.981	145.839	18.986	1.00138.96		A16S
ATOM	26622	C5*	C	A1262	256.406	147.200	19.202	1.00138.96		A16S
ATOM	26623	C4*	C	A1262	257.305	147.278	20.415	1.00138.96		A16S
ATOM	26624	O4*	C	A1262	256.532	147.002	21.608	1.00138.96		A16S
ATOM	26625	C1*	C	A1262	257.345	146.325	22.550	1.00138.96		A16S
ATOM	26626	N1	C	A1262	256.670	145.088	22.972	1.00	95.83	A16S
ATOM	26627	C6	C	A1262	255.778	144.448	22.157	1.00	95.83	A16S
ATOM	26628	C2	C	A1262	256.954	144.578	24.247	1.00	95.83	A16S
ATOM	26629	O2	C	A1262	257.800	145.151	24.949	1.00	95.83	A16S
ATOM	26630	N3	C	A1262	256.313	143.475	24.677	1.00	95.83	A16S
ATOM	26631	C4	C	A1262	255.433	142.867	23.885	1.00	95.83	A16S
ATOM	26632	N4	C	A1262	254.815	141.788	24.363	1.00	95.83	A16S
ATOM	26633	C5	C	A1262	255.145	143.343	22.567	1.00	95.83	A16S
ATOM	26634	C2*	C	A1262	258.730	146.109	21.940	1.00138.96		A16S
ATOM	26635	O2*	C	A1262	259.626	147.069	22.459	1.00138.96		A16S



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ATOM	26636	C3* C	A1262	258.449	146.273	20.449	1.00138.96	A16S
ATOM	26637	O3* C	A1262	259.585	146.754	19.737	1.00138.96	A16S
ATOM	26638	P C	A1263	260.719	145.722	19.256	1.00100.43	A16S
ATOM	26639	O1P C	A1263	261.730	146.520	18.509	1.00136.89	A16S
ATOM	26640	O2P C	A1263	260.070	144.562	18.601	1.00136.89	A16S
ATOM	26641	O5* C	A1263	261.362	145.200	20.618	1.00100.43	A16S
ATOM	26642	C5* C	A1263	262.214	146.057	21.406	1.00100.43	A16S
ATOM	26643	C4* C	A1263	262.696	145.331	22.640	1.00100.43	A16S
ATOM	26644	O4* C	A1263	261.585	145.075	23.531	1.00100.43	A16S
ATOM	26645	C1* C	A1263	261.807	143.860	24.217	1.00100.43	A16S
ATOM	26646	N1 C	A1263	260.647	142.983	24.021	1.00136.89	A16S
ATOM	26647	C6 C	A1263	259.814	143.139	22.947	1.00136.89	A16S
ATOM	26648	C2 C	A1263	260.406	141.977	24.963	1.00136.89	A16S
ATOM	26649	O2 C	A1263	261.185	141.848	25.921	1.00136.89	A16S
ATOM	26650	N3 C	A1263	259.339	141.173	24.808	1.00136.89	A16S
ATOM	26651	C4 C	A1263	258.528	141.336	23.765	1.00136.89	A16S
ATOM	26652	N4 C	A1263	257.479	140.521	23.665	1.00136.89	A16S
ATOM	26653	C5 C	A1263	258.754	142.344	22.780	1.00136.89	A16S
ATOM	26654	C2* C	A1263	263.116	143.248	23.717	1.00100.43	A16S
ATOM	26655	O2* C	A1263	264.147	143.494	24.645	1.00100.43	A16S
ATOM	26656	C3* C	A1263	263.314	143.969	22.392	1.00100.43	A16S
ATOM	26657	O3* C	A1263	264.684	144.088	22.066	1.00100.43	A16S
ATOM	26658	P C	A1264	265.381	142.954	21.175	1.00 85.70	A16S
ATOM	26659	O1P C	A1264	266.751	143.429	20.835	1.00131.50	A16S
ATOM	26660	O2P C	A1264	264.438	142.597	20.082	1.00131.50	A16S
ATOM	26661	O5* C	A1264	265.508	141.712	22.168	1.00 85.70	A16S
ATOM	26662	C5* C	A1264	266.451	141.741	23.244	1.00 85.70	A16S
ATOM	26663	C4* C	A1264	266.215	140.592	24.186	1.00 85.70	A16S
ATOM	26664	O4* C	A1264	264.870	140.665	24.710	1.00 85.70	A16S
ATOM	26665	C1* C	A1264	264.391	139.359	24.967	1.00 85.70	A16S
ATOM	26666	N1 C	A1264	263.108	139.178	24.261	1.00131.50	A16S
ATOM	26667	C6 C	A1264	262.735	140.028	23.256	1.00131.50	A16S
ATOM	26668	C2 C	A1264	262.266	138.111	24.635	1.00131.50	A16S
ATOM	26669	O2 C	A1264	262.613	137.356	25.564	1.00131.50	A16S
ATOM	26670	N3 C	A1264	261.099	137.933	23.974	1.00131.50	A16S
ATOM	26671	C4 C	A1264	260.756	138.763	22.986	1.00131.50	A16S
ATOM	26672	N4 C	A1264	259.608	138.536	22.348	1.00131.50	A16S
ATOM	26673	C5 C	A1264	261.580	139.861	22.601	1.00131.50	A16S
ATOM	26674	C2* C	A1264	265.485	138.365	24.566	1.00 85.70	A16S
ATOM	26675	O2* C	A1264	266.196	137.968	25.723	1.00 85.70	A16S
ATOM	26676	C3* C	A1264	266.328	139.196	23.603	1.00 85.70	A16S
ATOM	26677	O3* C	A1264	267.688	138.780	23.588	1.00 85.70	A16S
ATOM	26678	P G	A1265	268.208	137.782	22.439	1.00109.81	A16S
ATOM	26679	O1P G	A1265	269.683	137.688	22.590	1.00102.41	A16S
ATOM	26680	O2P G	A1265	267.633	138.196	21.130	1.00102.41	A16S
ATOM	26681	O5* G	A1265	267.591	136.379	22.865	1.00109.81	A16S
ATOM	26682	C5* G	A1265	268.078	135.697	24.032	1.00109.81	A16S
ATOM	26683	C4* G	A1265	267.367	134.383	24.204	1.00109.81	A16S
ATOM	26684	O4* G	A1265	266.002	134.617	24.625	1.00109.81	A16S
ATOM	26685	C1* G	A1265	265.149	133.649	24.034	1.00109.81	A16S
ATOM	26686	N9 G	A1265	264.176	134.343	23.190	1.00102.41	A16S
ATOM	26687	C4 G	A1265	262.938	133.874	22.805	1.00102.41	A16S
ATOM	26688	N3 G	A1265	262.418	132.666	23.107	1.00102.41	A16S
ATOM	26689	C2 G	A1265	261.206	132.512	22.608	1.00102.41	A16S
ATOM	26690	N2 G	A1265	260.562	131.353	22.792	1.00102.41	A16S
ATOM	26691	N1 G	A1265	260.543	133.481	21.887	1.00102.41	A16S
ATOM	26692	C6 G	A1265	261.056	134.737	21.570	1.00102.41	A16S
ATOM	26693	O6 G	A1265	260.370	135.548	20.926	1.00102.41	A16S
ATOM	26694	C5 G	A1265	262.369	134.901	22.078	1.00102.41	A16S
ATOM	26695	N7 G	A1265	263.241	135.974	21.974	1.00102.41	A16S
ATOM	26696	C8 G	A1265	264.299	135.599	22.642	1.00102.41	A16S
ATOM	26697	C2* G	A1265	266.027	132.680	23.245	1.00109.81	A16S
ATOM	26698	O2* G	A1265	266.370	131.570	24.055	1.00109.81	A16S
ATOM	26699	C3* G	A1265	267.234	133.550	22.944	1.00109.81	A16S
ATOM	26700	O3* G	A1265	268.376	132.770	22.677	1.00109.81	A16S
ATOM	26701	P G	A1266	268.734	132.413	21.159	1.00121.05	A16S
ATOM	26702	O1P G	A1266	269.967	131.593	21.207	1.00 97.08	A16S
ATOM	26703	O2P G	A1266	268.711	133.678	20.367	1.00 97.08	A16S
ATOM	26704	O5* G	A1266	267.520	131.492	20.682	1.00121.05	A16S
ATOM	26705	C5* G	A1266	267.392	130.130	21.150	1.00121.05	A16S
ATOM	26706	C4* G	A1266	266.129	129.481	20.608	1.00121.05	A16S
ATOM	26707	O4* G	A1266	264.956	130.129	21.169	1.00121.05	A16S
ATOM	26708	C1* G	A1266	263.888	130.069	20.238	1.00121.05	A16S
ATOM	26709	N9 G	A1266	263.527	131.424	19.825	1.00 97.08	A16S
ATOM	26710	C4 G	A1266	262.288	131.816	19.401	1.00 97.08	A16S
ATOM	26711	N3 G	A1266	261.193	131.031	19.353	1.00 97.08	A16S
ATOM	26712	C2 G	A1266	260.151	131.668	18.863	1.00 97.08	A16S



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ATOM	26713	N2	G	A1266	258.984	131.017	18.738	1.00	97.08	A16S
ATOM	26714	N1	G	A1266	260.178	132.985	18.457	1.00	97.08	A16S
ATOM	26715	C6	G	A1266	261.296	133.816	18.499	1.00	97.08	A16S
ATOM	26716	O6	G	A1266	261.215	134.988	18.103	1.00	97.08	A16S
ATOM	26717	C5	G	A1266	262.425	133.137	19.023	1.00	97.08	A16S
ATOM	26718	N7	G	A1266	263.724	133.581	19.237	1.00	97.08	A16S
ATOM	26719	C8	G	A1266	264.340	132.535	19.724	1.00	97.08	A16S
ATOM	26720	C2*	G	A1266	264.384	129.285	19.027	1.00121.05		A16S
ATOM	26721	O2*	G	A1266	264.062	127.920	19.196	1.00121.05		A16S
ATOM	26722	C3*	G	A1266	265.882	129.525	19.106	1.00121.05		A16S
ATOM	26723	O3*	G	A1266	266.589	128.537	18.382	1.00121.05		A16S
ATOM	26724	P	C	A1267	267.453	128.968	17.095	1.00113.28		A16S
ATOM	26725	O1P	C	A1267	268.100	127.716	16.622	1.00	91.42	A16S
ATOM	26726	O2P	C	A1267	268.291	130.152	17.432	1.00	91.42	A16S
ATOM	26727	O5*	C	A1267	266.399	129.458	16.001	1.00113.28		A16S
ATOM	26728	C5*	C	A1267	266.812	130.362	14.945	1.00113.28		A16S
ATOM	26729	C4*	C	A1267	265.945	130.191	13.715	1.00113.28		A16S
ATOM	26730	O4*	C	A1267	266.119	128.859	13.175	1.00113.28		A16S
ATOM	26731	C1*	C	A1267	264.883	128.380	12.678	1.00113.28		A16S
ATOM	26732	N1	C	A1267	264.538	127.147	13.417	1.00	91.42	A16S
ATOM	26733	C6	C	A1267	264.882	127.000	14.732	1.00	91.42	A16S
ATOM	26734	C2	C	A1267	263.863	126.112	12.745	1.00	91.42	A16S
ATOM	26735	O2	C	A1267	263.533	126.274	11.558	1.00	91.42	A16S
ATOM	26736	N3	C	A1267	263.585	124.965	13.410	1.00	91.42	A16S
ATOM	26737	C4	C	A1267	263.941	124.831	14.688	1.00	91.42	A16S
ATOM	26738	N4	C	A1267	263.654	123.681	15.301	1.00	91.42	A16S
ATOM	26739	C5	C	A1267	264.609	125.870	15.397	1.00	91.42	A16S
ATOM	26740	C2*	C	A1267	263.855	129.506	12.814	1.00113.28		A16S
ATOM	26741	O2*	C	A1267	263.805	130.237	11.607	1.00113.28		A16S
ATOM	26742	C3*	C	A1267	264.450	130.338	13.939	1.00113.28		A16S
ATOM	26743	O3*	C	A1267	264.059	131.701	13.840	1.00113.28		A16S
ATOM	26744	P	A	A1268	263.157	132.348	14.997	1.00102.48		A16S
ATOM	26745	O1P	A	A1268	262.916	133.776	14.658	1.00	87.92	A16S
ATOM	26746	O2P	A	A1268	263.795	132.000	16.293	1.00	87.92	A16S
ATOM	26747	O5*	A	A1268	261.780	131.548	14.894	1.00102.48		A16S
ATOM	26748	C5*	A	A1268	260.916	131.700	13.744	1.00102.48		A16S
ATOM	26749	C4*	A	A1268	259.858	130.616	13.723	1.00102.48		A16S
ATOM	26750	O4*	A	A1268	260.511	129.329	13.712	1.00102.48		A16S
ATOM	26751	C1*	A	A1268	259.754	128.401	14.456	1.00102.48		A16S
ATOM	26752	N9	A	A1268	260.614	127.889	15.511	1.00	87.92	A16S
ATOM	26753	C4	A	A1268	260.589	126.626	16.044	1.00	87.92	A16S
ATOM	26754	N3	A	A1268	259.762	125.621	15.720	1.00	87.92	A16S
ATOM	26755	C2	A	A1268	260.043	124.529	16.434	1.00	87.92	A16S
ATOM	26756	N1	A	A1268	260.981	124.343	17.367	1.00	87.92	A16S
ATOM	26757	C6	A	A1268	261.794	125.378	17.675	1.00	87.92	A16S
ATOM	26758	N6	A	A1268	262.725	125.199	18.617	1.00	87.92	A16S
ATOM	26759	C5	A	A1268	261.603	126.592	16.981	1.00	87.92	A16S
ATOM	26760	N7	A	A1268	262.252	127.820	17.042	1.00	87.92	A16S
ATOM	26761	C8	A	A1268	261.624	128.553	16.158	1.00	87.92	A16S
ATOM	26762	C2*	A	A1268	258.488	129.098	14.952	1.00102.48		A16S
ATOM	26763	O2*	A	A1268	257.438	128.780	14.059	1.00102.48		A16S
ATOM	26764	C3*	A	A1268	258.898	130.567	14.903	1.00102.48		A16S
ATOM	26765	O3*	A	A1268	257.785	131.408	14.624	1.00102.48		A16S
ATOM	26766	P	A	A1269	256.856	131.943	15.821	1.00	73.52	A16S
ATOM	26767	O1P	A	A1269	256.006	133.021	15.224	1.00	97.44	A16S
ATOM	26768	O2P	A	A1269	257.722	132.259	16.976	1.00	97.44	A16S
ATOM	26769	O5*	A	A1269	255.961	130.682	16.229	1.00	73.52	A16S
ATOM	26770	C5*	A	A1269	254.962	130.156	15.327	1.00	73.52	A16S
ATOM	26771	C4*	A	A1269	254.401	128.861	15.860	1.00	73.52	A16S
ATOM	26772	O4*	A	A1269	255.454	127.874	15.916	1.00	73.52	A16S
ATOM	26773	C1*	A	A1269	255.265	127.045	17.044	1.00	73.52	A16S
ATOM	26774	N9	A	A1269	256.449	127.141	17.888	1.00	97.44	A16S
ATOM	26775	C4	A	A1269	257.147	126.083	18.412	1.00	97.44	A16S
ATOM	26776	N3	A	A1269	256.895	124.773	18.240	1.00	97.44	A16S
ATOM	26777	C2	A	A1269	257.787	124.035	18.894	1.00	97.44	A16S
ATOM	26778	N1	A	A1269	258.819	124.426	19.647	1.00	97.44	A16S
ATOM	26779	C6	A	A1269	259.040	125.749	19.804	1.00	97.44	A16S
ATOM	26780	N6	A	A1269	260.069	126.143	20.560	1.00	97.44	A16S
ATOM	26781	C5	A	A1269	258.167	126.639	19.155	1.00	97.44	A16S
ATOM	26782	N7	A	A1269	258.117	128.025	19.096	1.00	97.44	A16S
ATOM	26783	C8	A	A1269	257.085	128.270	18.332	1.00	97.44	A16S
ATOM	26784	C2*	A	A1269	254.002	127.498	17.777	1.00	73.52	A16S
ATOM	26785	O2*	A	A1269	252.924	126.636	17.475	1.00	73.52	A16S
ATOM	26786	C3*	A	A1269	253.836	128.925	17.270	1.00	73.52	A16S
ATOM	26787	O3*	A	A1269	252.461	129.283	17.248	1.00	73.52	A16S
ATOM	26788	P	C	A1270	251.927	130.466	18.186	1.00	96.35	A16S
ATOM	26789	O1P	C	A1270	250.466	130.237	18.328	1.00	85.71	A16S



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ATOM	26790	O2P	C	A1270	252.413	131.747	17.612	1.00	85.71	A16S
ATOM	26791	O5*	C	A1270	252.648	130.224	19.593	1.00	96.35	A16S
ATOM	26792	C5*	C	A1270	252.406	129.022	20.362	1.00	96.35	A16S
ATOM	26793	C4*	C	A1270	253.567	128.738	21.301	1.00	96.35	A16S
ATOM	26794	O4*	C	A1270	254.806	128.894	20.557	1.00	96.35	A16S
ATOM	26795	C1*	C	A1270	255.830	129.361	21.422	1.00	96.35	A16S
ATOM	26796	N1	C	A1270	256.252	130.709	20.987	1.00	85.71	A16S
ATOM	26797	C6	C	A1270	255.463	131.464	20.162	1.00	85.71	A16S
ATOM	26798	C2	C	A1270	257.482	131.220	21.452	1.00	85.71	A16S
ATOM	26799	O2	C	A1270	258.189	130.511	22.190	1.00	85.71	A16S
ATOM	26800	N3	C	A1270	257.863	132.469	21.082	1.00	85.71	A16S
ATOM	26801	C4	C	A1270	257.080	133.196	20.277	1.00	85.71	A16S
ATOM	26802	N4	C	A1270	257.495	134.424	19.929	1.00	85.71	A16S
ATOM	26803	C5	C	A1270	255.834	132.699	19.787	1.00	85.71	A16S
ATOM	26804	C2*	C	A1270	255.245	129.421	22.828	1.00	96.35	A16S
ATOM	26805	O2*	C	A1270	255.477	128.191	23.492	1.00	96.35	A16S
ATOM	26806	C3*	C	A1270	253.769	129.628	22.530	1.00	96.35	A16S
ATOM	26807	O3*	C	A1270	253.000	129.257	23.673	1.00	96.35	A16S
ATOM	26808	P	G	A1271	252.840	130.298	24.901	1.00123.02		A16S
ATOM	26809	O1P	G	A1271	251.948	129.634	25.892	1.00102.60		A16S
ATOM	26810	O2P	G	A1271	252.488	131.649	24.378	1.00102.60		A16S
ATOM	26811	O5*	G	A1271	254.299	130.412	25.536	1.00123.02		A16S
ATOM	26812	C5*	G	A1271	254.873	129.314	26.271	1.00123.02		A16S
ATOM	26813	C4*	G	A1271	256.245	129.677	26.803	1.00123.02		A16S
ATOM	26814	O4*	G	A1271	257.135	130.010	25.707	1.00123.02		A16S
ATOM	26815	C1*	G	A1271	258.061	131.001	26.125	1.00123.02		A16S
ATOM	26816	N9	G	A1271	257.827	132.211	25.348	1.00102.60		A16S
ATOM	26817	C4	G	A1271	258.700	133.263	25.200	1.00102.60		A16S
ATOM	26818	N3	G	A1271	259.923	133.370	25.769	1.00102.60		A16S
ATOM	26819	C2	G	A1271	260.532	134.503	25.433	1.00102.60		A16S
ATOM	26820	N2	G	A1271	261.750	134.790	25.933	1.00102.60		A16S
ATOM	26821	N1	G	A1271	259.992	135.442	24.590	1.00102.60		A16S
ATOM	26822	C6	G	A1271	258.740	135.353	23.987	1.00102.60		A16S
ATOM	26823	O6	G	A1271	258.356	136.255	23.233	1.00102.60		A16S
ATOM	26824	C5	G	A1271	258.062	134.152	24.359	1.00102.60		A16S
ATOM	26825	N7	G	A1271	256.801	133.680	24.008	1.00102.60		A16S
ATOM	26826	C8	G	A1271	256.705	132.530	24.618	1.00102.60		A16S
ATOM	26827	C2*	G	A1271	257.803	131.273	27.598	1.00123.02		A16S
ATOM	26828	O2*	G	A1271	258.643	130.438	28.372	1.00123.02		A16S
ATOM	26829	C3*	G	A1271	256.338	130.889	27.713	1.00123.02		A16S
ATOM	26830	O3*	G	A1271	255.998	130.608	29.049	1.00123.02		A16S
ATOM	26831	P	G	A1272	255.583	131.817	30.017	1.00106.96		A16S
ATOM	26832	O1P	G	A1272	255.254	131.171	31.314	1.00	97.27	A16S
ATOM	26833	O2P	G	A1272	254.572	132.666	29.333	1.00	97.27	A16S
ATOM	26834	O5*	G	A1272	256.908	132.697	30.149	1.00106.96		A16S
ATOM	26835	C5*	G	A1272	257.901	132.402	31.151	1.00106.96		A16S
ATOM	26836	C4*	G	A1272	258.846	133.569	31.315	1.00106.96		A16S
ATOM	26837	O4*	G	A1272	259.506	133.814	30.049	1.00106.96		A16S
ATOM	26838	C1*	G	A1272	259.712	135.202	29.877	1.00106.96		A16S
ATOM	26839	N9	G	A1272	258.936	135.629	28.722	1.00	97.27	A16S
ATOM	26840	C4	G	A1272	259.181	136.729	27.935	1.00	97.27	A16S
ATOM	26841	N3	G	A1272	260.209	137.593	28.074	1.00	97.27	A16S
ATOM	26842	C2	G	A1272	260.163	138.568	27.179	1.00	97.27	A16S
ATOM	26843	N2	G	A1272	261.105	139.520	27.175	1.00	97.27	A16S
ATOM	26844	N1	G	A1272	259.188	138.683	26.221	1.00	97.27	A16S
ATOM	26845	C6	G	A1272	258.120	137.807	26.055	1.00	97.27	A16S
ATOM	26846	O6	G	A1272	257.290	138.007	25.155	1.00	97.27	A16S
ATOM	26847	C5	G	A1272	258.156	136.752	27.013	1.00	97.27	A16S
ATOM	26848	N7	G	A1272	257.296	135.676	27.204	1.00	97.27	A16S
ATOM	26849	C8	G	A1272	257.801	135.035	28.222	1.00	97.27	A16S
ATOM	26850	C2*	G	A1272	259.223	135.908	31.141	1.00106.96		A16S
ATOM	26851	O2*	G	A1272	260.310	136.116	32.015	1.00106.96		A16S
ATOM	26852	C3*	G	A1272	258.215	134.904	31.683	1.00106.96		A16S
ATOM	26853	O3*	G	A1272	258.027	135.048	33.087	1.00106.96		A16S
ATOM	26854	P	G	A1273	256.978	136.134	33.642	1.00126.66		A16S
ATOM	26855	O1P	G	A1273	257.111	136.074	35.117	1.00121.08		A16S
ATOM	26856	O2P	G	A1273	255.645	135.947	33.017	1.00121.08		A16S
ATOM	26857	O5*	G	A1273	257.547	137.526	33.121	1.00126.66		A16S
ATOM	26858	C5*	G	A1273	258.771	138.043	33.645	1.00126.66		A16S
ATOM	26859	C4*	G	A1273	259.179	139.293	32.909	1.00126.66		A16S
ATOM	26860	O4*	G	A1273	259.455	138.981	31.519	1.00126.66		A16S
ATOM	26861	C1*	G	A1273	259.165	140.113	30.714	1.00126.66		A16S
ATOM	26862	N9	G	A1273	258.126	139.769	29.751	1.00121.08		A16S
ATOM	26863	C4	G	A1273	257.770	140.525	28.661	1.00121.08		A16S
ATOM	26864	N3	G	A1273	258.357	141.677	28.273	1.00121.08		A16S
ATOM	26865	C2	G	A1273	257.776	142.191	27.206	1.00121.08		A16S
ATOM	26866	N2	G	A1273	258.242	143.326	26.686	1.00121.08		A16S



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ATOM	26867	N1	G	A1273	256.698	141.627	26.571	1.00121.08	A16S
ATOM	26868	C6	G	A1273	256.075	140.443	26.951	1.00121.08	A16S
ATOM	26869	O6	G	A1273	255.105	140.024	26.309	1.00121.08	A16S
ATOM	26870	C5	G	A1273	256.696	139.873	28.096	1.00121.08	A16S
ATOM	26871	N7	G	A1273	256.402	138.710	28.799	1.00121.08	A16S
ATOM	26872	C8	G	A1273	257.281	138.684	29.766	1.00121.08	A16S
ATOM	26873	C2*	G	A1273	258.638	141.217	31.631	1.00126.66	A16S
ATOM	26874	O2*	G	A1273	259.666	142.147	31.907	1.00126.66	A16S
ATOM	26875	C3*	G	A1273	258.156	140.415	32.835	1.00126.66	A16S
ATOM	26876	O3*	G	A1273	258.085	141.198	34.020	1.00126.66	A16S
ATOM	26877	P	G	A1274	256.652	141.724	34.536	1.00105.10	A16S
ATOM	26878	O1P	G	A1274	256.873	142.368	35.857	1.00157.70	A16S
ATOM	26879	O2P	G	A1274	255.673	140.602	34.422	1.00157.70	A16S
ATOM	26880	O5*	G	A1274	256.249	142.862	33.490	1.00105.10	A16S
ATOM	26881	C5*	G	A1274	257.032	144.065	33.360	1.00105.10	A16S
ATOM	26882	C4*	G	A1274	256.645	144.807	32.102	1.00105.10	A16S
ATOM	26883	O4*	G	A1274	256.872	143.938	30.962	1.00105.10	A16S
ATOM	26884	C1*	G	A1274	255.840	144.119	30.002	1.00105.10	A16S
ATOM	26885	N9	G	A1274	255.100	142.859	29.880	1.00157.70	A16S
ATOM	26886	C4	G	A1274	254.057	142.589	29.015	1.00157.70	A16S
ATOM	26887	N3	G	A1274	253.536	143.439	28.105	1.00157.70	A16S
ATOM	26888	C2	G	A1274	252.528	142.896	27.444	1.00157.70	A16S
ATOM	26889	N2	G	A1274	251.889	143.602	26.509	1.00157.70	A16S
ATOM	26890	N1	G	A1274	252.069	141.621	27.653	1.00157.70	A16S
ATOM	26891	C6	G	A1274	252.587	140.727	28.582	1.00157.70	A16S
ATOM	26892	O6	G	A1274	252.091	139.599	28.694	1.00157.70	A16S
ATOM	26893	C5	G	A1274	253.670	141.294	29.302	1.00157.70	A16S
ATOM	26894	N7	G	A1274	254.458	140.754	30.309	1.00157.70	A16S
ATOM	26895	C8	G	A1274	255.291	141.712	30.619	1.00157.70	A16S
ATOM	26896	C2*	G	A1274	254.959	145.272	30.489	1.00105.10	A16S
ATOM	26897	O2*	G	A1274	255.402	146.496	29.931	1.00105.10	A16S
ATOM	26898	C3*	G	A1274	255.180	145.209	31.995	1.00105.10	A16S
ATOM	26899	O3*	G	A1274	254.911	146.456	32.635	1.00105.10	A16S
ATOM	26900	P	A	A1275	253.396	147.010	32.711	1.00108.21	A16S
ATOM	26901	O1P	A	A1275	253.284	147.887	33.903	1.00138.91	A16S
ATOM	26902	O2P	A	A1275	252.448	145.876	32.546	1.00138.91	A16S
ATOM	26903	O5*	A	A1275	253.283	147.946	31.434	1.00108.21	A16S
ATOM	26904	C5*	A	A1275	254.198	149.026	31.260	1.00108.21	A16S
ATOM	26905	C4*	A	A1275	253.841	149.808	30.034	1.00108.21	A16S
ATOM	26906	O4*	A	A1275	254.137	149.022	28.848	1.00108.21	A16S
ATOM	26907	C1*	A	A1275	253.179	149.308	27.837	1.00108.21	A16S
ATOM	26908	N9	A	A1275	252.411	148.094	27.550	1.00138.91	A16S
ATOM	26909	C4	A	A1275	251.625	147.887	26.441	1.00138.91	A16S
ATOM	26910	N3	A	A1275	251.445	148.721	25.400	1.00138.91	A16S
ATOM	26911	C2	A	A1275	250.595	148.197	24.521	1.00138.91	A16S
ATOM	26912	N1	A	A1275	249.950	147.023	24.563	1.00138.91	A16S
ATOM	26913	C6	A	A1275	250.152	146.211	25.626	1.00138.91	A16S
ATOM	26914	N6	A	A1275	249.504	145.046	25.677	1.00138.91	A16S
ATOM	26915	C5	A	A1275	251.035	146.649	26.624	1.00138.91	A16S
ATOM	26916	N7	A	A1275	251.457	146.072	27.813	1.00138.91	A16S
ATOM	26917	C8	A	A1275	252.276	146.961	28.320	1.00138.91	A16S
ATOM	26918	C2*	A	A1275	252.246	150.386	28.391	1.00108.21	A16S
ATOM	26919	O2*	A	A1275	252.695	151.668	27.992	1.00108.21	A16S
ATOM	26920	C3*	A	A1275	252.370	150.148	29.888	1.00108.21	A16S
ATOM	26921	O3*	A	A1275	251.951	151.252	30.669	1.00108.21	A16S
ATOM	26922	P	G	A1276	250.455	151.269	31.259	1.00142.13	A16S
ATOM	26923	O1P	G	A1276	250.333	152.464	32.130	1.00115.20	A16S
ATOM	26924	O2P	G	A1276	250.171	149.918	31.822	1.00115.20	A16S
ATOM	26925	O5*	G	A1276	249.537	151.504	29.972	1.00142.13	A16S
ATOM	26926	C5*	G	A1276	249.720	152.675	29.131	1.00142.13	A16S
ATOM	26927	C4*	G	A1276	249.006	152.510	27.799	1.00142.13	A16S
ATOM	26928	O4*	G	A1276	249.532	151.352	27.095	1.00142.13	A16S
ATOM	26929	C1*	G	A1276	248.489	150.701	26.385	1.00142.13	A16S
ATOM	26930	N9	G	A1276	248.273	149.394	27.000	1.00115.20	A16S
ATOM	26931	C4	G	A1276	247.599	148.328	26.450	1.00115.20	A16S
ATOM	26932	N3	G	A1276	247.036	148.292	25.224	1.00115.20	A16S
ATOM	26933	C2	G	A1276	246.467	147.127	24.980	1.00115.20	A16S
ATOM	26934	N2	G	A1276	245.881	146.912	23.799	1.00115.20	A16S
ATOM	26935	N1	G	A1276	246.436	146.084	25.873	1.00115.20	A16S
ATOM	26936	C6	G	A1276	247.002	146.103	27.143	1.00115.20	A16S
ATOM	26937	O6	G	A1276	246.914	145.112	27.874	1.00115.20	A16S
ATOM	26938	C5	G	A1276	247.630	147.340	27.413	1.00115.20	A16S
ATOM	26939	N7	G	A1276	248.316	147.770	28.539	1.00115.20	A16S
ATOM	26940	C8	G	A1276	248.679	148.989	28.250	1.00115.20	A16S
ATOM	26941	C2*	G	A1276	247.239	151.564	26.525	1.00142.13	A16S
ATOM	26942	O2*	G	A1276	247.162	152.460	25.435	1.00142.13	A16S
ATOM	26943	C3*	G	A1276	247.507	152.262	27.851	1.00142.13	A16S



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ATOM	26944	O3*	G	A1276	246.755	153.453	27.989	1.00142.13	A16S
ATOM	26945	P	C	A1277	245.362	153.408	28.784	1.00181.50	A16S
ATOM	26946	O1P	C	A1277	244.820	154.787	28.804	1.00119.46	A16S
ATOM	26947	O2P	C	A1277	245.569	152.678	30.062	1.00119.46	A16S
ATOM	26948	O5*	C	A1277	244.423	152.515	27.858	1.00181.50	A16S
ATOM	26949	C5*	C	A1277	244.105	152.927	26.514	1.00181.50	A16S
ATOM	26950	C4*	C	A1277	243.187	151.923	25.860	1.00181.50	A16S
ATOM	26951	O4*	C	A1277	243.861	150.639	25.799	1.00181.50	A16S
ATOM	26952	C1*	C	A1277	242.914	149.599	25.955	1.00181.50	A16S
ATOM	26953	N1	C	A1277	243.283	148.786	27.128	1.00119.46	A16S
ATOM	26954	C6	C	A1277	243.574	149.369	28.331	1.00119.46	A16S
ATOM	26955	C2	C	A1277	243.318	147.391	26.995	1.00119.46	A16S
ATOM	26956	O2	C	A1277	243.051	146.882	25.898	1.00119.46	A16S
ATOM	26957	N3	C	A1277	243.636	146.632	28.064	1.00119.46	A16S
ATOM	26958	C4	C	A1277	243.907	147.208	29.233	1.00119.46	A16S
ATOM	26959	N4	C	A1277	244.204	146.413	30.261	1.00119.46	A16S
ATOM	26960	C5	C	A1277	243.884	148.626	29.400	1.00119.46	A16S
ATOM	26961	C2*	C	A1277	241.531	150.237	26.082	1.00181.50	A16S
ATOM	26962	O2*	C	A1277	240.921	150.253	24.808	1.00181.50	A16S
ATOM	26963	C3*	C	A1277	241.876	151.635	26.582	1.00181.50	A16S
ATOM	26964	O3*	C	A1277	240.857	152.583	26.262	1.00181.50	A16S
ATOM	26965	P	U	A1278	239.851	153.099	27.414	1.00141.97	A16S
ATOM	26966	O1P	U	A1278	238.812	153.937	26.759	1.00198.40	A16S
ATOM	26967	O2P	U	A1278	240.666	153.674	28.506	1.00198.40	A16S
ATOM	26968	O5*	U	A1278	239.156	151.774	27.968	1.00141.97	A16S
ATOM	26969	C5*	U	A1278	238.543	150.815	27.070	1.00141.97	A16S
ATOM	26970	C4*	U	A1278	237.628	149.879	27.829	1.00141.97	A16S
ATOM	26971	O4*	U	A1278	238.444	149.203	28.812	1.00141.97	A16S
ATOM	26972	C1*	U	A1278	238.066	149.611	30.102	1.00141.97	A16S
ATOM	26973	N1	U	A1278	239.030	150.654	30.507	1.00198.40	A16S
ATOM	26974	C6	U	A1278	238.624	151.894	30.955	1.00198.40	A16S
ATOM	26975	C2	U	A1278	240.396	150.348	30.406	1.00198.40	A16S
ATOM	26976	O2	U	A1278	240.819	149.263	30.030	1.00198.40	A16S
ATOM	26977	N3	U	A1278	241.246	151.364	30.761	1.00198.40	A16S
ATOM	26978	C4	U	A1278	240.900	152.623	31.205	1.00198.40	A16S
ATOM	26979	O4	U	A1278	241.789	153.437	31.472	1.00198.40	A16S
ATOM	26980	C5	U	A1278	239.487	152.859	31.296	1.00198.40	A16S
ATOM	26981	C2*	U	A1278	236.585	149.997	29.992	1.00141.97	A16S
ATOM	26982	O2*	U	A1278	235.802	148.825	30.123	1.00141.97	A16S
ATOM	26983	C3*	U	A1278	236.515	150.597	28.585	1.00141.97	A16S
ATOM	26984	O3*	U	A1278	235.259	150.291	27.970	1.00141.97	A16S
ATOM	26985	P	A	A1279	234.638	151.274	26.849	1.00130.82	A16S
ATOM	26986	O1P	A	A1279	233.363	150.646	26.418	1.00112.52	A16S
ATOM	26987	O2P	A	A1279	234.635	152.679	27.362	1.00112.52	A16S
ATOM	26988	O5*	A	A1279	235.639	151.178	25.611	1.00130.82	A16S
ATOM	26989	C5*	A	A1279	236.415	152.323	25.182	1.00130.82	A16S
ATOM	26990	C4*	A	A1279	237.333	151.931	24.047	1.00130.82	A16S
ATOM	26991	O4*	A	A1279	238.135	150.818	24.493	1.00130.82	A16S
ATOM	26992	C1*	A	A1279	238.357	149.931	23.431	1.00130.82	A16S
ATOM	26993	N9	A	A1279	238.163	148.569	23.921	1.00112.52	A16S
ATOM	26994	C4	A	A1279	237.016	147.816	23.927	1.00112.52	A16S
ATOM	26995	N3	A	A1279	235.807	148.169	23.463	1.00112.52	A16S
ATOM	26996	C2	A	A1279	234.930	147.181	23.644	1.00112.52	A16S
ATOM	26997	N1	A	A1279	235.113	145.970	24.196	1.00112.52	A16S
ATOM	26998	C6	A	A1279	236.345	145.650	24.654	1.00112.52	A16S
ATOM	26999	N6	A	A1279	236.534	144.446	25.207	1.00112.52	A16S
ATOM	27000	C5	A	A1279	237.361	146.612	24.520	1.00112.52	A16S
ATOM	27001	N7	A	A1279	238.701	146.604	24.874	1.00112.52	A16S
ATOM	27002	C8	A	A1279	239.130	147.781	24.498	1.00112.52	A16S
ATOM	27003	C2*	A	A1279	237.584	150.416	22.205	1.00130.82	A16S
ATOM	27004	O2*	A	A1279	238.543	150.977	21.346	1.00130.82	A16S
ATOM	27005	C3*	A	A1279	236.617	151.452	22.795	1.00130.82	A16S
ATOM	27006	O3*	A	A1279	236.526	152.553	21.884	1.00130.82	A16S
ATOM	27007	P	A	A1280	235.390	153.687	22.059	1.00 87.31	A16S
ATOM	27008	O1P	A	A1280	235.300	154.107	23.482	1.00104.59	A16S
ATOM	27009	O2P	A	A1280	234.166	153.200	21.370	1.00104.59	A16S
ATOM	27010	O5*	A	A1280	236.011	154.919	21.243	1.00 87.31	A16S
ATOM	27011	C5*	A	A1280	235.386	155.465	20.045	1.00 87.31	A16S
ATOM	27012	C4*	A	A1280	236.055	154.920	18.790	1.00 87.31	A16S
ATOM	27013	O4*	A	A1280	235.463	155.550	17.621	1.00 87.31	A16S
ATOM	27014	C1*	A	A1280	236.479	156.070	16.787	1.00 87.31	A16S
ATOM	27015	N9	A	A1280	236.005	157.318	16.202	1.00104.59	A16S
ATOM	27016	C4	A	A1280	235.617	157.509	14.902	1.00104.59	A16S
ATOM	27017	N3	A	A1280	235.602	156.601	13.916	1.00104.59	A16S
ATOM	27018	C2	A	A1280	235.151	157.144	12.789	1.00104.59	A16S
ATOM	27019	N1	A	A1280	234.742	158.396	12.555	1.00104.59	A16S
ATOM	27020	C6	A	A1280	234.766	159.281	13.572	1.00104.59	A16S



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ATOM	27021	N6	A	A1280	234.345	160.528	13.345	1.00104.59	A16S
ATOM	27022	C5	A	A1280	235.231	158.831	14.814	1.00104.59	A16S
ATOM	27023	N7	A	A1280	235.385	159.467	16.034	1.00104.59	A16S
ATOM	27024	C8	A	A1280	235.846	158.529	16.819	1.00104.59	A16S
ATOM	27025	C2*	A	A1280	237.692	156.277	17.679	1.00 87.31	A16S
ATOM	27026	O2*	A	A1280	238.859	156.244	16.889	1.00 87.31	A16S
ATOM	27027	C3*	A	A1280	237.565	155.111	18.650	1.00 87.31	A16S
ATOM	27028	O3*	A	A1280	238.125	153.959	18.040	1.00 87.31	A16S
ATOM	27029	P	U	A1281	239.257	153.126	18.809	1.00142.44	A16S
ATOM	27030	O1P	U	A1281	239.698	151.976	17.983	1.00100.32	A16S
ATOM	27031	O2P	U	A1281	238.783	152.900	20.191	1.00100.32	A16S
ATOM	27032	O5*	U	A1281	240.480	154.126	18.889	1.00142.44	A16S
ATOM	27033	C5*	U	A1281	241.363	154.065	19.999	1.00142.44	A16S
ATOM	27034	C4*	U	A1281	242.220	155.285	20.037	1.00142.44	A16S
ATOM	27035	O4*	U	A1281	241.389	156.463	19.945	1.00142.44	A16S
ATOM	27036	C1*	U	A1281	241.859	157.449	20.838	1.00142.44	A16S
ATOM	27037	N1	U	A1281	240.712	157.870	21.666	1.00100.32	A16S
ATOM	27038	C6	U	A1281	240.259	157.148	22.760	1.00100.32	A16S
ATOM	27039	C2	U	A1281	240.050	159.017	21.252	1.00100.32	A16S
ATOM	27040	O2	U	A1281	240.474	159.728	20.363	1.00100.32	A16S
ATOM	27041	N3	U	A1281	238.885	159.301	21.924	1.00100.32	A16S
ATOM	27042	C4	U	A1281	238.335	158.589	22.973	1.00100.32	A16S
ATOM	27043	O4	U	A1281	237.186	158.859	23.341	1.00100.32	A16S
ATOM	27044	C5	U	A1281	239.124	157.461	23.412	1.00100.32	A16S
ATOM	27045	C2*	U	A1281	243.151	156.933	21.490	1.00142.44	A16S
ATOM	27046	O2*	U	A1281	244.243	157.472	20.774	1.00142.44	A16S
ATOM	27047	C3*	U	A1281	243.011	155.421	21.319	1.00142.44	A16S
ATOM	27048	O3*	U	A1281	244.214	154.627	21.248	1.00142.44	A16S
ATOM	27049	P	C	A1282	245.253	154.791	20.008	1.00 87.25	A16S
ATOM	27050	O1P	C	A1282	246.185	155.909	20.308	1.00141.04	A16S
ATOM	27051	O2P	C	A1282	244.556	154.762	18.698	1.00141.04	A16S
ATOM	27052	O5*	C	A1282	246.110	153.458	20.090	1.00 87.25	A16S
ATOM	27053	C5*	C	A1282	247.125	153.331	21.079	1.00 87.25	A16S
ATOM	27054	C4*	C	A1282	246.999	152.018	21.791	1.00 87.25	A16S
ATOM	27055	O4*	C	A1282	245.753	151.961	22.528	1.00 87.25	A16S
ATOM	27056	C1*	C	A1282	245.320	150.612	22.611	1.00 87.25	A16S
ATOM	27057	N1	C	A1282	243.978	150.484	22.011	1.00141.04	A16S
ATOM	27058	C6	C	A1282	243.515	151.393	21.101	1.00141.04	A16S
ATOM	27059	C2	C	A1282	243.189	149.376	22.363	1.00141.04	A16S
ATOM	27060	O2	C	A1282	243.604	148.593	23.231	1.00141.04	A16S
ATOM	27061	N3	C	A1282	241.999	149.189	21.748	1.00141.04	A16S
ATOM	27062	C4	C	A1282	241.581	150.057	20.828	1.00141.04	A16S
ATOM	27063	N4	C	A1282	240.428	149.806	20.210	1.00141.04	A16S
ATOM	27064	C5	C	A1282	242.335	151.216	20.489	1.00141.04	A16S
ATOM	27065	C2*	C	A1282	246.327	149.754	21.839	1.00 87.25	A16S
ATOM	27066	O2*	C	A1282	247.250	149.163	22.735	1.00 87.25	A16S
ATOM	27067	C3*	C	A1282	246.959	150.784	20.912	1.00 87.25	A16S
ATOM	27068	O3*	C	A1282	248.250	150.404	20.452	1.00 87.25	A16S
ATOM	27069	P	G	A1283	248.405	149.710	19.009	1.00112.45	A16S
ATOM	27070	O1P	G	A1283	249.863	149.572	18.725	1.00 82.99	A16S
ATOM	27071	O2P	G	A1283	247.537	150.451	18.047	1.00 82.99	A16S
ATOM	27072	O5*	G	A1283	247.808	148.254	19.251	1.00112.45	A16S
ATOM	27073	C5*	G	A1283	248.368	147.409	20.269	1.00112.45	A16S
ATOM	27074	C4*	G	A1283	247.572	146.136	20.409	1.00112.45	A16S
ATOM	27075	O4*	G	A1283	246.291	146.399	21.045	1.00112.45	A16S
ATOM	27076	C1*	G	A1283	245.321	145.475	20.564	1.00112.45	A16S
ATOM	27077	N9	G	A1283	244.275	146.205	19.841	1.00 82.99	A16S
ATOM	27078	C4	G	A1283	243.004	145.740	19.551	1.00 82.99	A16S
ATOM	27079	N3	G	A1283	242.490	144.548	19.925	1.00 82.99	A16S
ATOM	27080	C2	G	A1283	241.258	144.386	19.485	1.00 82.99	A16S
ATOM	27081	N2	G	A1283	240.600	143.263	19.782	1.00 82.99	A16S
ATOM	27082	N1	G	A1283	240.584	145.316	18.726	1.00 82.99	A16S
ATOM	27083	C6	G	A1283	241.100	146.546	18.322	1.00 82.99	A16S
ATOM	27084	O6	G	A1283	240.421	147.307	17.625	1.00 82.99	A16S
ATOM	27085	C5	G	A1283	242.411	146.739	18.799	1.00 82.99	A16S
ATOM	27086	N7	G	A1283	243.272	147.817	18.638	1.00 82.99	A16S
ATOM	27087	C8	G	A1283	244.361	147.461	19.276	1.00 82.99	A16S
ATOM	27088	C2*	G	A1283	246.045	144.532	19.606	1.00112.45	A16S
ATOM	27089	O2*	G	A1283	246.503	143.396	20.314	1.00112.45	A16S
ATOM	27090	C3*	G	A1283	247.187	145.416	19.130	1.00112.45	A16S
ATOM	27091	O3*	G	A1283	248.243	144.691	18.524	1.00112.45	A16S
ATOM	27092	P	C	A1284	248.178	144.380	16.943	1.00107.63	A16S
ATOM	27093	O1P	C	A1284	249.514	143.833	16.569	1.00 83.55	A16S
ATOM	27094	O2P	C	A1284	247.639	145.582	16.209	1.00 83.55	A16S
ATOM	27095	O5*	C	A1284	247.119	143.187	16.869	1.00107.63	A16S
ATOM	27096	C5*	C	A1284	247.262	142.034	17.736	1.00107.63	A16S
ATOM	27097	C4*	C	A1284	246.134	141.053	17.522	1.00107.63	A16S



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ATOM	27098	O4* C	A1284	244.901	141.576	18.066	1.00107.63	A16S
ATOM	27099	C1* C	A1284	243.818	141.198	17.237	1.00107.63	A16S
ATOM	27100	N1 C	A1284	243.222	142.421	16.680	1.00 83.55	A16S
ATOM	27101	C6 C	A1284	243.983	143.542	16.498	1.00 83.55	A16S
ATOM	27102	C2 C	A1284	241.859	142.427	16.328	1.00 83.55	A16S
ATOM	27103	O2 C	A1284	241.181	141.390	16.493	1.00 83.55	A16S
ATOM	27104	N3 C	A1284	241.317	143.562	15.811	1.00 83.55	A16S
ATOM	27105	C4 C	A1284	242.079	144.650	15.640	1.00 83.55	A16S
ATOM	27106	N4 C	A1284	241.512	145.748	15.129	1.00 83.55	A16S
ATOM	27107	C5 C	A1284	243.459	144.663	15.984	1.00 83.55	A16S
ATOM	27108	C2* C	A1284	244.369	140.292	16.137	1.00107.63	A16S
ATOM	27109	O2* C	A1284	244.240	138.946	16.535	1.00107.63	A16S
ATOM	27110	C3* C	A1284	245.820	140.737	16.075	1.00107.63	A16S
ATOM	27111	O3* C	A1284	246.668	139.728	15.577	1.00107.63	A16S
ATOM	27112	P A	A1285	247.164	139.807	14.061	1.00106.53	A16S
ATOM	27113	O1P A	A1285	245.944	139.793	13.220	1.00 95.05	A16S
ATOM	27114	O2P A	A1285	248.213	138.772	13.868	1.00 95.05	A16S
ATOM	27115	O5* A	A1285	247.813	141.256	13.938	1.00106.53	A16S
ATOM	27116	C5* A	A1285	248.663	141.591	12.823	1.00106.53	A16S
ATOM	27117	C4* A	A1285	248.142	142.824	12.128	1.00106.53	A16S
ATOM	27118	O4* A	A1285	246.782	142.561	11.733	1.00106.53	A16S
ATOM	27119	C1* A	A1285	246.018	143.741	11.836	1.00106.53	A16S
ATOM	27120	N9 A	A1285	244.727	143.395	12.423	1.00 95.05	A16S
ATOM	27121	C4 A	A1285	243.505	143.894	12.033	1.00 95.05	A16S
ATOM	27122	N3 A	A1285	243.267	144.837	11.106	1.00 95.05	A16S
ATOM	27123	C2 A	A1285	241.963	145.038	10.967	1.00 95.05	A16S
ATOM	27124	N1 A	A1285	240.947	144.447	11.595	1.00 95.05	A16S
ATOM	27125	C6 A	A1285	241.218	143.498	12.515	1.00 95.05	A16S
ATOM	27126	N6 A	A1285	240.200	142.892	13.123	1.00 95.05	A16S
ATOM	27127	C5 A	A1285	242.564	143.200	12.767	1.00 95.05	A16S
ATOM	27128	N7 A	A1285	243.179	142.305	13.634	1.00 95.05	A16S
ATOM	27129	C8 A	A1285	244.460	142.471	13.403	1.00 95.05	A16S
ATOM	27130	C2* A	A1285	246.860	144.855	12.463	1.00106.53	A16S
ATOM	27131	O2* A	A1285	247.094	145.848	11.487	1.00106.53	A16S
ATOM	27132	C3* A	A1285	248.083	144.086	12.978	1.00106.53	A16S
ATOM	27133	O3* A	A1285	249.360	144.777	12.990	1.00106.53	A16S
ATOM	27134	P A	A1286	250.030	145.347	11.619	1.00124.11	A16S
ATOM	27135	O1P A	A1286	251.457	145.549	11.964	1.00123.29	A16S
ATOM	27136	O2P A	A1286	249.261	146.485	11.055	1.00123.29	A16S
ATOM	27137	O5* A	A1286	249.987	144.134	10.580	1.00124.11	A16S
ATOM	27138	C5* A	A1286	251.200	143.443	10.213	1.00124.11	A16S
ATOM	27139	C4* A	A1286	250.974	142.506	9.042	1.00124.11	A16S
ATOM	27140	O4* A	A1286	250.199	141.342	9.452	1.00124.11	A16S
ATOM	27141	C1* A	A1286	249.442	140.857	8.346	1.00124.11	A16S
ATOM	27142	N9 A	A1286	248.015	140.992	8.651	1.00123.29	A16S
ATOM	27143	C4 A	A1286	247.170	140.021	9.126	1.00123.29	A16S
ATOM	27144	N3 A	A1286	247.476	138.747	9.424	1.00123.29	A16S
ATOM	27145	C2 A	A1286	246.397	138.101	9.861	1.00123.29	A16S
ATOM	27146	N1 A	A1286	245.145	138.556	10.023	1.00123.29	A16S
ATOM	27147	C6 A	A1286	244.879	139.845	9.711	1.00123.29	A16S
ATOM	27148	N6 A	A1286	243.640	140.309	9.869	1.00123.29	A16S
ATOM	27149	C5 A	A1286	245.929	140.627	9.236	1.00123.29	A16S
ATOM	27150	N7 A	A1286	245.985	141.952	8.837	1.00123.29	A16S
ATOM	27151	C8 A	A1286	247.236	142.123	8.505	1.00123.29	A16S
ATOM	27152	C2* A	A1286	249.790	141.731	7.145	1.00124.11	A16S
ATOM	27153	O2* A	A1286	250.804	141.110	6.375	1.00124.11	A16S
ATOM	27154	C3* A	A1286	250.216	143.027	7.831	1.00124.11	A16S
ATOM	27155	O3* A	A1286	250.939	143.881	6.962	1.00124.11	A16S
ATOM	27156	P A	A1287	250.126	144.932	6.046	1.00125.34	A16S
ATOM	27157	O1P A	A1287	251.067	145.405	4.982	1.00 81.94	A16S
ATOM	27158	O2P A	A1287	249.444	145.923	6.940	1.00 81.94	A16S
ATOM	27159	O5* A	A1287	249.008	144.037	5.335	1.00125.34	A16S
ATOM	27160	C5* A	A1287	247.604	144.412	5.321	1.00125.34	A16S
ATOM	27161	C4* A	A1287	246.747	143.176	5.138	1.00125.34	A16S
ATOM	27162	O4* A	A1287	245.345	143.529	5.089	1.00125.34	A16S
ATOM	27163	C1* A	A1287	244.662	142.650	4.208	1.00125.34	A16S
ATOM	27164	N9 A	A1287	243.976	143.443	3.183	1.00 81.94	A16S
ATOM	27165	C4 A	A1287	242.866	143.047	2.469	1.00 81.94	A16S
ATOM	27166	N3 A	A1287	242.239	141.862	2.530	1.00 81.94	A16S
ATOM	27167	C2 A	A1287	241.188	141.845	1.719	1.00 81.94	A16S
ATOM	27168	N1 A	A1287	240.717	142.804	0.913	1.00 81.94	A16S
ATOM	27169	C6 A	A1287	241.364	143.984	0.868	1.00 81.94	A16S
ATOM	27170	N6 A	A1287	240.884	144.939	0.063	1.00 81.94	A16S
ATOM	27171	C5 A	A1287	242.513	144.131	1.684	1.00 81.94	A16S
ATOM	27172	N7 A	A1287	243.405	145.181	1.869	1.00 81.94	A16S
ATOM	27173	C8 A	A1287	244.257	144.720	2.755	1.00 81.94	A16S
ATOM	27174	C2* A	A1287	245.678	141.656	3.652	1.00125.34	A16S



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ATOM	27175	O2* A	A1287	245.646	140.465	4.412	1.00125.34	A16S
ATOM	27176	C3* A	A1287	246.980	142.411	3.849	1.00125.34	A16S
ATOM	27177	O3* A	A1287	248.061	141.519	3.990	1.00125.34	A16S
ATOM	27178	P A	A1288	249.122	141.378	2.801	1.00 87.91	A16S
ATOM	27179	O1P A	A1288	250.274	140.610	3.364	1.00 78.33	A16S
ATOM	27180	O2P A	A1288	249.343	142.718	2.171	1.00 78.33	A16S
ATOM	27181	O5* A	A1288	248.378	140.463	1.736	1.00 87.91	A16S
ATOM	27182	C5* A	A1288	248.436	139.030	1.822	1.00 87.91	A16S
ATOM	27183	C4* A	A1288	247.523	138.433	0.794	1.00 87.91	A16S
ATOM	27184	O4* A	A1288	246.192	138.944	1.056	1.00 87.91	A16S
ATOM	27185	C1* A	A1288	245.528	139.193	-0.166	1.00 87.91	A16S
ATOM	27186	N9 A	A1288	245.206	140.618	-0.235	1.00 78.33	A16S
ATOM	27187	C4 A	A1288	244.201	141.188	-0.978	1.00 78.33	A16S
ATOM	27188	N3 A	A1288	243.320	140.560	-1.769	1.00 78.33	A16S
ATOM	27189	C2 A	A1288	242.503	141.437	-2.349	1.00 78.33	A16S
ATOM	27190	N1 A	A1288	242.466	142.769	-2.235	1.00 78.33	A16S
ATOM	27191	C6 A	A1288	243.364	143.368	-1.432	1.00 78.33	A16S
ATOM	27192	N6 A	A1288	243.324	144.695	-1.326	1.00 78.33	A16S
ATOM	27193	C5 A	A1288	244.291	142.546	-0.758	1.00 78.33	A16S
ATOM	27194	N7 A	A1288	245.328	142.830	0.115	1.00 78.33	A16S
ATOM	27195	C8 A	A1288	245.835	141.655	0.396	1.00 78.33	A16S
ATOM	27196	C2* A	A1288	246.452	138.737	-1.298	1.00 87.91	A16S
ATOM	27197	O2* A	A1288	246.161	137.396	-1.644	1.00 87.91	A16S
ATOM	27198	C3* A	A1288	247.816	138.852	-0.641	1.00 87.91	A16S
ATOM	27199	O3* A	A1288	248.786	138.026	-1.281	1.00 87.91	A16S
ATOM	27200	P A	A1289	249.683	138.629	-2.480	1.00 85.48	A16S
ATOM	27201	O1P A	A1289	250.648	137.561	-2.843	1.00 88.18	A16S
ATOM	27202	O2P A	A1289	250.183	139.989	-2.118	1.00 88.18	A16S
ATOM	27203	O5* A	A1289	248.673	138.827	-3.697	1.00 85.48	A16S
ATOM	27204	C5* A	A1289	248.119	137.695	-4.385	1.00 85.48	A16S
ATOM	27205	C4* A	A1289	246.947	138.115	-5.235	1.00 85.48	A16S
ATOM	27206	O4* A	A1289	245.952	138.763	-4.409	1.00 85.48	A16S
ATOM	27207	C1* A	A1289	245.258	139.724	-5.175	1.00 85.48	A16S
ATOM	27208	N9 A	A1289	245.355	141.026	-4.524	1.00 88.18	A16S
ATOM	27209	C4 A	A1289	244.606	142.119	-4.885	1.00 88.18	A16S
ATOM	27210	N3 A	A1289	243.661	142.178	-5.840	1.00 88.18	A16S
ATOM	27211	C2 A	A1289	243.154	143.404	-5.929	1.00 88.18	A16S
ATOM	27212	N1 A	A1289	243.458	144.494	-5.227	1.00 88.18	A16S
ATOM	27213	C6 A	A1289	244.408	144.401	-4.270	1.00 88.18	A16S
ATOM	27214	N6 A	A1289	244.707	145.491	-3.566	1.00 88.18	A16S
ATOM	27215	C5 A	A1289	245.027	143.149	-4.075	1.00 88.18	A16S
ATOM	27216	N7 A	A1289	246.012	142.712	-3.196	1.00 88.18	A16S
ATOM	27217	C8 A	A1289	246.166	141.446	-3.501	1.00 88.18	A16S
ATOM	27218	C2* A	A1289	245.875	139.751	-6.570	1.00 85.48	A16S
ATOM	27219	O2* A	A1289	245.087	138.975	-7.448	1.00 85.48	A16S
ATOM	27220	C3* A	A1289	247.239	139.136	-6.315	1.00 85.48	A16S
ATOM	27221	O3* A	A1289	247.735	138.518	-7.483	1.00 85.48	A16S
ATOM	27222	P G	A1290	249.049	139.101	-8.183	1.00 91.12	A16S
ATOM	27223	O1P G	A1290	249.012	138.687	-9.607	1.00104.15	A16S
ATOM	27224	O2P G	A1290	250.221	138.742	-7.336	1.00104.15	A16S
ATOM	27225	O5* G	A1290	248.833	140.674	-8.138	1.00 91.12	A16S
ATOM	27226	C5* G	A1290	247.732	141.285	-8.830	1.00 91.12	A16S
ATOM	27227	C4* G	A1290	247.687	142.766	-8.521	1.00 91.12	A16S
ATOM	27228	O4* G	A1290	247.515	142.939	-7.090	1.00 91.12	A16S
ATOM	27229	C1* G	A1290	248.242	144.072	-6.656	1.00 91.12	A16S
ATOM	27230	N9 G	A1290	249.212	143.640	-5.652	1.00104.15	A16S
ATOM	27231	C4 G	A1290	250.183	144.421	-5.085	1.00104.15	A16S
ATOM	27232	N3 G	A1290	250.420	145.715	-5.378	1.00104.15	A16S
ATOM	27233	C2 G	A1290	251.423	146.204	-4.679	1.00104.15	A16S
ATOM	27234	N2 G	A1290	251.801	147.477	-4.874	1.00104.15	A16S
ATOM	27235	N1 G	A1290	252.131	145.481	-3.744	1.00104.15	A16S
ATOM	27236	C6 G	A1290	251.899	144.146	-3.416	1.00104.15	A16S
ATOM	27237	O6 G	A1290	252.589	143.590	-2.547	1.00104.15	A16S
ATOM	27238	C5 G	A1290	250.833	143.605	-4.180	1.00104.15	A16S
ATOM	27239	N7 G	A1290	250.286	142.328	-4.186	1.00104.15	A16S
ATOM	27240	C8 G	A1290	249.332	142.393	-5.075	1.00104.15	A16S
ATOM	27241	C2* G	A1290	248.866	144.733	-7.890	1.00 91.12	A16S
ATOM	27242	O2* G	A1290	247.999	145.752	-8.351	1.00 91.12	A16S
ATOM	27243	C3* G	A1290	248.943	143.564	-8.865	1.00 91.12	A16S
ATOM	27244	O3* G	A1290	248.926	144.004	-10.228	1.00 91.12	A16S
ATOM	27245	P G	A1291	250.232	143.811	-11.153	1.00102.82	A16S
ATOM	27246	O1P G	A1291	249.805	144.091	-12.553	1.00103.34	A16S
ATOM	27247	O2P G	A1291	250.875	142.509	-10.833	1.00103.34	A16S
ATOM	27248	O5* G	A1291	251.212	144.975	-10.676	1.00102.82	A16S
ATOM	27249	C5* G	A1291	250.924	146.360	-10.970	1.00102.82	A16S
ATOM	27250	C4* G	A1291	251.934	147.262	-10.299	1.00102.82	A16S
ATOM	27251	O4* G	A1291	251.812	147.133	-8.861	1.00102.82	A16S



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ATOM	27252	C1*	G	A1291	253.088	147.246	-8.262	1.00102.82	A16S
ATOM	27253	N9	G	A1291	253.326	146.061	-7.447	1.00103.34	A16S
ATOM	27254	C4	G	A1291	254.320	145.898	-6.515	1.00103.34	A16S
ATOM	27255	N3	G	A1291	255.268	146.804	-6.200	1.00103.34	A16S
ATOM	27256	C2	G	A1291	256.087	146.356	-5.257	1.00103.34	A16S
ATOM	27257	N2	G	A1291	257.095	147.131	-4.821	1.00103.34	A16S
ATOM	27258	N1	G	A1291	255.980	145.116	-4.669	1.00103.34	A16S
ATOM	27259	C6	G	A1291	255.010	144.169	-4.976	1.00103.34	A16S
ATOM	27260	O6	G	A1291	255.000	143.083	-4.385	1.00103.34	A16S
ATOM	27261	C5	G	A1291	254.126	144.636	-5.989	1.00103.34	A16S
ATOM	27262	N7	G	A1291	253.038	144.016	-6.587	1.00103.34	A16S
ATOM	27263	C8	G	A1291	252.598	144.895	-7.447	1.00103.34	A16S
ATOM	27264	C2*	G	A1291	254.122	147.473	-9.367	1.00102.82	A16S
ATOM	27265	O2*	G	A1291	254.407	148.853	-9.432	1.00102.82	A16S
ATOM	27266	C3*	G	A1291	253.391	146.953	-10.603	1.00102.82	A16S
ATOM	27267	O3*	G	A1291	253.801	147.634	-11.788	1.00102.82	A16S
ATOM	27268	P	U	A1292	255.064	147.095	-12.626	1.00 99.30	A16S
ATOM	27269	O1P	U	A1292	255.350	148.093	-13.691	1.00104.21	A16S
ATOM	27270	O2P	U	A1292	254.808	145.684	-12.999	1.00104.21	A16S
ATOM	27271	O5*	U	A1292	256.267	147.111	-11.578	1.00 99.30	A16S
ATOM	27272	C5*	U	A1292	256.929	148.341	-11.237	1.00 99.30	A16S
ATOM	27273	C4*	U	A1292	258.158	148.072	-10.398	1.00 99.30	A16S
ATOM	27274	O4*	U	A1292	257.795	147.627	-9.068	1.00 99.30	A16S
ATOM	27275	C1*	U	A1292	258.806	146.771	-8.563	1.00 99.30	A16S
ATOM	27276	N1	U	A1292	258.196	145.513	-8.109	1.00104.21	A16S
ATOM	27277	C6	U	A1292	257.056	145.016	-8.694	1.00104.21	A16S
ATOM	27278	C2	U	A1292	258.813	144.837	-7.063	1.00104.21	A16S
ATOM	27279	O2	U	A1292	259.826	145.234	-6.517	1.00104.21	A16S
ATOM	27280	N3	U	A1292	258.199	143.675	-6.681	1.00104.21	A16S
ATOM	27281	C4	U	A1292	257.062	143.124	-7.223	1.00104.21	A16S
ATOM	27282	O4	U	A1292	256.612	142.084	-6.745	1.00104.21	A16S
ATOM	27283	C5	U	A1292	256.485	143.874	-8.300	1.00104.21	A16S
ATOM	27284	C2*	U	A1292	259.855	146.577	-9.658	1.00 99.30	A16S
ATOM	27285	O2*	U	A1292	260.965	147.405	-9.384	1.00 99.30	A16S
ATOM	27286	C3*	U	A1292	259.089	146.992	-10.910	1.00 99.30	A16S
ATOM	27287	O3*	U	A1292	259.940	147.491	-11.926	1.00 99.30	A16S
ATOM	27288	P	G	A1293	260.631	146.466	-12.951	1.00102.26	A16S
ATOM	27289	O1P	G	A1293	261.412	147.325	-13.882	1.00 94.50	A16S
ATOM	27290	O2P	G	A1293	259.592	145.549	-13.502	1.00 94.50	A16S
ATOM	27291	O5*	G	A1293	261.623	145.620	-12.023	1.00102.26	A16S
ATOM	27292	C5*	G	A1293	262.768	146.255	-11.428	1.00102.26	A16S
ATOM	27293	C4*	G	A1293	263.541	145.297	-10.551	1.00102.26	A16S
ATOM	27294	O4*	G	A1293	262.856	145.068	-9.296	1.00102.26	A16S
ATOM	27295	C1*	G	A1293	263.187	143.774	-8.805	1.00102.26	A16S
ATOM	27296	N9	G	A1293	261.964	142.981	-8.685	1.00 94.50	A16S
ATOM	27297	C4	G	A1293	261.738	141.942	-7.806	1.00 94.50	A16S
ATOM	27298	N3	G	A1293	262.598	141.489	-6.865	1.00 94.50	A16S
ATOM	27299	C2	G	A1293	262.096	140.463	-6.187	1.00 94.50	A16S
ATOM	27300	N2	G	A1293	262.805	139.896	-5.203	1.00 94.50	A16S
ATOM	27301	N1	G	A1293	260.859	139.921	-6.422	1.00 94.50	A16S
ATOM	27302	C6	G	A1293	259.963	140.364	-7.391	1.00 94.50	A16S
ATOM	27303	O6	G	A1293	258.878	139.790	-7.536	1.00 94.50	A16S
ATOM	27304	C5	G	A1293	260.479	141.473	-8.114	1.00 94.50	A16S
ATOM	27305	N7	G	A1293	259.916	142.212	-9.145	1.00 94.50	A16S
ATOM	27306	C8	G	A1293	260.825	143.096	-9.447	1.00 94.50	A16S
ATOM	27307	C2*	G	A1293	264.146	143.136	-9.810	1.00102.26	A16S
ATOM	27308	O2*	G	A1293	265.479	143.332	-9.383	1.00102.26	A16S
ATOM	27309	C3*	G	A1293	263.820	143.906	-11.083	1.00102.26	A16S
ATOM	27310	O3*	G	A1293	264.899	143.874	-11.995	1.00102.26	A16S
ATOM	27311	P	G	A1294	265.028	142.642	-13.015	1.00 99.32	A16S
ATOM	27312	O1P	G	A1294	266.214	142.936	-13.865	1.00101.72	A16S
ATOM	27313	O2P	G	A1294	263.706	142.402	-13.653	1.00101.72	A16S
ATOM	27314	O5*	G	A1294	265.367	141.400	-12.073	1.00 99.32	A16S
ATOM	27315	C5*	G	A1294	266.566	141.400	-11.288	1.00 99.32	A16S
ATOM	27316	C4*	G	A1294	266.594	140.225	-10.342	1.00 99.32	A16S
ATOM	27317	O4*	G	A1294	265.563	140.353	-9.328	1.00 99.32	A16S
ATOM	27318	C1*	G	A1294	265.157	139.056	-8.898	1.00 99.32	A16S
ATOM	27319	N9	G	A1294	263.734	138.868	-9.171	1.00101.72	A16S
ATOM	27320	C4	G	A1294	262.923	137.918	-8.594	1.00101.72	A16S
ATOM	27321	N3	G	A1294	263.289	137.041	-7.634	1.00101.72	A16S
ATOM	27322	C2	G	A1294	262.303	136.227	-7.307	1.00101.72	A16S
ATOM	27323	N2	G	A1294	262.498	135.292	-6.369	1.00101.72	A16S
ATOM	27324	N1	G	A1294	261.055	136.269	-7.878	1.00101.72	A16S
ATOM	27325	C6	G	A1294	260.657	137.161	-8.873	1.00101.72	A16S
ATOM	27326	O6	G	A1294	259.510	137.104	-9.338	1.00101.72	A16S
ATOM	27327	C5	G	A1294	261.704	138.046	-9.225	1.00101.72	A16S
ATOM	27328	N7	G	A1294	261.733	139.079	-10.153	1.00101.72	A16S



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ATOM	27329	C8	G	A1294	262.951	139.545	-10.079	1.00101.72	A16S
ATOM	27330	C2*	G	A1294	265.954	138.032	-9.706	1.00 99.32	A16S
ATOM	27331	O2*	G	A1294	267.043	137.548	-8.941	1.00 99.32	A16S
ATOM	27332	C3*	G	A1294	266.348	138.850	-10.932	1.00 99.32	A16S
ATOM	27333	O3*	G	A1294	267.474	138.311	-11.590	1.00 99.32	A16S
ATOM	27334	P	G	A1295	267.269	137.095	-12.618	1.00 92.04	A16S
ATOM	27335	O1P	G	A1295	268.614	136.759	-13.148	1.00 81.96	A16S
ATOM	27336	O2P	G	A1295	266.170	137.446	-13.566	1.00 81.96	A16S
ATOM	27337	O5*	G	A1295	266.816	135.887	-11.684	1.00 92.04	A16S
ATOM	27338	C5*	G	A1295	267.722	135.374	-10.695	1.00 92.04	A16S
ATOM	27339	C4*	G	A1295	267.124	134.191	-9.979	1.00 92.04	A16S
ATOM	27340	O4*	G	A1295	265.995	134.617	-9.176	1.00 92.04	A16S
ATOM	27341	C1*	G	A1295	265.024	133.581	-9.131	1.00 92.04	A16S
ATOM	27342	N9	G	A1295	263.795	134.068	-9.760	1.00 81.96	A16S
ATOM	27343	C4	G	A1295	262.548	133.477	-9.703	1.00 81.96	A16S
ATOM	27344	N3	G	A1295	262.238	132.338	-9.051	1.00 81.96	A16S
ATOM	27345	C2	G	A1295	260.965	132.014	-9.211	1.00 81.96	A16S
ATOM	27346	N2	G	A1295	260.490	130.894	-8.653	1.00 81.96	A16S
ATOM	27347	N1	G	A1295	260.066	132.757	-9.934	1.00 81.96	A16S
ATOM	27348	C6	G	A1295	260.358	133.935	-10.603	1.00 81.96	A16S
ATOM	27349	O6	G	A1295	259.470	134.528	-11.218	1.00 81.96	A16S
ATOM	27350	C5	G	A1295	261.722	134.289	-10.460	1.00 81.96	A16S
ATOM	27351	N7	G	A1295	262.430	135.366	-10.979	1.00 81.96	A16S
ATOM	27352	C8	G	A1295	263.649	135.198	-10.538	1.00 81.96	A16S
ATOM	27353	C2*	G	A1295	265.609	132.384	-9.881	1.00 92.04	A16S
ATOM	27354	O2*	G	A1295	266.286	131.555	-8.956	1.00 92.04	A16S
ATOM	27355	C3*	G	A1295	266.573	133.069	-10.841	1.00 92.04	A16S
ATOM	27356	O3*	G	A1295	267.583	132.190	-11.314	1.00 92.04	A16S
ATOM	27357	P	C	A1296	267.444	131.546	-12.784	1.00 96.33	A16S
ATOM	27358	O1P	C	A1296	268.677	130.753	-13.020	1.00 74.83	A16S
ATOM	27359	O2P	C	A1296	267.044	132.594	-13.765	1.00 74.83	A16S
ATOM	27360	O5*	C	A1296	266.218	130.542	-12.640	1.00 96.33	A16S
ATOM	27361	C5*	C	A1296	266.244	129.482	-11.667	1.00 96.33	A16S
ATOM	27362	C4*	C	A1296	264.960	128.690	-11.724	1.00 96.33	A16S
ATOM	27363	O4*	C	A1296	263.862	129.517	-11.278	1.00 96.33	A16S
ATOM	27364	C1*	C	A1296	262.697	129.187	-12.006	1.00 96.33	A16S
ATOM	27365	N1	C	A1296	262.139	130.424	-12.598	1.00 74.83	A16S
ATOM	27366	C6	C	A1296	262.927	131.521	-12.811	1.00 74.83	A16S
ATOM	27367	C2	C	A1296	260.771	130.468	-12.916	1.00 74.83	A16S
ATOM	27368	O2	C	A1296	260.082	129.450	-12.761	1.00 74.83	A16S
ATOM	27369	N3	C	A1296	260.240	131.616	-13.390	1.00 74.83	A16S
ATOM	27370	C4	C	A1296	261.016	132.685	-13.571	1.00 74.83	A16S
ATOM	27371	N4	C	A1296	260.445	133.800	-14.032	1.00 74.83	A16S
ATOM	27372	C5	C	A1296	262.411	132.661	-13.289	1.00 74.83	A16S
ATOM	27373	C2*	C	A1296	263.040	128.056	-12.981	1.00 96.33	A16S
ATOM	27374	O2*	C	A1296	262.657	126.831	-12.387	1.00 96.33	A16S
ATOM	27375	C3*	C	A1296	264.557	128.175	-13.098	1.00 96.33	A16S
ATOM	27376	O3*	C	A1296	265.146	126.890	-13.309	1.00 96.33	A16S
ATOM	27377	P	C	A1297	266.084	126.628	-14.589	1.00 64.89	A16S
ATOM	27378	O1P	C	A1297	266.723	125.301	-14.373	1.00 73.13	A16S
ATOM	27379	O2P	C	A1297	266.932	127.822	-14.838	1.00 73.13	A16S
ATOM	27380	O5*	C	A1297	265.066	126.514	-15.808	1.00 64.89	A16S
ATOM	27381	C5*	C	A1297	264.140	125.417	-15.900	1.00 64.89	A16S
ATOM	27382	C4*	C	A1297	263.182	125.649	-17.040	1.00 64.89	A16S
ATOM	27383	O4*	C	A1297	262.518	126.920	-16.829	1.00 64.89	A16S
ATOM	27384	C1*	C	A1297	262.642	127.717	-17.981	1.00 64.89	A16S
ATOM	27385	N1	C	A1297	262.795	129.108	-17.568	1.00 73.13	A16S
ATOM	27386	C6	C	A1297	263.695	129.454	-16.600	1.00 73.13	A16S
ATOM	27387	C2	C	A1297	262.003	130.084	-18.183	1.00 73.13	A16S
ATOM	27388	O2	C	A1297	261.187	129.742	-19.057	1.00 73.13	A16S
ATOM	27389	N3	C	A1297	262.143	131.374	-17.810	1.00 73.13	A16S
ATOM	27390	C4	C	A1297	263.028	131.704	-16.864	1.00 73.13	A16S
ATOM	27391	N4	C	A1297	263.136	132.998	-16.527	1.00 73.13	A16S
ATOM	27392	C5	C	A1297	263.843	130.726	-16.220	1.00 73.13	A16S
ATOM	27393	C2*	C	A1297	263.843	127.193	-18.756	1.00 64.89	A16S
ATOM	27394	O2*	C	A1297	263.647	127.447	-20.135	1.00 64.89	A16S
ATOM	27395	C3*	C	A1297	263.782	125.705	-18.444	1.00 64.89	A16S
ATOM	27396	O3*	C	A1297	262.868	125.126	-19.355	1.00 64.89	A16S
ATOM	27397	P	C	A1298	263.280	123.820	-20.173	1.00 71.90	A16S
ATOM	27398	O1P	C	A1298	264.286	123.073	-19.356	1.00 64.85	A16S
ATOM	27399	O2P	C	A1298	263.598	124.214	-21.568	1.00 64.85	A16S
ATOM	27400	O5*	C	A1298	261.928	122.987	-20.204	1.00 71.90	A16S
ATOM	27401	C5*	C	A1298	261.521	122.228	-19.063	1.00 71.90	A16S
ATOM	27402	C4*	C	A1298	260.022	122.129	-19.013	1.00 71.90	A16S
ATOM	27403	O4*	C	A1298	259.442	123.367	-18.515	1.00 71.90	A16S
ATOM	27404	C1*	C	A1298	258.340	123.705	-19.321	1.00 71.90	A16S
ATOM	27405	N1	C	A1298	258.099	125.152	-19.252	1.00 64.85	A16S



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ATOM	27406	C6	C	A1298	259.123	126.039	-19.096	1.00	64.85	A16S
ATOM	27407	C2	C	A1298	256.783	125.611	-19.366	1.00	64.85	A16S
ATOM	27408	O2	C	A1298	255.866	124.784	-19.465	1.00	64.85	A16S
ATOM	27409	N3	C	A1298	256.539	126.938	-19.358	1.00	64.85	A16S
ATOM	27410	C4	C	A1298	257.547	127.795	-19.234	1.00	64.85	A16S
ATOM	27411	N4	C	A1298	257.263	129.093	-19.265	1.00	64.85	A16S
ATOM	27412	C5	C	A1298	258.894	127.358	-19.083	1.00	64.85	A16S
ATOM	27413	C2*	C	A1298	258.679	123.150	-20.702	1.00	71.90	A16S
ATOM	27414	O2*	C	A1298	257.508	122.991	-21.473	1.00	71.90	A16S
ATOM	27415	C3*	C	A1298	259.318	121.816	-20.329	1.00	71.90	A16S
ATOM	27416	O3*	C	A1298	258.273	120.893	-20.073	1.00	71.90	A16S
ATOM	27417	P	A	A1299	258.208	119.514	-20.888	1.00	78.86	A16S
ATOM	27418	O1P	A	A1299	256.788	119.326	-21.297	1.00	90.80	A16S
ATOM	27419	O2P	A	A1299	259.279	119.534	-21.928	1.00	90.80	A16S
ATOM	27420	O5*	A	A1299	258.557	118.411	-19.788	1.00	78.86	A16S
ATOM	27421	C5*	A	A1299	259.899	117.902	-19.645	1.00	78.86	A16S
ATOM	27422	C4*	A	A1299	260.339	117.958	-18.201	1.00	78.86	A16S
ATOM	27423	O4*	A	A1299	260.572	119.318	-17.800	1.00	78.86	A16S
ATOM	27424	C1*	A	A1299	260.471	119.398	-16.396	1.00	78.86	A16S
ATOM	27425	N9	A	A1299	260.029	120.750	-16.036	1.00	90.80	A16S
ATOM	27426	C4	A	A1299	258.779	121.316	-16.093	1.00	90.80	A16S
ATOM	27427	N3	A	A1299	257.627	120.716	-16.418	1.00	90.80	A16S
ATOM	27428	C2	A	A1299	256.634	121.600	-16.429	1.00	90.80	A16S
ATOM	27429	N1	A	A1299	256.663	122.920	-16.180	1.00	90.80	A16S
ATOM	27430	C6	A	A1299	257.841	123.489	-15.863	1.00	90.80	A16S
ATOM	27431	N6	A	A1299	257.880	124.804	-15.649	1.00	90.80	A16S
ATOM	27432	C5	A	A1299	258.962	122.659	-15.796	1.00	90.80	A16S
ATOM	27433	N7	A	A1299	260.287	122.920	-15.493	1.00	90.80	A16S
ATOM	27434	C8	A	A1299	260.874	121.759	-15.634	1.00	90.80	A16S
ATOM	27435	C2*	A	A1299	259.749	118.146	-15.878	1.00	78.86	A16S
ATOM	27436	O2*	A	A1299	260.660	117.392	-15.104	1.00	78.86	A16S
ATOM	27437	C3*	A	A1299	259.359	117.420	-17.175	1.00	78.86	A16S
ATOM	27438	O3*	A	A1299	259.616	116.027	-17.069	1.00	78.86	A16S
ATOM	27439	P	G	A1300	258.406	114.976	-17.011	1.00	81.49	A16S
ATOM	27440	O1P	G	A1300	258.409	114.307	-18.330	1.00	66.03	A16S
ATOM	27441	O2P	G	A1300	257.195	115.702	-16.559	1.00	66.03	A16S
ATOM	27442	O5*	G	A1300	258.908	113.940	-15.895	1.00	81.49	A16S
ATOM	27443	C5*	G	A1300	258.137	113.598	-14.684	1.00	81.49	A16S
ATOM	27444	C4*	G	A1300	257.869	114.825	-13.824	1.00	81.49	A16S
ATOM	27445	O4*	G	A1300	256.564	115.304	-14.218	1.00	81.49	A16S
ATOM	27446	C1*	G	A1300	255.871	115.794	-13.100	1.00	81.49	A16S
ATOM	27447	N9	G	A1300	254.590	115.097	-12.999	1.00	66.03	A16S
ATOM	27448	C4	G	A1300	253.361	115.711	-13.033	1.00	66.03	A16S
ATOM	27449	N3	G	A1300	253.148	117.044	-13.103	1.00	66.03	A16S
ATOM	27450	C2	G	A1300	251.868	117.343	-13.141	1.00	66.03	A16S
ATOM	27451	N2	G	A1300	251.493	118.624	-13.185	1.00	66.03	A16S
ATOM	27452	N1	G	A1300	250.866	116.411	-13.133	1.00	66.03	A16S
ATOM	27453	C6	G	A1300	251.052	115.033	-13.072	1.00	66.03	A16S
ATOM	27454	O6	G	A1300	250.069	114.283	-13.097	1.00	66.03	A16S
ATOM	27455	C5	G	A1300	252.438	114.692	-13.001	1.00	66.03	A16S
ATOM	27456	N7	G	A1300	253.071	113.453	-12.904	1.00	66.03	A16S
ATOM	27457	C8	G	A1300	254.347	113.743	-12.898	1.00	66.03	A16S
ATOM	27458	C2*	G	A1300	256.800	115.729	-11.897	1.00	81.49	A16S
ATOM	27459	O2*	G	A1300	257.468	116.968	-11.813	1.00	81.49	A16S
ATOM	27460	C3*	G	A1300	257.774	114.639	-12.304	1.00	81.49	A16S
ATOM	27461	O3*	G	A1300	259.072	114.826	-11.690	1.00	81.49	A16S
ATOM	27462	P	U	A1301	259.236	115.595	-10.255	1.00	72.07	A16S
ATOM	27463	O1P	U	A1301	260.440	115.001	-9.608	1.00	80.56	A16S
ATOM	27464	O2P	U	A1301	257.962	115.614	-9.498	1.00	80.56	A16S
ATOM	27465	O5*	U	A1301	259.617	117.096	-10.665	1.00	72.07	A16S
ATOM	27466	C5*	U	A1301	260.894	117.384	-11.284	1.00	72.07	A16S
ATOM	27467	C4*	U	A1301	261.013	118.848	-11.634	1.00	72.07	A16S
ATOM	27468	O4*	U	A1301	260.000	119.162	-12.600	1.00	72.07	A16S
ATOM	27469	C1*	U	A1301	259.611	120.507	-12.447	1.00	72.07	A16S
ATOM	27470	N1	U	A1301	258.157	120.597	-12.621	1.00	80.56	A16S
ATOM	27471	C6	U	A1301	257.367	119.492	-12.496	1.00	80.56	A16S
ATOM	27472	C2	U	A1301	257.614	121.821	-12.948	1.00	80.56	A16S
ATOM	27473	O2	U	A1301	258.273	122.836	-13.038	1.00	80.56	A16S
ATOM	27474	N3	U	A1301	256.263	121.811	-13.167	1.00	80.56	A16S
ATOM	27475	C4	U	A1301	255.422	120.725	-13.089	1.00	80.56	A16S
ATOM	27476	O4	U	A1301	254.245	120.846	-13.411	1.00	80.56	A16S
ATOM	27477	C5	U	A1301	256.056	119.511	-12.715	1.00	80.56	A16S
ATOM	27478	C2*	U	A1301	260.231	121.090	-11.172	1.00	72.07	A16S
ATOM	27479	O2*	U	A1301	261.112	122.133	-11.530	1.00	72.07	A16S
ATOM	27480	C3*	U	A1301	260.831	119.849	-10.498	1.00	72.07	A16S
ATOM	27481	O3*	U	A1301	262.076	119.952	-9.742	1.00	72.07	A16S
ATOM	27482	P	U	A1302	262.990	121.294	-9.750	1.00	61.37	A16S



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ATOM	27483	O1P	U	A1302	263.340	121.684	-11.143	1.00108.90	A16S
ATOM	27484	O2P	U	A1302	264.077	120.996	-8.795	1.00108.90	A16S
ATOM	27485	O5*	U	A1302	262.082	122.434	-9.093	1.00 61.37	A16S
ATOM	27486	C5*	U	A1302	261.561	122.272	-7.748	1.00 61.37	A16S
ATOM	27487	C4*	U	A1302	260.987	123.573	-7.206	1.00 61.37	A16S
ATOM	27488	O4*	U	A1302	262.041	124.559	-7.060	1.00 61.37	A16S
ATOM	27489	C1*	U	A1302	261.579	125.789	-7.558	1.00 61.37	A16S
ATOM	27490	N1	U	A1302	262.729	126.647	-7.876	1.00108.90	A16S
ATOM	27491	C6	U	A1302	263.732	126.231	-8.722	1.00108.90	A16S
ATOM	27492	C2	U	A1302	262.775	127.899	-7.271	1.00108.90	A16S
ATOM	27493	O2	U	A1302	261.903	128.313	-6.517	1.00108.90	A16S
ATOM	27494	N3	U	A1302	263.880	128.647	-7.579	1.00108.90	A16S
ATOM	27495	C4	U	A1302	264.918	128.286	-8.407	1.00108.90	A16S
ATOM	27496	O4	U	A1302	265.852	129.066	-8.569	1.00108.90	A16S
ATOM	27497	C5	U	A1302	264.796	126.986	-8.998	1.00108.90	A16S
ATOM	27498	C2*	U	A1302	260.581	125.425	-8.654	1.00 61.37	A16S
ATOM	27499	O2*	U	A1302	259.759	126.535	-8.964	1.00 61.37	A16S
ATOM	27500	C3*	U	A1302	259.851	124.266	-7.970	1.00 61.37	A16S
ATOM	27501	O3*	U	A1302	258.942	124.842	-7.007	1.00 61.37	A16S
ATOM	27502	P	C	A1303	257.634	124.024	-6.508	1.00 87.50	A16S
ATOM	27503	O1P	C	A1303	256.842	125.002	-5.692	1.00 47.60	A16S
ATOM	27504	O2P	C	A1303	258.019	122.700	-5.916	1.00 47.60	A16S
ATOM	27505	O5*	C	A1303	256.806	123.746	-7.841	1.00 87.50	A16S
ATOM	27506	C5*	C	A1303	256.457	124.829	-8.733	1.00 87.50	A16S
ATOM	27507	C4*	C	A1303	255.148	124.538	-9.430	1.00 87.50	A16S
ATOM	27508	O4*	C	A1303	255.309	123.461	-10.385	1.00 87.50	A16S
ATOM	27509	C1*	C	A1303	254.133	122.675	-10.415	1.00 87.50	A16S
ATOM	27510	N1	C	A1303	254.484	121.288	-10.061	1.00 47.60	A16S
ATOM	27511	C6	C	A1303	255.773	120.949	-9.766	1.00 47.60	A16S
ATOM	27512	C2	C	A1303	253.484	120.304	-10.060	1.00 47.60	A16S
ATOM	27513	O2	C	A1303	252.316	120.636	-10.253	1.00 47.60	A16S
ATOM	27514	N3	C	A1303	253.819	119.019	-9.837	1.00 47.60	A16S
ATOM	27515	C4	C	A1303	255.083	118.699	-9.591	1.00 47.60	A16S
ATOM	27516	N4	C	A1303	255.372	117.424	-9.410	1.00 47.60	A16S
ATOM	27517	C5	C	A1303	256.112	119.678	-9.526	1.00 47.60	A16S
ATOM	27518	C2*	C	A1303	253.111	123.325	-9.487	1.00 87.50	A16S
ATOM	27519	O2*	C	A1303	252.277	124.175	-10.255	1.00 87.50	A16S
ATOM	27520	C3*	C	A1303	254.017	124.082	-8.528	1.00 87.50	A16S
ATOM	27521	O3*	C	A1303	253.365	125.177	-7.913	1.00 87.50	A16S
ATOM	27522	P	G	A1304	252.841	125.035	-6.405	1.00 71.14	A16S
ATOM	27523	O1P	G	A1304	251.727	126.013	-6.252	1.00 78.84	A16S
ATOM	27524	O2P	G	A1304	254.004	125.080	-5.468	1.00 78.84	A16S
ATOM	27525	O5*	G	A1304	252.200	123.579	-6.379	1.00 71.14	A16S
ATOM	27526	C5*	G	A1304	250.952	123.317	-7.041	1.00 71.14	A16S
ATOM	27527	C4*	G	A1304	250.431	121.977	-6.621	1.00 71.14	A16S
ATOM	27528	O4*	G	A1304	251.112	120.917	-7.330	1.00 71.14	A16S
ATOM	27529	C1*	G	A1304	251.331	119.817	-6.463	1.00 71.14	A16S
ATOM	27530	N9	G	A1304	252.774	119.595	-6.409	1.00 78.84	A16S
ATOM	27531	C4	G	A1304	253.457	118.392	-6.406	1.00 78.84	A16S
ATOM	27532	N3	G	A1304	252.912	117.158	-6.431	1.00 78.84	A16S
ATOM	27533	C2	G	A1304	253.842	116.207	-6.408	1.00 78.84	A16S
ATOM	27534	N2	G	A1304	253.486	114.910	-6.408	1.00 78.84	A16S
ATOM	27535	N1	G	A1304	255.188	116.452	-6.378	1.00 78.84	A16S
ATOM	27536	C6	G	A1304	255.769	117.712	-6.355	1.00 78.84	A16S
ATOM	27537	O6	G	A1304	257.003	117.827	-6.324	1.00 78.84	A16S
ATOM	27538	C5	G	A1304	254.794	118.734	-6.369	1.00 78.84	A16S
ATOM	27539	N7	G	A1304	254.950	120.111	-6.347	1.00 78.84	A16S
ATOM	27540	C8	G	A1304	253.732	120.577	-6.369	1.00 78.84	A16S
ATOM	27541	C2*	G	A1304	250.674	120.160	-5.120	1.00 71.14	A16S
ATOM	27542	O2*	G	A1304	249.366	119.628	-5.123	1.00 71.14	A16S
ATOM	27543	C3*	G	A1304	250.660	121.685	-5.157	1.00 71.14	A16S
ATOM	27544	O3*	G	A1304	249.618	122.307	-4.420	1.00 71.14	A16S
ATOM	27545	P	G	A1305	249.767	122.532	-2.835	1.00 62.30	A16S
ATOM	27546	O1P	G	A1305	249.106	123.822	-2.495	1.00 99.82	A16S
ATOM	27547	O2P	G	A1305	251.162	122.289	-2.421	1.00 99.82	A16S
ATOM	27548	O5*	G	A1305	248.876	121.364	-2.240	1.00 62.30	A16S
ATOM	27549	C5*	G	A1305	248.906	121.056	-0.860	1.00 62.30	A16S
ATOM	27550	C4*	G	A1305	249.369	119.656	-0.694	1.00 62.30	A16S
ATOM	27551	O4*	G	A1305	250.392	119.463	-1.670	1.00 62.30	A16S
ATOM	27552	C1*	G	A1305	251.420	118.697	-1.111	1.00 62.30	A16S
ATOM	27553	N9	G	A1305	252.674	119.361	-1.413	1.00 99.82	A16S
ATOM	27554	C4	G	A1305	253.734	118.817	-2.088	1.00 99.82	A16S
ATOM	27555	N3	G	A1305	253.822	117.549	-2.526	1.00 99.82	A16S
ATOM	27556	C2	G	A1305	254.951	117.333	-3.165	1.00 99.82	A16S
ATOM	27557	N2	G	A1305	255.195	116.143	-3.675	1.00 99.82	A16S
ATOM	27558	N1	G	A1305	255.923	118.279	-3.355	1.00 99.82	A16S
ATOM	27559	C6	G	A1305	255.852	119.595	-2.915	1.00 99.82	A16S



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ATOM	27560	O6	G	A1305	256.783	120.384	-3.151	1.00	99.82	A16S
ATOM	27561	C5	G	A1305	254.643	119.840	-2.227	1.00	99.82	A16S
ATOM	27562	N7	G	A1305	254.175	120.997	-1.625	1.00	99.82	A16S
ATOM	27563	C8	G	A1305	253.011	120.660	-1.141	1.00	99.82	A16S
ATOM	27564	C2*	G	A1305	251.080	118.366	0.345	1.00	62.30	A16S
ATOM	27565	O2*	G	A1305	250.541	117.077	0.376	1.00	62.30	A16S
ATOM	27566	C3*	G	A1305	249.974	119.356	0.666	1.00	62.30	A16S
ATOM	27567	O3*	G	A1305	248.909	118.768	1.447	1.00	62.30	A16S
ATOM	27568	P	A	A1306	249.226	117.817	2.727	1.00	58.67	A16S
ATOM	27569	O1P	A	A1306	248.229	118.202	3.772	1.00	58.48	A16S
ATOM	27570	O2P	A	A1306	250.689	117.850	3.067	1.00	58.48	A16S
ATOM	27571	O5*	A	A1306	248.857	116.334	2.238	1.00	58.67	A16S
ATOM	27572	C5*	A	A1306	247.487	115.949	1.958	1.00	58.67	A16S
ATOM	27573	C4*	A	A1306	247.441	114.580	1.314	1.00	58.67	A16S
ATOM	27574	O4*	A	A1306	248.267	114.583	0.120	1.00	58.67	A16S
ATOM	27575	C1*	A	A1306	248.938	113.337	-0.006	1.00	58.67	A16S
ATOM	27576	N9	A	A1306	250.382	113.578	0.026	1.00	58.48	A16S
ATOM	27577	C4	A	A1306	251.386	112.644	-0.070	1.00	58.48	A16S
ATOM	27578	N3	A	A1306	251.260	111.322	-0.248	1.00	58.48	A16S
ATOM	27579	C2	A	A1306	252.451	110.741	-0.256	1.00	58.48	A16S
ATOM	27580	N1	A	A1306	253.659	111.286	-0.108	1.00	58.48	A16S
ATOM	27581	C6	A	A1306	253.746	112.616	0.082	1.00	58.48	A16S
ATOM	27582	N6	A	A1306	254.946	113.164	0.269	1.00	58.48	A16S
ATOM	27583	C5	A	A1306	252.565	113.346	0.091	1.00	58.48	A16S
ATOM	27584	N7	A	A1306	252.313	114.697	0.252	1.00	58.48	A16S
ATOM	27585	C8	A	A1306	251.011	114.777	0.197	1.00	58.48	A16S
ATOM	27586	C2*	A	A1306	248.469	112.436	1.137	1.00	58.67	A16S
ATOM	27587	O2*	A	A1306	247.444	111.610	0.640	1.00	58.67	A16S
ATOM	27588	C3*	A	A1306	247.986	113.451	2.168	1.00	58.67	A16S
ATOM	27589	O3*	A	A1306	246.961	112.924	2.997	1.00	58.67	A16S
ATOM	27590	P	U	A1307	247.312	112.433	4.487	1.00	65.49	A16S
ATOM	27591	O1P	U	A1307	246.147	111.720	5.075	1.00	61.74	A16S
ATOM	27592	O2P	U	A1307	247.899	113.597	5.205	1.00	61.74	A16S
ATOM	27593	O5*	U	A1307	248.459	111.354	4.272	1.00	65.49	A16S
ATOM	27594	C5*	U	A1307	248.205	110.156	3.549	1.00	65.49	A16S
ATOM	27595	C4*	U	A1307	249.490	109.409	3.324	1.00	65.49	A16S
ATOM	27596	O4*	U	A1307	250.333	110.117	2.378	1.00	65.49	A16S
ATOM	27597	C1*	U	A1307	251.700	109.929	2.729	1.00	65.49	A16S
ATOM	27598	N1	U	A1307	252.318	111.251	2.946	1.00	61.74	A16S
ATOM	27599	C6	U	A1307	251.540	112.373	3.093	1.00	61.74	A16S
ATOM	27600	C2	U	A1307	253.705	111.341	3.002	1.00	61.74	A16S
ATOM	27601	O2	U	A1307	254.447	110.377	2.854	1.00	61.74	A16S
ATOM	27602	N3	U	A1307	254.192	112.610	3.228	1.00	61.74	A16S
ATOM	27603	C4	U	A1307	253.458	113.774	3.383	1.00	61.74	A16S
ATOM	27604	O4	U	A1307	254.035	114.853	3.550	1.00	61.74	A16S
ATOM	27605	C5	U	A1307	252.049	113.594	3.300	1.00	61.74	A16S
ATOM	27606	C2*	U	A1307	251.739	109.022	3.966	1.00	65.49	A16S
ATOM	27607	O2*	U	A1307	251.935	107.676	3.571	1.00	65.49	A16S
ATOM	27608	C3*	U	A1307	250.355	109.247	4.556	1.00	65.49	A16S
ATOM	27609	O3*	U	A1307	249.914	108.176	5.364	1.00	65.49	A16S
ATOM	27610	P	U	A1308	250.044	108.300	6.956	1.00	79.90	A16S
ATOM	27611	O1P	U	A1308	249.286	107.181	7.585	1.00	73.81	A16S
ATOM	27612	O2P	U	A1308	249.697	109.705	7.294	1.00	73.81	A16S
ATOM	27613	O5*	U	A1308	251.599	108.062	7.202	1.00	79.90	A16S
ATOM	27614	C5*	U	A1308	252.198	106.788	6.889	1.00	79.90	A16S
ATOM	27615	C4*	U	A1308	253.710	106.874	6.936	1.00	79.90	A16S
ATOM	27616	O4*	U	A1308	254.178	107.802	5.927	1.00	79.90	A16S
ATOM	27617	C1*	U	A1308	255.341	108.469	6.393	1.00	79.90	A16S
ATOM	27618	N1	U	A1308	255.059	109.909	6.441	1.00	73.81	A16S
ATOM	27619	C6	U	A1308	253.763	110.375	6.454	1.00	73.81	A16S
ATOM	27620	C2	U	A1308	256.139	110.790	6.462	1.00	73.81	A16S
ATOM	27621	O2	U	A1308	257.315	110.420	6.477	1.00	73.81	A16S
ATOM	27622	N3	U	A1308	255.790	112.122	6.470	1.00	73.81	A16S
ATOM	27623	C4	U	A1308	254.509	112.648	6.468	1.00	73.81	A16S
ATOM	27624	O4	U	A1308	254.353	113.870	6.431	1.00	73.81	A16S
ATOM	27625	C5	U	A1308	253.463	111.673	6.467	1.00	73.81	A16S
ATOM	27626	C2*	U	A1308	255.682	107.907	7.767	1.00	79.90	A16S
ATOM	27627	O2*	U	A1308	256.629	106.871	7.619	1.00	79.90	A16S
ATOM	27628	C3*	U	A1308	254.331	107.385	8.224	1.00	79.90	A16S
ATOM	27629	O3*	U	A1308	254.497	106.375	9.191	1.00	79.90	A16S
ATOM	27630	P	G	A1309	254.925	106.791	10.671	1.00	90.49	A16S
ATOM	27631	O1P	G	A1309	254.757	105.576	11.502	1.00	70.43	A16S
ATOM	27632	O2P	G	A1309	254.199	108.041	11.024	1.00	70.43	A16S
ATOM	27633	O5*	G	A1309	256.476	107.145	10.546	1.00	90.49	A16S
ATOM	27634	C5*	G	A1309	257.470	106.104	10.417	1.00	90.49	A16S
ATOM	27635	C4*	G	A1309	258.869	106.682	10.502	1.00	90.49	A16S
ATOM	27636	O4*	G	A1309	259.095	107.567	9.373	1.00	90.49	A16S



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ATOM	27637	C1*	G	A1309	259.889	108.672	9.775	1.00	90.49	A16S
ATOM	27638	N9	G	A1309	259.043	109.856	9.742	1.00	70.43	A16S
ATOM	27639	C4	G	A1309	259.449	111.168	9.753	1.00	70.43	A16S
ATOM	27640	N3	G	A1309	260.721	111.604	9.777	1.00	70.43	A16S
ATOM	27641	C2	G	A1309	260.786	112.929	9.781	1.00	70.43	A16S
ATOM	27642	N2	G	A1309	261.981	113.546	9.786	1.00	70.43	A16S
ATOM	27643	N1	G	A1309	259.689	113.749	9.771	1.00	70.43	A16S
ATOM	27644	C6	G	A1309	258.373	113.315	9.737	1.00	70.43	A16S
ATOM	27645	O6	G	A1309	257.454	114.137	9.701	1.00	70.43	A16S
ATOM	27646	C5	G	A1309	258.291	111.907	9.737	1.00	70.43	A16S
ATOM	27647	N7	G	A1309	257.181	111.081	9.719	1.00	70.43	A16S
ATOM	27648	C8	G	A1309	257.675	109.876	9.718	1.00	70.43	A16S
ATOM	27649	C2*	G	A1309	260.321	108.417	11.213	1.00	90.49	A16S
ATOM	27650	O2*	G	A1309	261.569	107.753	11.226	1.00	90.49	A16S
ATOM	27651	C3*	G	A1309	259.177	107.548	11.714	1.00	90.49	A16S
ATOM	27652	O3*	G	A1309	259.528	106.820	12.883	1.00	90.49	A16S
ATOM	27653	P	G	A1310	259.162	107.430	14.328	1.00	77.75	A16S
ATOM	27654	O1P	G	A1310	259.604	106.424	15.334	1.00	91.36	A16S
ATOM	27655	O2P	G	A1310	257.742	107.864	14.304	1.00	91.36	A16S
ATOM	27656	O5*	G	A1310	260.055	108.751	14.433	1.00	77.75	A16S
ATOM	27657	C5*	G	A1310	261.487	108.672	14.339	1.00	77.75	A16S
ATOM	27658	C4*	G	A1310	262.119	110.049	14.353	1.00	77.75	A16S
ATOM	27659	O4*	G	A1310	261.783	110.788	13.146	1.00	77.75	A16S
ATOM	27660	C1*	G	A1310	261.793	112.181	13.428	1.00	77.75	A16S
ATOM	27661	N9	G	A1310	260.467	112.737	13.177	1.00	91.36	A16S
ATOM	27662	C4	G	A1310	260.170	114.069	13.038	1.00	91.36	A16S
ATOM	27663	N3	G	A1310	261.059	115.085	13.072	1.00	91.36	A16S
ATOM	27664	C2	G	A1310	260.471	116.261	12.926	1.00	91.36	A16S
ATOM	27665	N2	G	A1310	261.209	117.381	12.941	1.00	91.36	A16S
ATOM	27666	N1	G	A1310	259.116	116.426	12.757	1.00	91.36	A16S
ATOM	27667	C6	G	A1310	258.183	115.392	12.722	1.00	91.36	A16S
ATOM	27668	O6	G	A1310	256.980	115.649	12.571	1.00	91.36	A16S
ATOM	27669	C5	G	A1310	258.803	114.125	12.878	1.00	91.36	A16S
ATOM	27670	N7	G	A1310	258.252	112.851	12.900	1.00	91.36	A16S
ATOM	27671	C8	G	A1310	259.275	112.060	13.071	1.00	91.36	A16S
ATOM	27672	C2*	G	A1310	262.154	112.355	14.903	1.00	77.75	A16S
ATOM	27673	O2*	G	A1310	263.537	112.622	15.008	1.00	77.75	A16S
ATOM	27674	C3*	G	A1310	261.754	111.001	15.482	1.00	77.75	A16S
ATOM	27675	O3*	G	A1310	262.433	110.722	16.700	1.00	77.75	A16S
ATOM	27676	P	G	A1311	261.727	111.088	18.104	1.00	93.79	A16S
ATOM	27677	O1P	G	A1311	262.513	110.406	19.170	1.00	90.77	A16S
ATOM	27678	O2P	G	A1311	260.268	110.830	17.991	1.00	90.77	A16S
ATOM	27679	O5*	G	A1311	261.903	112.667	18.238	1.00	93.79	A16S
ATOM	27680	C5*	G	A1311	263.210	113.253	18.301	1.00	93.79	A16S
ATOM	27681	C4*	G	A1311	263.130	114.754	18.161	1.00	93.79	A16S
ATOM	27682	O4*	G	A1311	262.558	115.100	16.872	1.00	93.79	A16S
ATOM	27683	C1*	G	A1311	261.839	116.319	16.982	1.00	93.79	A16S
ATOM	27684	N9	G	A1311	260.445	116.097	16.591	1.00	90.77	A16S
ATOM	27685	C4	G	A1311	259.565	117.075	16.197	1.00	90.77	A16S
ATOM	27686	N3	G	A1311	259.847	118.388	16.089	1.00	90.77	A16S
ATOM	27687	C2	G	A1311	258.799	119.089	15.709	1.00	90.77	A16S
ATOM	27688	N2	G	A1311	258.909	120.413	15.572	1.00	90.77	A16S
ATOM	27689	N1	G	A1311	257.570	118.548	15.440	1.00	90.77	A16S
ATOM	27690	C6	G	A1311	257.255	117.199	15.535	1.00	90.77	A16S
ATOM	27691	O6	G	A1311	256.111	116.817	15.263	1.00	90.77	A16S
ATOM	27692	C5	G	A1311	258.375	116.428	15.958	1.00	90.77	A16S
ATOM	27693	N7	G	A1311	258.500	115.062	16.188	1.00	90.77	A16S
ATOM	27694	C8	G	A1311	259.744	114.910	16.557	1.00	90.77	A16S
ATOM	27695	C2*	G	A1311	261.956	116.795	18.431	1.00	93.79	A16S
ATOM	27696	O2*	G	A1311	263.001	117.745	18.554	1.00	93.79	A16S
ATOM	27697	C3*	G	A1311	262.252	115.489	19.155	1.00	93.79	A16S
ATOM	27698	O3*	G	A1311	262.886	115.705	20.400	1.00	93.79	A16S
ATOM	27699	P	G	A1312	261.989	115.780	21.733	1.00	91.42	A16S
ATOM	27700	O1P	G	A1312	262.946	116.084	22.820	1.00	77.38	A16S
ATOM	27701	O2P	G	A1312	261.148	114.545	21.819	1.00	77.38	A16S
ATOM	27702	O5*	G	A1312	261.066	117.070	21.506	1.00	91.42	A16S
ATOM	27703	C5*	G	A1312	261.673	118.378	21.499	1.00	91.42	A16S
ATOM	27704	C4*	G	A1312	260.734	119.457	20.988	1.00	91.42	A16S
ATOM	27705	O4*	G	A1312	260.248	119.142	19.657	1.00	91.42	A16S
ATOM	27706	C1*	G	A1312	259.056	119.875	19.414	1.00	91.42	A16S
ATOM	27707	N9	G	A1312	257.954	118.976	19.061	1.00	77.38	A16S
ATOM	27708	C4	G	A1312	256.709	119.386	18.635	1.00	77.38	A16S
ATOM	27709	N3	G	A1312	256.321	120.665	18.453	1.00	77.38	A16S
ATOM	27710	C2	G	A1312	255.069	120.750	18.067	1.00	77.38	A16S
ATOM	27711	N2	G	A1312	254.531	121.953	17.848	1.00	77.38	A16S
ATOM	27712	N1	G	A1312	254.255	119.665	17.869	1.00	77.38	A16S
ATOM	27713	C6	G	A1312	254.633	118.336	18.045	1.00	77.38	A16S



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ATOM	27714	O6	G	A1312	253.817	117.427	17.835	1.00	77.38	A16S
ATOM	27715	C5	G	A1312	255.980	118.231	18.466	1.00	77.38	A16S
ATOM	27716	N7	G	A1312	256.749	117.113	18.761	1.00	77.38	A16S
ATOM	27717	C8	G	A1312	257.914	117.601	19.104	1.00	77.38	A16S
ATOM	27718	C2*	G	A1312	258.718	120.639	20.692	1.00	91.42	A16S
ATOM	27719	O2*	G	A1312	259.208	121.956	20.557	1.00	91.42	A16S
ATOM	27720	C3*	G	A1312	259.470	119.839	21.750	1.00	91.42	A16S
ATOM	27721	O3*	G	A1312	259.696	120.665	22.893	1.00	91.42	A16S
ATOM	27722	P	U	A1313	258.502	120.910	23.949	1.00	102.08	A16S
ATOM	27723	O1P	U	A1313	259.039	121.671	25.094	1.00	85.28	A16S
ATOM	27724	O2P	U	A1313	257.823	119.609	24.190	1.00	85.28	A16S
ATOM	27725	O5*	U	A1313	257.517	121.910	23.198	1.00	102.08	A16S
ATOM	27726	C5*	U	A1313	257.970	123.223	22.825	1.00	102.08	A16S
ATOM	27727	C4*	U	A1313	256.825	124.067	22.318	1.00	102.08	A16S
ATOM	27728	O4*	U	A1313	256.249	123.462	21.132	1.00	102.08	A16S
ATOM	27729	C1*	U	A1313	254.852	123.729	21.084	1.00	102.08	A16S
ATOM	27730	N1	U	A1313	254.118	122.449	21.087	1.00	85.28	A16S
ATOM	27731	C6	U	A1313	254.661	121.311	21.649	1.00	85.28	A16S
ATOM	27732	C2	U	A1313	252.851	122.420	20.508	1.00	85.28	A16S
ATOM	27733	O2	U	A1313	252.318	123.406	20.006	1.00	85.28	A16S
ATOM	27734	N3	U	A1313	252.229	121.194	20.546	1.00	85.28	A16S
ATOM	27735	C4	U	A1313	252.720	120.025	21.096	1.00	85.28	A16S
ATOM	27736	O4	U	A1313	252.011	119.017	21.110	1.00	85.28	A16S
ATOM	27737	C5	U	A1313	254.023	120.138	21.672	1.00	85.28	A16S
ATOM	27738	C2*	U	A1313	254.511	124.596	22.294	1.00	102.08	A16S
ATOM	27739	O2*	U	A1313	254.517	125.962	21.920	1.00	102.08	A16S
ATOM	27740	C3*	U	A1313	255.641	124.240	23.251	1.00	102.08	A16S
ATOM	27741	O3*	U	A1313	255.850	125.250	24.215	1.00	102.08	A16S
ATOM	27742	P	C	A1314	255.070	125.163	25.613	1.00	130.79	A16S
ATOM	27743	O1P	C	A1314	255.412	126.390	26.369	1.00	74.63	A16S
ATOM	27744	O2P	C	A1314	255.357	123.831	26.209	1.00	74.63	A16S
ATOM	27745	O5*	C	A1314	253.535	125.254	25.183	1.00	130.79	A16S
ATOM	27746	C5*	C	A1314	253.024	126.447	24.548	1.00	130.79	A16S
ATOM	27747	C4*	C	A1314	251.565	126.286	24.171	1.00	130.79	A16S
ATOM	27748	O4*	C	A1314	251.406	125.359	23.060	1.00	130.79	A16S
ATOM	27749	C1*	C	A1314	250.146	124.703	23.162	1.00	130.79	A16S
ATOM	27750	N1	C	A1314	250.354	123.246	23.284	1.00	74.63	A16S
ATOM	27751	C6	C	A1314	251.470	122.742	23.895	1.00	74.63	A16S
ATOM	27752	C2	C	A1314	249.374	122.376	22.781	1.00	74.63	A16S
ATOM	27753	O2	C	A1314	248.371	122.851	22.230	1.00	74.63	A16S
ATOM	27754	N3	C	A1314	249.544	121.040	22.916	1.00	74.63	A16S
ATOM	27755	C4	C	A1314	250.629	120.561	23.527	1.00	74.63	A16S
ATOM	27756	N4	C	A1314	250.746	119.233	23.655	1.00	74.63	A16S
ATOM	27757	C5	C	A1314	251.643	121.420	24.039	1.00	74.63	A16S
ATOM	27758	C2*	C	A1314	249.449	125.241	24.409	1.00	130.79	A16S
ATOM	27759	O2*	C	A1314	248.556	126.278	24.055	1.00	130.79	A16S
ATOM	27760	C3*	C	A1314	250.632	125.733	25.231	1.00	130.79	A16S
ATOM	27761	O3*	C	A1314	250.232	126.679	26.191	1.00	130.79	A16S
ATOM	27762	P	U	A1315	249.641	126.158	27.586	1.00	91.64	A16S
ATOM	27763	O1P	U	A1315	249.565	127.351	28.467	1.00	87.80	A16S
ATOM	27764	O2P	U	A1315	250.400	124.957	28.025	1.00	87.80	A16S
ATOM	27765	O5*	U	A1315	248.165	125.669	27.231	1.00	91.64	A16S
ATOM	27766	C5*	U	A1315	247.129	126.613	26.866	1.00	91.64	A16S
ATOM	27767	C4*	U	A1315	245.854	125.886	26.498	1.00	91.64	A16S
ATOM	27768	O4*	U	A1315	246.107	125.041	25.349	1.00	91.64	A16S
ATOM	27769	C1*	U	A1315	245.307	123.881	25.432	1.00	91.64	A16S
ATOM	27770	N1	U	A1315	246.167	122.690	25.345	1.00	87.80	A16S
ATOM	27771	C6	U	A1315	247.486	122.722	25.727	1.00	87.80	A16S
ATOM	27772	C2	U	A1315	245.592	121.514	24.866	1.00	87.80	A16S
ATOM	27773	O2	U	A1315	244.426	121.436	24.496	1.00	87.80	A16S
ATOM	27774	N3	U	A1315	246.432	120.429	24.832	1.00	87.80	A16S
ATOM	27775	C4	U	A1315	247.755	120.393	25.206	1.00	87.80	A16S
ATOM	27776	O4	U	A1315	248.380	119.333	25.110	1.00	87.80	A16S
ATOM	27777	C5	U	A1315	248.278	121.645	25.677	1.00	87.80	A16S
ATOM	27778	C2*	U	A1315	244.480	123.954	26.719	1.00	91.64	A16S
ATOM	27779	O2*	U	A1315	243.182	124.405	26.395	1.00	91.64	A16S
ATOM	27780	C3*	U	A1315	245.271	124.955	27.556	1.00	91.64	A16S
ATOM	27781	O3*	U	A1315	244.404	125.674	28.446	1.00	91.64	A16S
ATOM	27782	P	G	A1316	244.506	125.464	30.052	1.00	94.78	A16S
ATOM	27783	O1P	G	A1316	243.575	126.476	30.632	1.00	104.36	A16S
ATOM	27784	O2P	G	A1316	245.931	125.435	30.494	1.00	104.36	A16S
ATOM	27785	O5*	G	A1316	243.899	124.017	30.326	1.00	94.78	A16S
ATOM	27786	C5*	G	A1316	242.507	123.769	30.145	1.00	94.78	A16S
ATOM	27787	C4*	G	A1316	242.291	122.321	29.848	1.00	94.78	A16S
ATOM	27788	O4*	G	A1316	243.076	121.963	28.689	1.00	94.78	A16S
ATOM	27789	C1*	G	A1316	243.487	120.616	28.799	1.00	94.78	A16S
ATOM	27790	N9	G	A1316	244.937	120.547	28.681	1.00	104.36	A16S



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ATOM	27791	C4	G	A1316	245.653	119.423	28.346	1.00104.36	A16S
ATOM	27792	N3	G	A1316	245.133	118.214	28.041	1.00104.36	A16S
ATOM	27793	C2	G	A1316	246.070	117.321	27.791	1.00104.36	A16S
ATOM	27794	N2	G	A1316	245.730	116.072	27.483	1.00104.36	A16S
ATOM	27795	N1	G	A1316	247.411	117.588	27.830	1.00104.36	A16S
ATOM	27796	C6	G	A1316	247.973	118.821	28.140	1.00104.36	A16S
ATOM	27797	O6	G	A1316	249.200	118.947	28.152	1.00104.36	A16S
ATOM	27798	C5	G	A1316	246.975	119.798	28.415	1.00104.36	A16S
ATOM	27799	N7	G	A1316	247.091	121.140	28.763	1.00104.36	A16S
ATOM	27800	C8	G	A1316	245.857	121.544	28.904	1.00104.36	A16S
ATOM	27801	C2*	G	A1316	243.007	120.077	30.147	1.00 94.78	A16S
ATOM	27802	O2*	G	A1316	241.840	119.297	29.986	1.00 94.78	A16S
ATOM	27803	C3*	G	A1316	242.764	121.363	30.923	1.00 94.78	A16S
ATOM	27804	O3*	G	A1316	241.778	121.178	31.924	1.00 94.78	A16S
ATOM	27805	P	C	A1317	242.215	121.144	33.466	1.00 89.97	A16S
ATOM	27806	O1P	C	A1317	242.961	122.414	33.683	1.00 86.29	A16S
ATOM	27807	O2P	C	A1317	241.025	120.824	34.305	1.00 86.29	A16S
ATOM	27808	O5*	C	A1317	243.209	119.905	33.565	1.00 89.97	A16S
ATOM	27809	C5*	C	A1317	244.120	119.796	34.662	1.00 89.97	A16S
ATOM	27810	C4*	C	A1317	244.471	118.352	34.921	1.00 89.97	A16S
ATOM	27811	O4*	C	A1317	243.301	117.628	35.386	1.00 89.97	A16S
ATOM	27812	C1*	C	A1317	243.405	116.269	34.992	1.00 89.97	A16S
ATOM	27813	N1	C	A1317	242.183	115.880	34.267	1.00 86.29	A16S
ATOM	27814	C6	C	A1317	241.430	116.811	33.600	1.00 86.29	A16S
ATOM	27815	C2	C	A1317	241.796	114.523	34.271	1.00 86.29	A16S
ATOM	27816	O2	C	A1317	242.500	113.692	34.870	1.00 86.29	A16S
ATOM	27817	N3	C	A1317	240.667	114.156	33.622	1.00 86.29	A16S
ATOM	27818	C4	C	A1317	239.933	115.077	32.986	1.00 86.29	A16S
ATOM	27819	N4	C	A1317	238.814	114.668	32.371	1.00 86.29	A16S
ATOM	27820	C5	C	A1317	240.309	116.459	32.955	1.00 86.29	A16S
ATOM	27821	C2*	C	A1317	244.686	116.108	34.167	1.00 89.97	A16S
ATOM	27822	O2*	C	A1317	245.705	115.568	34.981	1.00 89.97	A16S
ATOM	27823	C3*	C	A1317	244.970	117.544	33.736	1.00 89.97	A16S
ATOM	27824	O3*	C	A1317	246.351	117.761	33.479	1.00 89.97	A16S
ATOM	27825	P	A	A1318	246.861	117.896	31.959	1.00118.90	A16S
ATOM	27826	O1P	A	A1318	248.353	117.998	31.948	1.00 94.81	A16S
ATOM	27827	O2P	A	A1318	246.049	118.970	31.325	1.00 94.81	A16S
ATOM	27828	O5*	A	A1318	246.481	116.494	31.305	1.00118.90	A16S
ATOM	27829	C5*	A	A1318	246.988	115.271	31.864	1.00118.90	A16S
ATOM	27830	C4*	A	A1318	246.271	114.085	31.273	1.00118.90	A16S
ATOM	27831	O4*	A	A1318	244.854	114.192	31.553	1.00118.90	A16S
ATOM	27832	C1*	A	A1318	244.108	113.684	30.463	1.00118.90	A16S
ATOM	27833	N9	A	A1318	243.241	114.760	29.973	1.00 94.81	A16S
ATOM	27834	C4	A	A1318	241.993	114.625	29.406	1.00 94.81	A16S
ATOM	27835	N3	A	A1318	241.313	113.486	29.180	1.00 94.81	A16S
ATOM	27836	C2	A	A1318	240.130	113.747	28.607	1.00 94.81	A16S
ATOM	27837	N1	A	A1318	239.592	114.928	28.264	1.00 94.81	A16S
ATOM	27838	C6	A	A1318	240.300	116.052	28.507	1.00 94.81	A16S
ATOM	27839	N6	A	A1318	239.765	117.227	28.169	1.00 94.81	A16S
ATOM	27840	C5	A	A1318	241.572	115.913	29.109	1.00 94.81	A16S
ATOM	27841	N7	A	A1318	242.535	116.841	29.482	1.00 94.81	A16S
ATOM	27842	C8	A	A1318	243.500	116.111	29.985	1.00 94.81	A16S
ATOM	27843	C2*	A	A1318	245.103	113.146	29.426	1.00118.90	A16S
ATOM	27844	O2*	A	A1318	245.260	111.751	29.620	1.00118.90	A16S
ATOM	27845	C3*	A	A1318	246.368	113.935	29.763	1.00118.90	A16S
ATOM	27846	O3*	A	A1318	247.566	113.233	29.425	1.00118.90	A16S
ATOM	27847	P	A	A1319	248.396	113.638	28.106	1.00106.10	A16S
ATOM	27848	O1P	A	A1319	249.662	112.880	28.168	1.00 58.50	A16S
ATOM	27849	O2P	A	A1319	248.438	115.121	27.957	1.00 58.50	A16S
ATOM	27850	O5*	A	A1319	247.526	113.013	26.927	1.00106.10	A16S
ATOM	27851	C5*	A	A1319	248.037	112.913	25.582	1.00106.10	A16S
ATOM	27852	C4*	A	A1319	246.904	113.060	24.596	1.00106.10	A16S
ATOM	27853	O4*	A	A1319	246.355	114.380	24.681	1.00106.10	A16S
ATOM	27854	C1*	A	A1319	245.503	114.521	23.587	1.00106.10	A16S
ATOM	27855	N9	A	A1319	245.110	115.920	23.455	1.00 58.50	A16S
ATOM	27856	C4	A	A1319	243.911	116.330	22.929	1.00 58.50	A16S
ATOM	27857	N3	A	A1319	242.951	115.551	22.399	1.00 58.50	A16S
ATOM	27858	C2	A	A1319	241.910	116.288	22.025	1.00 58.50	A16S
ATOM	27859	N1	A	A1319	241.735	117.617	22.109	1.00 58.50	A16S
ATOM	27860	C6	A	A1319	242.724	118.370	22.635	1.00 58.50	A16S
ATOM	27861	N6	A	A1319	242.552	119.694	22.697	1.00 58.50	A16S
ATOM	27862	C5	A	A1319	243.882	117.707	23.080	1.00 58.50	A16S
ATOM	27863	N7	A	A1319	245.057	118.163	23.664	1.00 58.50	A16S
ATOM	27864	C8	A	A1319	245.758	117.067	23.853	1.00 58.50	A16S
ATOM	27865	C2*	A	A1319	246.200	113.839	22.411	1.00106.10	A16S
ATOM	27866	O2*	A	A1319	245.217	113.166	21.645	1.00106.10	A16S
ATOM	27867	C3*	A	A1319	247.227	112.919	23.113	1.00106.10	A16S



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ATOM	27868	O3*	A	A1319	247.076	111.543	22.747	1.00106.10	A16S
ATOM	27869	P	C	A1320	248.286	110.512	22.999	1.00 88.44	A16S
ATOM	27870	O1P	C	A1320	248.456	110.383	24.473	1.00 90.31	A16S
ATOM	27871	O2P	C	A1320	249.433	110.953	22.157	1.00 90.31	A16S
ATOM	27872	O5*	C	A1320	247.772	109.108	22.445	1.00 88.44	A16S
ATOM	27873	C5*	C	A1320	248.690	108.212	21.792	1.00 88.44	A16S
ATOM	27874	C4*	C	A1320	247.988	106.954	21.337	1.00 88.44	A16S
ATOM	27875	O4*	C	A1320	247.717	106.100	22.473	1.00 88.44	A16S
ATOM	27876	C1*	C	A1320	246.512	105.387	22.254	1.00 88.44	A16S
ATOM	27877	N1	C	A1320	245.556	105.764	23.313	1.00 90.31	A16S
ATOM	27878	C6	C	A1320	245.572	107.024	23.852	1.00 90.31	A16S
ATOM	27879	C2	C	A1320	244.613	104.813	23.754	1.00 90.31	A16S
ATOM	27880	O2	C	A1320	244.628	103.667	23.272	1.00 90.31	A16S
ATOM	27881	N3	C	A1320	243.717	105.170	24.695	1.00 90.31	A16S
ATOM	27882	C4	C	A1320	243.735	106.407	25.203	1.00 90.31	A16S
ATOM	27883	N4	C	A1320	242.817	106.715	26.123	1.00 90.31	A16S
ATOM	27884	C5	C	A1320	244.691	107.385	24.787	1.00 90.31	A16S
ATOM	27885	C2*	C	A1320	246.001	105.753	20.858	1.00 88.44	A16S
ATOM	27886	O2*	C	A1320	246.445	104.786	19.924	1.00 88.44	A16S
ATOM	27887	C3*	C	A1320	246.644	107.118	20.646	1.00 88.44	A16S
ATOM	27888	O3*	C	A1320	246.779	107.447	19.273	1.00 88.44	A16S
ATOM	27889	P	C	A1321	245.672	108.376	18.570	1.00 85.32	A16S
ATOM	27890	O1P	C	A1321	246.146	108.634	17.186	1.00 84.05	A16S
ATOM	27891	O2P	C	A1321	245.372	109.522	19.459	1.00 84.05	A16S
ATOM	27892	O5*	C	A1321	244.387	107.436	18.515	1.00 85.32	A16S
ATOM	27893	C5*	C	A1321	244.466	106.135	17.910	1.00 85.32	A16S
ATOM	27894	C4*	C	A1321	243.311	105.273	18.355	1.00 85.32	A16S
ATOM	27895	O4*	C	A1321	243.399	105.021	19.780	1.00 85.32	A16S
ATOM	27896	C1*	C	A1321	242.093	104.914	20.326	1.00 85.32	A16S
ATOM	27897	N1	C	A1321	241.927	105.930	21.392	1.00 84.05	A16S
ATOM	27898	C6	C	A1321	242.237	107.243	21.165	1.00 84.05	A16S
ATOM	27899	C2	C	A1321	241.419	105.531	22.650	1.00 84.05	A16S
ATOM	27900	O2	C	A1321	241.181	104.329	22.861	1.00 84.05	A16S
ATOM	27901	N3	C	A1321	241.209	106.467	23.602	1.00 84.05	A16S
ATOM	27902	C4	C	A1321	241.498	107.744	23.359	1.00 84.05	A16S
ATOM	27903	N4	C	A1321	241.260	108.629	24.329	1.00 84.05	A16S
ATOM	27904	C5	C	A1321	242.040	108.173	22.111	1.00 84.05	A16S
ATOM	27905	C2*	C	A1321	241.094	105.091	19.179	1.00 85.32	A16S
ATOM	27906	O2*	C	A1321	240.674	103.823	18.711	1.00 85.32	A16S
ATOM	27907	C3*	C	A1321	241.928	105.864	18.167	1.00 85.32	A16S
ATOM	27908	O3*	C	A1321	241.465	105.717	16.840	1.00 85.32	A16S
ATOM	27909	P	C	A1322	240.784	106.968	16.107	1.00 72.41	A16S
ATOM	27910	O1P	C	A1322	240.948	106.786	14.636	1.00 98.24	A16S
ATOM	27911	O2P	C	A1322	239.432	107.134	16.670	1.00 98.24	A16S
ATOM	27912	O5*	C	A1322	241.654	108.219	16.571	1.00 72.41	A16S
ATOM	27913	C5*	C	A1322	241.581	109.455	15.847	1.00 72.41	A16S
ATOM	27914	C4*	C	A1322	241.630	110.635	16.789	1.00 72.41	A16S
ATOM	27915	O4*	C	A1322	240.535	110.545	17.734	1.00 72.41	A16S
ATOM	27916	C1*	C	A1322	241.037	110.731	19.041	1.00 72.41	A16S
ATOM	27917	N1	C	A1322	240.222	109.969	20.003	1.00 98.24	A16S
ATOM	27918	C6	C	A1322	239.688	108.751	19.680	1.00 98.24	A16S
ATOM	27919	C2	C	A1322	240.003	110.525	21.269	1.00 98.24	A16S
ATOM	27920	O2	C	A1322	240.502	111.636	21.540	1.00 98.24	A16S
ATOM	27921	N3	C	A1322	239.259	109.843	22.163	1.00 98.24	A16S
ATOM	27922	C4	C	A1322	238.746	108.655	21.838	1.00 98.24	A16S
ATOM	27923	N4	C	A1322	238.027	108.017	22.760	1.00 98.24	A16S
ATOM	27924	C5	C	A1322	238.951	108.068	20.559	1.00 98.24	A16S
ATOM	27925	C2*	C	A1322	242.512	110.341	18.994	1.00 72.41	A16S
ATOM	27926	O2*	C	A1322	243.190	110.992	20.054	1.00 72.41	A16S
ATOM	27927	C3*	C	A1322	242.904	110.853	17.611	1.00 72.41	A16S
ATOM	27928	O3*	C	A1322	243.085	112.260	17.739	1.00 72.41	A16S
ATOM	27929	P	G	A1323	244.171	113.031	16.839	1.00 83.26	A16S
ATOM	27930	O1P	G	A1323	243.872	112.830	15.397	1.00 96.68	A16S
ATOM	27931	O2P	G	A1323	245.523	112.705	17.363	1.00 96.68	A16S
ATOM	27932	O5*	G	A1323	243.844	114.554	17.148	1.00 83.26	A16S
ATOM	27933	C5*	G	A1323	242.487	115.002	17.165	1.00 83.26	A16S
ATOM	27934	C4*	G	A1323	242.424	116.457	17.527	1.00 83.26	A16S
ATOM	27935	O4*	G	A1323	242.819	116.633	18.908	1.00 83.26	A16S
ATOM	27936	C1*	G	A1323	243.457	117.891	19.061	1.00 83.26	A16S
ATOM	27937	N9	G	A1323	244.788	117.685	19.627	1.00 96.68	A16S
ATOM	27938	C4	G	A1323	245.558	118.646	20.232	1.00 96.68	A16S
ATOM	27939	N3	G	A1323	245.213	119.941	20.406	1.00 96.68	A16S
ATOM	27940	C2	G	A1323	246.155	120.620	21.025	1.00 96.68	A16S
ATOM	27941	N2	G	A1323	245.974	121.918	21.279	1.00 96.68	A16S
ATOM	27942	N1	G	A1323	247.344	120.074	21.440	1.00 96.68	A16S
ATOM	27943	C6	G	A1323	247.719	118.744	21.273	1.00 96.68	A16S
ATOM	27944	O6	G	A1323	248.818	118.353	21.689	1.00 96.68	A16S



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ATOM	27945	C5	G	A1323	246.716	118.003	20.610	1.00	96.68	A16S
ATOM	27946	N7	G	A1323	246.678	116.665	20.248	1.00	96.68	A16S
ATOM	27947	C8	G	A1323	245.518	116.521	19.668	1.00	96.68	A16S
ATOM	27948	C2*	G	A1323	243.493	118.575	17.694	1.00	83.26	A16S
ATOM	27949	O2*	G	A1323	242.444	119.528	17.614	1.00	83.26	A16S
ATOM	27950	C3*	G	A1323	243.354	117.377	16.756	1.00	83.26	A16S
ATOM	27951	O3*	G	A1323	242.857	117.693	15.463	1.00	83.26	A16S
ATOM	27952	P	A	A1324	243.858	117.646	14.205	1.00	80.56	A16S
ATOM	27953	O1P	A	A1324	243.033	117.431	12.985	1.00	79.41	A16S
ATOM	27954	O2P	A	A1324	244.970	116.700	14.514	1.00	79.41	A16S
ATOM	27955	O5*	A	A1324	244.445	119.122	14.158	1.00	80.56	A16S
ATOM	27956	C5*	A	A1324	243.557	120.237	14.017	1.00	80.56	A16S
ATOM	27957	C4*	A	A1324	244.164	121.472	14.623	1.00	80.56	A16S
ATOM	27958	O4*	A	A1324	244.331	121.289	16.055	1.00	80.56	A16S
ATOM	27959	C1*	A	A1324	245.507	121.951	16.485	1.00	80.56	A16S
ATOM	27960	N9	A	A1324	246.439	120.937	16.979	1.00	79.41	A16S
ATOM	27961	C4	A	A1324	247.576	121.157	17.724	1.00	79.41	A16S
ATOM	27962	N3	A	A1324	248.059	122.336	18.158	1.00	79.41	A16S
ATOM	27963	C2	A	A1324	249.181	122.159	18.846	1.00	79.41	A16S
ATOM	27964	N1	A	A1324	249.826	121.028	19.129	1.00	79.41	A16S
ATOM	27965	C6	A	A1324	249.314	119.863	18.682	1.00	79.41	A16S
ATOM	27966	N6	A	A1324	249.954	118.733	18.971	1.00	79.41	A16S
ATOM	27967	C5	A	A1324	248.131	119.912	17.938	1.00	79.41	A16S
ATOM	27968	N7	A	A1324	247.364	118.923	17.344	1.00	79.41	A16S
ATOM	27969	C8	A	A1324	246.376	119.581	16.791	1.00	79.41	A16S
ATOM	27970	C2*	A	A1324	246.078	122.686	15.272	1.00	80.56	A16S
ATOM	27971	O2*	A	A1324	245.547	124.000	15.222	1.00	80.56	A16S
ATOM	27972	C3*	A	A1324	245.552	121.833	14.130	1.00	80.56	A16S
ATOM	27973	O3*	A	A1324	245.519	122.534	12.900	1.00	80.56	A16S
ATOM	27974	P	C	A1325	246.795	122.473	11.927	1.00	78.73	A16S
ATOM	27975	O1P	C	A1325	246.473	123.262	10.716	1.00	85.72	A16S
ATOM	27976	O2P	C	A1325	247.242	121.060	11.793	1.00	85.72	A16S
ATOM	27977	O5*	C	A1325	247.916	123.278	12.724	1.00	78.73	A16S
ATOM	27978	C5*	C	A1325	247.747	124.684	13.029	1.00	78.73	A16S
ATOM	27979	C4*	C	A1325	248.957	125.207	13.765	1.00	78.73	A16S
ATOM	27980	O4*	C	A1325	249.048	124.557	15.058	1.00	78.73	A16S
ATOM	27981	C1*	C	A1325	250.404	124.308	15.372	1.00	78.73	A16S
ATOM	27982	N1	C	A1325	250.590	122.861	15.538	1.00	85.72	A16S
ATOM	27983	C6	C	A1325	249.723	121.969	14.975	1.00	85.72	A16S
ATOM	27984	C2	C	A1325	251.689	122.407	16.275	1.00	85.72	A16S
ATOM	27985	O2	C	A1325	252.449	123.240	16.799	1.00	85.72	A16S
ATOM	27986	N3	C	A1325	251.898	121.078	16.398	1.00	85.72	A16S
ATOM	27987	C4	C	A1325	251.057	120.216	15.824	1.00	85.72	A16S
ATOM	27988	N4	C	A1325	251.316	118.908	15.947	1.00	85.72	A16S
ATOM	27989	C5	C	A1325	249.916	120.652	15.092	1.00	85.72	A16S
ATOM	27990	C2*	C	A1325	251.266	124.871	14.243	1.00	78.73	A16S
ATOM	27991	O2*	C	A1325	251.720	126.156	14.600	1.00	78.73	A16S
ATOM	27992	C3*	C	A1325	250.280	124.904	13.087	1.00	78.73	A16S
ATOM	27993	O3*	C	A1325	250.624	125.887	12.127	1.00	78.73	A16S
ATOM	27994	P	C	A1326	251.679	125.514	10.986	1.00	73.15	A16S
ATOM	27995	O1P	C	A1326	251.723	126.624	10.018	1.00	66.15	A16S
ATOM	27996	O2P	C	A1326	251.346	124.158	10.536	1.00	66.15	A16S
ATOM	27997	O5*	C	A1326	253.075	125.424	11.739	1.00	73.15	A16S
ATOM	27998	C5*	C	A1326	253.610	126.582	12.397	1.00	73.15	A16S
ATOM	27999	C4*	C	A1326	254.915	126.256	13.083	1.00	73.15	A16S
ATOM	28000	O4*	C	A1326	254.705	125.319	14.166	1.00	73.15	A16S
ATOM	28001	C1*	C	A1326	255.850	124.511	14.306	1.00	73.15	A16S
ATOM	28002	N1	C	A1326	255.435	123.099	14.340	1.00	66.15	A16S
ATOM	28003	C6	C	A1326	254.226	122.702	13.837	1.00	66.15	A16S
ATOM	28004	C2	C	A1326	256.297	122.158	14.929	1.00	66.15	A16S
ATOM	28005	O2	C	A1326	257.396	122.537	15.351	1.00	66.15	A16S
ATOM	28006	N3	C	A1326	255.911	120.862	15.024	1.00	66.15	A16S
ATOM	28007	C4	C	A1326	254.721	120.490	14.555	1.00	66.15	A16S
ATOM	28008	N4	C	A1326	254.370	119.210	14.697	1.00	66.15	A16S
ATOM	28009	C5	C	A1326	253.831	121.420	13.925	1.00	66.15	A16S
ATOM	28010	C2*	C	A1326	256.863	124.913	13.230	1.00	73.15	A16S
ATOM	28011	O2*	C	A1326	257.756	125.819	13.836	1.00	73.15	A16S
ATOM	28012	C3*	C	A1326	255.987	125.632	12.211	1.00	73.15	A16S
ATOM	28013	O3*	C	A1326	256.691	126.686	11.557	1.00	73.15	A16S
ATOM	28014	P	C	A1327	257.255	126.471	10.070	1.00	75.79	A16S
ATOM	28015	O1P	C	A1327	257.791	127.780	9.596	1.00	70.08	A16S
ATOM	28016	O2P	C	A1327	256.212	125.787	9.285	1.00	70.08	A16S
ATOM	28017	O5*	C	A1327	258.467	125.460	10.286	1.00	75.79	A16S
ATOM	28018	C5*	C	A1327	259.674	125.919	10.911	1.00	75.79	A16S
ATOM	28019	C4*	C	A1327	260.605	124.772	11.217	1.00	75.79	A16S
ATOM	28020	O4*	C	A1327	260.062	123.938	12.267	1.00	75.79	A16S
ATOM	28021	C1*	C	A1327	260.653	122.656	12.183	1.00	75.79	A16S



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ATOM	28022	N1	C	A1327	259.610	121.624	12.225	1.00	70.08	A16S
ATOM	28023	C6	C	A1327	258.326	121.884	11.826	1.00	70.08	A16S
ATOM	28024	C2	C	A1327	259.972	120.337	12.656	1.00	70.08	A16S
ATOM	28025	O2	C	A1327	261.127	120.144	13.078	1.00	70.08	A16S
ATOM	28026	N3	C	A1327	259.059	119.344	12.611	1.00	70.08	A16S
ATOM	28027	C4	C	A1327	257.823	119.597	12.182	1.00	70.08	A16S
ATOM	28028	N4	C	A1327	256.975	118.579	12.119	1.00	70.08	A16S
ATOM	28029	C5	C	A1327	257.409	120.908	11.788	1.00	70.08	A16S
ATOM	28030	C2*	C	A1327	261.453	122.585	10.882	1.00	75.79	A16S
ATOM	28031	O2*	C	A1327	262.829	122.672	11.187	1.00	75.79	A16S
ATOM	28032	C3*	C	A1327	260.910	123.785	10.109	1.00	75.79	A16S
ATOM	28033	O3*	C	A1327	261.857	124.286	9.179	1.00	75.79	A16S
ATOM	28034	P	C	A1328	261.960	123.611	7.729	1.00	68.82	A16S
ATOM	28035	O1P	C	A1328	262.920	124.399	6.923	1.00	87.08	A16S
ATOM	28036	O2P	C	A1328	260.581	123.402	7.219	1.00	87.08	A16S
ATOM	28037	O5*	C	A1328	262.617	122.191	8.037	1.00	68.82	A16S
ATOM	28038	C5*	C	A1328	263.966	122.118	8.515	1.00	68.82	A16S
ATOM	28039	C4*	C	A1328	264.424	120.687	8.646	1.00	68.82	A16S
ATOM	28040	O4*	C	A1328	263.731	120.024	9.732	1.00	68.82	A16S
ATOM	28041	C1*	C	A1328	263.707	118.629	9.486	1.00	68.82	A16S
ATOM	28042	N1	C	A1328	262.318	118.154	9.519	1.00	87.08	A16S
ATOM	28043	C6	C	A1328	261.274	118.984	9.218	1.00	87.08	A16S
ATOM	28044	C2	C	A1328	262.084	116.812	9.845	1.00	87.08	A16S
ATOM	28045	O2	C	A1328	263.050	116.086	10.134	1.00	87.08	A16S
ATOM	28046	N3	C	A1328	260.820	116.340	9.836	1.00	87.08	A16S
ATOM	28047	C4	C	A1328	259.811	117.152	9.524	1.00	87.08	A16S
ATOM	28048	N4	C	A1328	258.583	116.640	9.516	1.00	87.08	A16S
ATOM	28049	C5	C	A1328	260.017	118.528	9.204	1.00	87.08	A16S
ATOM	28050	C2*	C	A1328	264.334	118.380	8.115	1.00	68.82	A16S
ATOM	28051	O2*	C	A1328	265.665	117.936	8.283	1.00	68.82	A16S
ATOM	28052	C3*	C	A1328	264.218	119.756	7.467	1.00	68.82	A16S
ATOM	28053	O3*	C	A1328	265.174	119.940	6.439	1.00	68.82	A16S
ATOM	28054	P	A	A1329	264.775	119.575	4.924	1.00	83.94	A16S
ATOM	28055	O1P	A	A1329	265.994	119.782	4.096	1.00	81.54	A16S
ATOM	28056	O2P	A	A1329	263.513	120.293	4.562	1.00	81.54	A16S
ATOM	28057	O5*	A	A1329	264.465	118.012	5.003	1.00	83.94	A16S
ATOM	28058	C5*	A	A1329	265.517	117.087	5.311	1.00	83.94	A16S
ATOM	28059	C4*	A	A1329	264.985	115.678	5.417	1.00	83.94	A16S
ATOM	28060	O4*	A	A1329	264.162	115.538	6.604	1.00	83.94	A16S
ATOM	28061	C1*	A	A1329	263.176	114.539	6.379	1.00	83.94	A16S
ATOM	28062	N9	A	A1329	261.850	115.149	6.459	1.00	81.54	A16S
ATOM	28063	C4	A	A1329	260.667	114.452	6.516	1.00	81.54	A16S
ATOM	28064	N3	A	A1329	260.509	113.117	6.565	1.00	81.54	A16S
ATOM	28065	C2	A	A1329	259.217	112.799	6.578	1.00	81.54	A16S
ATOM	28066	N1	A	A1329	258.149	113.603	6.547	1.00	81.54	A16S
ATOM	28067	C6	A	A1329	258.347	114.939	6.499	1.00	81.54	A16S
ATOM	28068	N6	A	A1329	257.288	115.745	6.464	1.00	81.54	A16S
ATOM	28069	C5	A	A1329	259.668	115.405	6.485	1.00	81.54	A16S
ATOM	28070	N7	A	A1329	260.207	116.685	6.442	1.00	81.54	A16S
ATOM	28071	C8	A	A1329	261.501	116.480	6.438	1.00	81.54	A16S
ATOM	28072	C2*	A	A1329	263.378	114.000	4.964	1.00	83.94	A16S
ATOM	28073	O2*	A	A1329	264.135	112.809	5.002	1.00	83.94	A16S
ATOM	28074	C3*	A	A1329	264.094	115.165	4.296	1.00	83.94	A16S
ATOM	28075	O3*	A	A1329	264.776	114.784	3.108	1.00	83.94	A16S
ATOM	28076	P	U	A1330	264.044	115.001	1.693	1.00	88.38	A16S
ATOM	28077	O1P	U	A1330	264.996	114.760	0.568	1.00	72.91	A16S
ATOM	28078	O2P	U	A1330	263.350	116.319	1.785	1.00	72.91	A16S
ATOM	28079	O5*	U	A1330	262.939	113.850	1.684	1.00	88.38	A16S
ATOM	28080	C5*	U	A1330	263.261	112.506	2.095	1.00	88.38	A16S
ATOM	28081	C4*	U	A1330	262.004	111.677	2.239	1.00	88.38	A16S
ATOM	28082	O4*	U	A1330	261.181	112.210	3.306	1.00	88.38	A16S
ATOM	28083	C1*	U	A1330	259.806	112.040	2.982	1.00	88.38	A16S
ATOM	28084	N1	U	A1330	259.144	113.359	2.988	1.00	72.91	A16S
ATOM	28085	C6	U	A1330	259.857	114.523	2.809	1.00	72.91	A16S
ATOM	28086	C2	U	A1330	257.767	113.400	3.194	1.00	72.91	A16S
ATOM	28087	O2	U	A1330	257.082	112.399	3.347	1.00	72.91	A16S
ATOM	28088	N3	U	A1330	257.222	114.659	3.217	1.00	72.91	A16S
ATOM	28089	C4	U	A1330	257.886	115.855	3.069	1.00	72.91	A16S
ATOM	28090	O4	U	A1330	257.275	116.907	3.242	1.00	72.91	A16S
ATOM	28091	C5	U	A1330	259.290	115.732	2.842	1.00	72.91	A16S
ATOM	28092	C2*	U	A1330	259.729	111.312	1.639	1.00	88.38	A16S
ATOM	28093	O2*	U	A1330	259.566	109.918	1.849	1.00	88.38	A16S
ATOM	28094	C3*	U	A1330	261.081	111.656	1.034	1.00	88.38	A16S
ATOM	28095	O3*	U	A1330	261.479	110.700	0.083	1.00	88.38	A16S
ATOM	28096	P	G	A1331	261.622	111.139	-1.442	1.00	76.49	A16S
ATOM	28097	O1P	G	A1331	261.682	109.868	-2.205	1.00	88.65	A16S
ATOM	28098	O2P	G	A1331	262.707	112.142	-1.578	1.00	88.65	A16S



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ATOM	28099	O5*	G	A1331	260.262	111.888	-1.755	1.00	76.49	A16S
ATOM	28100	C5*	G	A1331	259.064	111.144	-1.922	1.00	76.49	A16S
ATOM	28101	C4*	G	A1331	257.928	112.064	-2.257	1.00	76.49	A16S
ATOM	28102	O4*	G	A1331	257.771	112.981	-1.159	1.00	76.49	A16S
ATOM	28103	C1*	G	A1331	257.135	114.141	-1.626	1.00	76.49	A16S
ATOM	28104	N9	G	A1331	257.668	115.306	-0.934	1.00	88.65	A16S
ATOM	28105	C4	G	A1331	256.924	116.249	-0.263	1.00	88.65	A16S
ATOM	28106	N3	G	A1331	255.583	116.223	-0.083	1.00	88.65	A16S
ATOM	28107	C2	G	A1331	255.148	117.294	0.567	1.00	88.65	A16S
ATOM	28108	N2	G	A1331	253.840	117.425	0.847	1.00	88.65	A16S
ATOM	28109	N1	G	A1331	255.964	118.316	0.994	1.00	88.65	A16S
ATOM	28110	C6	G	A1331	257.343	118.369	0.811	1.00	88.65	A16S
ATOM	28111	O6	G	A1331	257.979	119.356	1.203	1.00	88.65	A16S
ATOM	28112	C5	G	A1331	257.827	117.207	0.138	1.00	88.65	A16S
ATOM	28113	N7	G	A1331	259.119	116.844	-0.219	1.00	88.65	A16S
ATOM	28114	C8	G	A1331	258.975	115.707	-0.846	1.00	88.65	A16S
ATOM	28115	C2*	G	A1331	257.164	114.141	-3.159	1.00	76.49	A16S
ATOM	28116	O2*	G	A1331	255.842	113.915	-3.576	1.00	76.49	A16S
ATOM	28117	C3*	G	A1331	258.099	112.974	-3.464	1.00	76.49	A16S
ATOM	28118	O3*	G	A1331	257.946	112.227	-4.703	1.00	76.49	A16S
ATOM	28119	P	A	A1332	256.542	112.164	-5.521	1.00	65.80	A16S
ATOM	28120	O1P	A	A1332	256.833	111.257	-6.666	1.00	68.70	A16S
ATOM	28121	O2P	A	A1332	256.004	113.525	-5.813	1.00	68.70	A16S
ATOM	28122	O5*	A	A1332	255.540	111.393	-4.543	1.00	65.80	A16S
ATOM	28123	C5*	A	A1332	255.551	109.942	-4.431	1.00	65.80	A16S
ATOM	28124	C4*	A	A1332	254.134	109.406	-4.322	1.00	65.80	A16S
ATOM	28125	O4*	A	A1332	253.497	110.025	-3.180	1.00	65.80	A16S
ATOM	28126	C1*	A	A1332	252.145	110.321	-3.482	1.00	65.80	A16S
ATOM	28127	N9	A	A1332	251.955	111.767	-3.351	1.00	68.70	A16S
ATOM	28128	C4	A	A1332	250.761	112.432	-3.457	1.00	68.70	A16S
ATOM	28129	N3	A	A1332	249.558	111.897	-3.722	1.00	68.70	A16S
ATOM	28130	C2	A	A1332	248.624	112.844	-3.740	1.00	68.70	A16S
ATOM	28131	N1	A	A1332	248.749	114.167	-3.540	1.00	68.70	A16S
ATOM	28132	C6	A	A1332	249.973	114.668	-3.281	1.00	68.70	A16S
ATOM	28133	N6	A	A1332	250.091	115.981	-3.087	1.00	68.70	A16S
ATOM	28134	C5	A	A1332	251.049	113.766	-3.235	1.00	68.70	A16S
ATOM	28135	N7	A	A1332	252.404	113.941	-3.009	1.00	68.70	A16S
ATOM	28136	C8	A	A1332	252.895	112.730	-3.092	1.00	68.70	A16S
ATOM	28137	C2*	A	A1332	251.834	109.772	-4.876	1.00	65.80	A16S
ATOM	28138	O2*	A	A1332	251.224	108.498	-4.782	1.00	65.80	A16S
ATOM	28139	C3*	A	A1332	253.220	109.720	-5.500	1.00	65.80	A16S
ATOM	28140	O3*	A	A1332	253.283	108.696	-6.475	1.00	65.80	A16S
ATOM	28141	P	A	A1333	252.952	109.036	-8.006	1.00	80.58	A16S
ATOM	28142	O1P	A	A1333	253.225	107.771	-8.741	1.00	62.57	A16S
ATOM	28143	O2P	A	A1333	253.656	110.290	-8.406	1.00	62.57	A16S
ATOM	28144	O5*	A	A1333	251.391	109.357	-8.010	1.00	80.58	A16S
ATOM	28145	C5*	A	A1333	250.409	108.304	-8.046	1.00	80.58	A16S
ATOM	28146	C4*	A	A1333	249.012	108.887	-8.086	1.00	80.58	A16S
ATOM	28147	O4*	A	A1333	248.844	109.733	-6.919	1.00	80.58	A16S
ATOM	28148	C1*	A	A1333	248.020	110.835	-7.248	1.00	80.58	A16S
ATOM	28149	N9	A	A1333	248.786	112.063	-7.067	1.00	62.57	A16S
ATOM	28150	C4	A	A1333	248.241	113.310	-6.903	1.00	62.57	A16S
ATOM	28151	N3	A	A1333	246.936	113.630	-6.893	1.00	62.57	A16S
ATOM	28152	C2	A	A1333	246.775	114.930	-6.689	1.00	62.57	A16S
ATOM	28153	N1	A	A1333	247.699	115.878	-6.500	1.00	62.57	A16S
ATOM	28154	C6	A	A1333	249.002	115.521	-6.513	1.00	62.57	A16S
ATOM	28155	N6	A	A1333	249.924	116.467	-6.312	1.00	62.57	A16S
ATOM	28156	C5	A	A1333	249.307	114.167	-6.733	1.00	62.57	A16S
ATOM	28157	N7	A	A1333	250.508	113.478	-6.810	1.00	62.57	A16S
ATOM	28158	C8	A	A1333	250.144	112.237	-7.011	1.00	62.57	A16S
ATOM	28159	C2*	A	A1333	247.560	110.669	-8.689	1.00	80.58	A16S
ATOM	28160	O2*	A	A1333	246.307	110.025	-8.674	1.00	80.58	A16S
ATOM	28161	C3*	A	A1333	248.660	109.792	-9.267	1.00	80.58	A16S
ATOM	28162	O3*	A	A1333	248.179	109.075	-10.402	1.00	80.58	A16S
ATOM	28163	P	G	A1334	248.266	109.743	-11.871	1.00	59.84	A16S
ATOM	28164	O1P	G	A1334	247.289	109.017	-12.735	1.00	59.23	A16S
ATOM	28165	O2P	G	A1334	249.702	109.819	-12.290	1.00	59.23	A16S
ATOM	28166	O5*	G	A1334	247.744	111.241	-11.682	1.00	59.84	A16S
ATOM	28167	C5*	G	A1334	246.345	111.529	-11.456	1.00	59.84	A16S
ATOM	28168	C4*	G	A1334	246.162	112.990	-11.140	1.00	59.84	A16S
ATOM	28169	O4*	G	A1334	246.963	113.313	-9.978	1.00	59.84	A16S
ATOM	28170	C1*	G	A1334	247.508	114.611	-10.119	1.00	59.84	A16S
ATOM	28171	N9	G	A1334	248.963	114.530	-10.038	1.00	59.23	A16S
ATOM	28172	C4	G	A1334	249.813	115.597	-9.943	1.00	59.23	A16S
ATOM	28173	N3	G	A1334	249.445	116.887	-9.882	1.00	59.23	A16S
ATOM	28174	C2	G	A1334	250.481	117.683	-9.801	1.00	59.23	A16S
ATOM	28175	N2	G	A1334	250.296	118.989	-9.710	1.00	59.23	A16S



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ATOM	28176	N1	G	A1334	251.776	117.252	-9.799	1.00	59.23	A16S
ATOM	28177	C6	G	A1334	252.173	115.927	-9.874	1.00	59.23	A16S
ATOM	28178	O6	G	A1334	253.366	115.645	-9.884	1.00	59.23	A16S
ATOM	28179	C5	G	A1334	251.077	115.062	-9.940	1.00	59.23	A16S
ATOM	28180	N7	G	A1334	251.030	113.679	-10.019	1.00	59.23	A16S
ATOM	28181	C8	G	A1334	249.755	113.406	-10.067	1.00	59.23	A16S
ATOM	28182	C2*	G	A1334	247.043	115.187	-11.458	1.00	59.84	A16S
ATOM	28183	O2*	G	A1334	245.991	116.104	-11.251	1.00	59.84	A16S
ATOM	28184	C3*	G	A1334	246.655	113.929	-12.226	1.00	59.84	A16S
ATOM	28185	O3*	G	A1334	245.632	114.179	-13.174	1.00	59.84	A16S
ATOM	28186	P	C	A1335	245.881	113.826	-14.711	1.00	57.72	A16S
ATOM	28187	O1P	C	A1335	244.608	114.051	-15.423	1.00	79.98	A16S
ATOM	28188	O2P	C	A1335	246.543	112.497	-14.767	1.00	79.98	A16S
ATOM	28189	O5*	C	A1335	246.906	114.931	-15.204	1.00	57.72	A16S
ATOM	28190	C5*	C	A1335	246.597	116.304	-15.024	1.00	57.72	A16S
ATOM	28191	C4*	C	A1335	247.103	117.117	-16.185	1.00	57.72	A16S
ATOM	28192	O4*	C	A1335	248.538	117.294	-16.074	1.00	57.72	A16S
ATOM	28193	C1*	C	A1335	249.157	116.917	-17.285	1.00	57.72	A16S
ATOM	28194	N1	C	A1335	250.415	116.222	-16.953	1.00	79.98	A16S
ATOM	28195	C6	C	A1335	250.381	114.957	-16.439	1.00	79.98	A16S
ATOM	28196	C2	C	A1335	251.653	116.862	-17.183	1.00	79.98	A16S
ATOM	28197	O2	C	A1335	251.677	118.029	-17.625	1.00	79.98	A16S
ATOM	28198	N3	C	A1335	252.790	116.186	-16.914	1.00	79.98	A16S
ATOM	28199	C4	C	A1335	252.732	114.939	-16.435	1.00	79.98	A16S
ATOM	28200	N4	C	A1335	253.873	114.299	-16.206	1.00	79.98	A16S
ATOM	28201	C5	C	A1335	251.501	114.288	-16.175	1.00	79.98	A16S
ATOM	28202	C2*	C	A1335	248.158	116.020	-18.027	1.00	57.72	A16S
ATOM	28203	O2*	C	A1335	248.337	116.140	-19.427	1.00	57.72	A16S
ATOM	28204	C3*	C	A1335	246.813	116.582	-17.583	1.00	57.72	A16S
ATOM	28205	O3*	C	A1335	246.489	117.661	-18.446	1.00	57.72	A16S
ATOM	28206	P	C	A1336	245.571	117.404	-19.734	1.00	53.15	A16S
ATOM	28207	O1P	C	A1336	245.612	115.950	-20.043	1.00	95.94	A16S
ATOM	28208	O2P	C	A1336	245.973	118.390	-20.777	1.00	95.94	A16S
ATOM	28209	O5*	C	A1336	244.104	117.754	-19.214	1.00	53.15	A16S
ATOM	28210	C5*	C	A1336	243.401	116.882	-18.289	1.00	53.15	A16S
ATOM	28211	C4*	C	A1336	242.273	117.635	-17.594	1.00	53.15	A16S
ATOM	28212	O4*	C	A1336	242.783	118.419	-16.485	1.00	53.15	A16S
ATOM	28213	C1*	C	A1336	242.435	119.777	-16.653	1.00	53.15	A16S
ATOM	28214	N1	C	A1336	243.595	120.598	-16.246	1.00	95.94	A16S
ATOM	28215	C6	C	A1336	244.867	120.134	-16.435	1.00	95.94	A16S
ATOM	28216	C2	C	A1336	243.384	121.865	-15.661	1.00	95.94	A16S
ATOM	28217	O2	C	A1336	242.221	122.287	-15.501	1.00	95.94	A16S
ATOM	28218	N3	C	A1336	244.457	122.596	-15.290	1.00	95.94	A16S
ATOM	28219	C4	C	A1336	245.691	122.122	-15.481	1.00	95.94	A16S
ATOM	28220	N4	C	A1336	246.718	122.876	-15.098	1.00	95.94	A16S
ATOM	28221	C5	C	A1336	245.928	120.854	-16.070	1.00	95.94	A16S
ATOM	28222	C2*	C	A1336	242.064	119.953	-18.125	1.00	53.15	A16S
ATOM	28223	O2*	C	A1336	241.150	121.015	-18.285	1.00	53.15	A16S
ATOM	28224	C3*	C	A1336	241.474	118.589	-18.468	1.00	53.15	A16S
ATOM	28225	O3*	C	A1336	240.115	118.527	-18.070	1.00	53.15	A16S
ATOM	28226	P	G	A1337	238.954	118.432	-19.183	1.00	59.30	A16S
ATOM	28227	O1P	G	A1337	239.565	118.256	-20.534	1.00	66.66	A16S
ATOM	28228	O2P	G	A1337	238.033	119.586	-18.953	1.00	66.66	A16S
ATOM	28229	O5*	G	A1337	238.200	117.080	-18.797	1.00	59.30	A16S
ATOM	28230	C5*	G	A1337	238.531	115.839	-19.439	1.00	59.30	A16S
ATOM	28231	C4*	G	A1337	238.396	114.705	-18.457	1.00	59.30	A16S
ATOM	28232	O4*	G	A1337	239.349	114.929	-17.398	1.00	59.30	A16S
ATOM	28233	C1*	G	A1337	238.730	114.758	-16.151	1.00	59.30	A16S
ATOM	28234	N9	G	A1337	238.816	116.061	-15.514	1.00	66.66	A16S
ATOM	28235	C4	G	A1337	239.930	116.569	-14.909	1.00	66.66	A16S
ATOM	28236	N3	G	A1337	241.099	115.919	-14.738	1.00	66.66	A16S
ATOM	28237	C2	G	A1337	242.009	116.685	-14.169	1.00	66.66	A16S
ATOM	28238	N2	G	A1337	243.239	116.197	-13.933	1.00	66.66	A16S
ATOM	28239	N1	G	A1337	241.782	117.983	-13.792	1.00	66.66	A16S
ATOM	28240	C6	G	A1337	240.580	118.663	-13.954	1.00	66.66	A16S
ATOM	28241	O6	G	A1337	240.476	119.833	-13.574	1.00	66.66	A16S
ATOM	28242	C5	G	A1337	239.605	117.855	-14.567	1.00	66.66	A16S
ATOM	28243	N7	G	A1337	238.296	118.141	-14.915	1.00	66.66	A16S
ATOM	28244	C8	G	A1337	237.862	117.042	-15.460	1.00	66.66	A16S
ATOM	28245	C2*	G	A1337	237.336	114.163	-16.387	1.00	59.30	A16S
ATOM	28246	O2*	G	A1337	237.421	112.759	-16.274	1.00	59.30	A16S
ATOM	28247	C3*	G	A1337	237.023	114.628	-17.810	1.00	59.30	A16S
ATOM	28248	O3*	G	A1337	236.218	113.661	-18.506	1.00	59.30	A16S
ATOM	28249	P	G	A1338	235.623	113.990	-19.975	1.00	60.95	A16S
ATOM	28250	O1P	G	A1338	234.675	115.147	-19.910	1.00	75.48	A16S
ATOM	28251	O2P	G	A1338	236.748	114.040	-20.936	1.00	75.48	A16S
ATOM	28252	O5*	G	A1338	234.763	112.679	-20.277	1.00	60.95	A16S



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ATOM	28253	C5*	G	A1338	235.261	111.631	-21.147	1.00	60.95	A16S
ATOM	28254	C4*	G	A1338	234.337	110.425	-21.125	1.00	60.95	A16S
ATOM	28255	O4*	G	A1338	234.624	109.569	-19.997	1.00	60.95	A16S
ATOM	28256	C1*	G	A1338	233.424	109.019	-19.494	1.00	60.95	A16S
ATOM	28257	N9	G	A1338	233.323	109.384	-18.083	1.00	75.48	A16S
ATOM	28258	C4	G	A1338	232.648	108.693	-17.106	1.00	75.48	A16S
ATOM	28259	N3	G	A1338	231.927	107.573	-17.287	1.00	75.48	A16S
ATOM	28260	C2	G	A1338	231.406	107.134	-16.157	1.00	75.48	A16S
ATOM	28261	N2	G	A1338	230.644	106.047	-16.155	1.00	75.48	A16S
ATOM	28262	N1	G	A1338	231.586	107.727	-14.942	1.00	75.48	A16S
ATOM	28263	C6	G	A1338	232.330	108.874	-14.722	1.00	75.48	A16S
ATOM	28264	O6	G	A1338	232.446	109.314	-13.567	1.00	75.48	A16S
ATOM	28265	C5	G	A1338	232.883	109.381	-15.939	1.00	75.48	A16S
ATOM	28266	N7	G	A1338	233.666	110.503	-16.178	1.00	75.48	A16S
ATOM	28267	C8	G	A1338	233.900	110.466	-17.461	1.00	75.48	A16S
ATOM	28268	C2*	G	A1338	232.269	109.496	-20.381	1.00	60.95	A16S
ATOM	28269	O2*	G	A1338	231.941	108.470	-21.294	1.00	60.95	A16S
ATOM	28270	C3*	G	A1338	232.862	110.747	-21.026	1.00	60.95	A16S
ATOM	28271	O3*	G	A1338	232.372	111.003	-22.327	1.00	60.95	A16S
ATOM	28272	P	A	A1339	231.246	112.120	-22.543	1.00	53.73	A16S
ATOM	28273	O1P	A	A1339	231.183	112.438	-24.006	1.00	67.05	A16S
ATOM	28274	O2P	A	A1339	231.489	113.216	-21.569	1.00	67.05	A16S
ATOM	28275	O5*	A	A1339	229.915	111.356	-22.110	1.00	53.73	A16S
ATOM	28276	C5*	A	A1339	229.431	110.232	-22.864	1.00	53.73	A16S
ATOM	28277	C4*	A	A1339	228.450	109.443	-22.046	1.00	53.73	A16S
ATOM	28278	O4*	A	A1339	229.143	108.833	-20.932	1.00	53.73	A16S
ATOM	28279	C1*	A	A1339	228.298	108.823	-19.795	1.00	53.73	A16S
ATOM	28280	N9	A	A1339	228.907	109.642	-18.752	1.00	67.05	A16S
ATOM	28281	C4	A	A1339	228.784	109.458	-17.399	1.00	67.05	A16S
ATOM	28282	N3	A	A1339	228.125	108.476	-16.767	1.00	67.05	A16S
ATOM	28283	C2	A	A1339	228.209	108.630	-15.456	1.00	67.05	A16S
ATOM	28284	N1	A	A1339	228.824	109.581	-14.759	1.00	67.05	A16S
ATOM	28285	C6	A	A1339	229.472	110.556	-15.431	1.00	67.05	A16S
ATOM	28286	N6	A	A1339	230.082	111.520	-14.740	1.00	67.05	A16S
ATOM	28287	C5	A	A1339	229.464	110.502	-16.818	1.00	67.05	A16S
ATOM	28288	N7	A	A1339	230.024	111.321	-17.781	1.00	67.05	A16S
ATOM	28289	C8	A	A1339	229.673	110.765	-18.908	1.00	67.05	A16S
ATOM	28290	C2*	A	A1339	226.956	109.430	-20.203	1.00	53.73	A16S
ATOM	28291	O2*	A	A1339	226.036	108.395	-20.467	1.00	53.73	A16S
ATOM	28292	C3*	A	A1339	227.355	110.270	-21.406	1.00	53.73	A16S
ATOM	28293	O3*	A	A1339	226.289	110.509	-22.294	1.00	53.73	A16S
ATOM	28294	P	A	A1340	225.728	112.003	-22.472	1.00	58.74	A16S
ATOM	28295	O1P	A	A1340	224.492	111.910	-23.290	1.00	75.23	A16S
ATOM	28296	O2P	A	A1340	226.844	112.874	-22.934	1.00	75.23	A16S
ATOM	28297	O5*	A	A1340	225.311	112.429	-20.991	1.00	58.74	A16S
ATOM	28298	C5*	A	A1340	224.298	111.691	-20.287	1.00	58.74	A16S
ATOM	28299	C4*	A	A1340	224.377	111.928	-18.791	1.00	58.74	A16S
ATOM	28300	O4*	A	A1340	225.707	111.605	-18.298	1.00	58.74	A16S
ATOM	28301	C1*	A	A1340	226.016	112.430	-17.191	1.00	58.74	A16S
ATOM	28302	N9	A	A1340	227.081	113.351	-17.589	1.00	75.23	A16S
ATOM	28303	C4	A	A1340	227.865	114.094	-16.741	1.00	75.23	A16S
ATOM	28304	N3	A	A1340	227.863	114.069	-15.399	1.00	75.23	A16S
ATOM	28305	C2	A	A1340	228.734	114.945	-14.918	1.00	75.23	A16S
ATOM	28306	N1	A	A1340	229.543	115.782	-15.573	1.00	75.23	A16S
ATOM	28307	C6	A	A1340	229.517	115.786	-16.918	1.00	75.23	A16S
ATOM	28308	N6	A	A1340	230.314	116.632	-17.566	1.00	75.23	A16S
ATOM	28309	C5	A	A1340	228.644	114.898	-17.554	1.00	75.23	A16S
ATOM	28310	N7	A	A1340	228.388	114.640	-18.891	1.00	75.23	A16S
ATOM	28311	C8	A	A1340	227.465	113.709	-18.859	1.00	75.23	A16S
ATOM	28312	C2*	A	A1340	224.767	113.260	-16.892	1.00	58.74	A16S
ATOM	28313	O2*	A	A1340	223.942	112.605	-15.944	1.00	58.74	A16S
ATOM	28314	C3*	A	A1340	224.110	113.328	-18.261	1.00	58.74	A16S
ATOM	28315	O3*	A	A1340	222.729	113.627	-18.122	1.00	58.74	A16S
ATOM	28316	P	U	A1341	222.244	115.162	-18.150	1.00	55.71	A16S
ATOM	28317	O1P	U	A1341	220.780	115.195	-17.932	1.00	69.25	A16S
ATOM	28318	O2P	U	A1341	222.815	115.826	-19.351	1.00	69.25	A16S
ATOM	28319	O5*	U	A1341	222.942	115.815	-16.881	1.00	55.71	A16S
ATOM	28320	C5*	U	A1341	222.623	115.395	-15.543	1.00	55.71	A16S
ATOM	28321	C4*	U	A1341	223.427	116.203	-14.539	1.00	55.71	A16S
ATOM	28322	O4*	U	A1341	224.844	115.956	-14.761	1.00	55.71	A16S
ATOM	28323	C1*	U	A1341	225.576	117.159	-14.593	1.00	55.71	A16S
ATOM	28324	N1	U	A1341	226.161	117.537	-15.890	1.00	69.25	A16S
ATOM	28325	C6	U	A1341	225.527	117.250	-17.073	1.00	69.25	A16S
ATOM	28326	C2	U	A1341	227.371	118.190	-15.882	1.00	69.25	A16S
ATOM	28327	O2	U	A1341	227.962	118.481	-14.863	1.00	69.25	A16S
ATOM	28328	N3	U	A1341	227.867	118.500	-17.116	1.00	69.25	A16S
ATOM	28329	C4	U	A1341	227.289	118.237	-18.328	1.00	69.25	A16S



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ATOM	28330	O4	U	A1341	227.868	118.577	-19.354	1.00	69.25	A16S
ATOM	28331	C5	U	A1341	226.034	117.570	-18.257	1.00	69.25	A16S
ATOM	28332	C2*	U	A1341	224.601	118.212	-14.074	1.00	55.71	A16S
ATOM	28333	O2*	U	A1341	224.578	118.163	-12.660	1.00	55.71	A16S
ATOM	28334	C3*	U	A1341	223.288	117.715	-14.646	1.00	55.71	A16S
ATOM	28335	O3*	U	A1341	222.205	118.237	-13.909	1.00	55.71	A16S
ATOM	28336	P	C	A1342	221.792	119.771	-14.122	1.00	48.71	A16S
ATOM	28337	O1P	C	A1342	220.394	119.940	-13.653	1.00	71.85	A16S
ATOM	28338	O2P	C	A1342	222.146	120.147	-15.510	1.00	71.85	A16S
ATOM	28339	O5*	C	A1342	222.753	120.587	-13.144	1.00	48.71	A16S
ATOM	28340	C5*	C	A1342	222.654	120.462	-11.700	1.00	48.71	A16S
ATOM	28341	C4*	C	A1342	223.524	121.502	-11.011	1.00	48.71	A16S
ATOM	28342	O4*	C	A1342	224.918	121.260	-11.350	1.00	48.71	A16S
ATOM	28343	C1*	C	A1342	225.606	122.497	-11.444	1.00	48.71	A16S
ATOM	28344	N1	C	A1342	226.106	122.682	-12.813	1.00	71.85	A16S
ATOM	28345	C6	C	A1342	225.525	122.053	-13.879	1.00	71.85	A16S
ATOM	28346	C2	C	A1342	227.179	123.544	-13.005	1.00	71.85	A16S
ATOM	28347	O2	C	A1342	227.687	124.095	-12.014	1.00	71.85	A16S
ATOM	28348	N3	C	A1342	227.634	123.765	-14.258	1.00	71.85	A16S
ATOM	28349	C4	C	A1342	227.052	123.162	-15.295	1.00	71.85	A16S
ATOM	28350	N4	C	A1342	227.524	123.422	-16.514	1.00	71.85	A16S
ATOM	28351	C5	C	A1342	225.959	122.266	-15.126	1.00	71.85	A16S
ATOM	28352	C2*	C	A1342	224.627	123.618	-11.104	1.00	48.71	A16S
ATOM	28353	O2*	C	A1342	224.819	124.016	-9.763	1.00	48.71	A16S
ATOM	28354	C3*	C	A1342	223.285	122.960	-11.401	1.00	48.71	A16S
ATOM	28355	O3*	C	A1342	222.222	123.588	-10.687	1.00	48.71	A16S
ATOM	28356	P	G	A1343	221.573	124.939	-11.268	1.00	55.14	A16S
ATOM	28357	O1P	G	A1343	220.304	125.208	-10.568	1.00	66.53	A16S
ATOM	28358	O2P	G	A1343	221.573	124.857	-12.742	1.00	66.53	A16S
ATOM	28359	O5*	G	A1343	222.618	126.058	-10.834	1.00	55.14	A16S
ATOM	28360	C5*	G	A1343	222.993	126.237	-9.448	1.00	55.14	A16S
ATOM	28361	C4*	G	A1343	224.013	127.349	-9.322	1.00	55.14	A16S
ATOM	28362	O4*	G	A1343	225.250	126.935	-9.954	1.00	55.14	A16S
ATOM	28363	C1*	G	A1343	225.834	128.036	-10.626	1.00	55.14	A16S
ATOM	28364	N9	G	A1343	225.928	127.688	-12.038	1.00	66.53	A16S
ATOM	28365	C4	G	A1343	226.816	128.184	-12.952	1.00	66.53	A16S
ATOM	28366	N3	G	A1343	227.770	129.107	-12.715	1.00	66.53	A16S
ATOM	28367	C2	G	A1343	228.461	129.388	-13.805	1.00	66.53	A16S
ATOM	28368	N2	G	A1343	229.429	130.305	-13.765	1.00	66.53	A16S
ATOM	28369	N1	G	A1343	228.245	128.797	-15.021	1.00	66.53	A16S
ATOM	28370	C6	G	A1343	227.265	127.847	-15.283	1.00	66.53	A16S
ATOM	28371	O6	G	A1343	227.140	127.380	-16.421	1.00	66.53	A16S
ATOM	28372	C5	G	A1343	226.513	127.549	-14.132	1.00	66.53	A16S
ATOM	28373	N7	G	A1343	225.453	126.679	-13.963	1.00	66.53	A16S
ATOM	28374	C8	G	A1343	225.140	126.794	-12.708	1.00	66.53	A16S
ATOM	28375	C2*	G	A1343	224.969	129.274	-10.361	1.00	55.14	A16S
ATOM	28376	O2*	G	A1343	225.499	130.039	-9.291	1.00	55.14	A16S
ATOM	28377	C3*	G	A1343	223.628	128.650	-10.010	1.00	55.14	A16S
ATOM	28378	O3*	G	A1343	222.907	129.486	-9.129	1.00	55.14	A16S
ATOM	28379	P	C	A1344	221.715	130.393	-9.698	1.00	45.80	A16S
ATOM	28380	O1P	C	A1344	220.972	130.895	-8.511	1.00	77.95	A16S
ATOM	28381	O2P	C	A1344	220.990	129.633	-10.757	1.00	77.95	A16S
ATOM	28382	O5*	C	A1344	222.448	131.633	-10.371	1.00	45.80	A16S
ATOM	28383	C5*	C	A1344	223.128	132.606	-9.569	1.00	45.80	A16S
ATOM	28384	C4*	C	A1344	224.069	133.400	-10.427	1.00	45.80	A16S
ATOM	28385	O4*	C	A1344	225.023	132.484	-11.023	1.00	45.80	A16S
ATOM	28386	C1*	C	A1344	225.370	132.937	-12.319	1.00	45.80	A16S
ATOM	28387	N1	C	A1344	225.109	131.877	-13.301	1.00	77.95	A16S
ATOM	28388	C6	C	A1344	224.094	130.977	-13.129	1.00	77.95	A16S
ATOM	28389	C2	C	A1344	225.913	131.823	-14.445	1.00	77.95	A16S
ATOM	28390	O2	C	A1344	226.860	132.614	-14.549	1.00	77.95	A16S
ATOM	28391	N3	C	A1344	225.647	130.909	-15.397	1.00	77.95	A16S
ATOM	28392	C4	C	A1344	224.644	130.054	-15.231	1.00	77.95	A16S
ATOM	28393	N4	C	A1344	224.413	129.186	-16.200	1.00	77.95	A16S
ATOM	28394	C5	C	A1344	223.830	130.056	-14.060	1.00	77.95	A16S
ATOM	28395	C2*	C	A1344	224.569	134.203	-12.621	1.00	45.80	A16S
ATOM	28396	O2*	C	A1344	225.425	135.315	-12.478	1.00	45.80	A16S
ATOM	28397	C3*	C	A1344	223.423	134.105	-11.611	1.00	45.80	A16S
ATOM	28398	O3*	C	A1344	222.889	135.371	-11.229	1.00	45.80	A16S
ATOM	28399	P	U	A1345	221.924	136.176	-12.238	1.00	56.83	A16S
ATOM	28400	O1P	U	A1345	221.505	137.441	-11.563	1.00	64.04	A16S
ATOM	28401	O2P	U	A1345	220.889	135.266	-12.786	1.00	64.04	A16S
ATOM	28402	O5*	U	A1345	222.882	136.569	-13.439	1.00	56.83	A16S
ATOM	28403	C5*	U	A1345	223.740	137.685	-13.327	1.00	56.83	A16S
ATOM	28404	C4*	U	A1345	223.336	138.719	-14.324	1.00	56.83	A16S
ATOM	28405	O4*	U	A1345	223.514	138.142	-15.643	1.00	56.83	A16S
ATOM	28406	C1*	U	A1345	222.357	138.371	-16.399	1.00	56.83	A16S



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ATOM	28407	N1	U	A1345	222.271	137.380	-17.484	1.00	64.04	A16S
ATOM	28408	C6	U	A1345	221.461	136.268	-17.417	1.00	64.04	A16S
ATOM	28409	C2	U	A1345	223.022	137.636	-18.610	1.00	64.04	A16S
ATOM	28410	O2	U	A1345	223.794	138.573	-18.689	1.00	64.04	A16S
ATOM	28411	N3	U	A1345	222.840	136.754	-19.642	1.00	64.04	A16S
ATOM	28412	C4	U	A1345	222.018	135.652	-19.660	1.00	64.04	A16S
ATOM	28413	O4	U	A1345	221.878	135.026	-20.708	1.00	64.04	A16S
ATOM	28414	C5	U	A1345	221.312	135.419	-18.440	1.00	64.04	A16S
ATOM	28415	C2*	U	A1345	221.209	138.470	-15.396	1.00	56.83	A16S
ATOM	28416	O2*	U	A1345	220.142	139.201	-15.980	1.00	56.83	A16S
ATOM	28417	C3*	U	A1345	221.886	139.213	-14.242	1.00	56.83	A16S
ATOM	28418	O3*	U	A1345	221.826	140.619	-14.523	1.00	56.83	A16S
ATOM	28419	P	A	A1346	221.847	141.687	-13.321	1.00	60.69	A16S
ATOM	28420	O1P	A	A1346	221.179	141.072	-12.147	1.00	65.08	A16S
ATOM	28421	O2P	A	A1346	221.327	142.953	-13.886	1.00	65.08	A16S
ATOM	28422	O5*	A	A1346	223.401	141.870	-13.010	1.00	60.69	A16S
ATOM	28423	C5*	A	A1346	223.898	142.025	-11.662	1.00	60.69	A16S
ATOM	28424	C4*	A	A1346	224.966	143.090	-11.632	1.00	60.69	A16S
ATOM	28425	O4*	A	A1346	226.197	142.594	-12.236	1.00	60.69	A16S
ATOM	28426	C1*	A	A1346	226.675	143.527	-13.197	1.00	60.69	A16S
ATOM	28427	N9	A	A1346	227.351	142.787	-14.272	1.00	65.08	A16S
ATOM	28428	C4	A	A1346	228.460	143.199	-14.979	1.00	65.08	A16S
ATOM	28429	N3	A	A1346	229.143	144.345	-14.832	1.00	65.08	A16S
ATOM	28430	C2	A	A1346	230.146	144.417	-15.704	1.00	65.08	A16S
ATOM	28431	N1	A	A1346	230.522	143.539	-16.633	1.00	65.08	A16S
ATOM	28432	C6	A	A1346	229.827	142.388	-16.749	1.00	65.08	A16S
ATOM	28433	N6	A	A1346	230.226	141.500	-17.667	1.00	65.08	A16S
ATOM	28434	C5	A	A1346	228.727	142.196	-15.886	1.00	65.08	A16S
ATOM	28435	N7	A	A1346	227.812	141.167	-15.756	1.00	65.08	A16S
ATOM	28436	C8	A	A1346	227.023	141.563	-14.787	1.00	65.08	A16S
ATOM	28437	C2*	A	A1346	225.448	144.316	-13.665	1.00	60.69	A16S
ATOM	28438	O2*	A	A1346	225.712	145.597	-14.201	1.00	60.69	A16S
ATOM	28439	C3*	A	A1346	224.594	144.346	-12.408	1.00	60.69	A16S
ATOM	28440	O3*	A	A1346	224.160	145.543	-11.715	1.00	60.69	A16S
ATOM	28441	P	G	A1347	225.180	146.423	-10.829	1.00	67.25	A16S
ATOM	28442	O1P	G	A1347	224.491	147.736	-10.706	1.00	90.60	A16S
ATOM	28443	O2P	G	A1347	226.553	146.367	-11.409	1.00	90.60	A16S
ATOM	28444	O5*	G	A1347	225.148	145.695	-9.397	1.00	67.25	A16S
ATOM	28445	C5*	G	A1347	226.173	145.914	-8.362	1.00	67.25	A16S
ATOM	28446	C4*	G	A1347	227.378	145.043	-8.643	1.00	67.25	A16S
ATOM	28447	O4*	G	A1347	228.218	145.779	-9.555	1.00	67.25	A16S
ATOM	28448	C1*	G	A1347	229.505	145.227	-9.519	1.00	67.25	A16S
ATOM	28449	N9	G	A1347	230.505	146.271	-9.664	1.00	90.60	A16S
ATOM	28450	C4	G	A1347	231.488	146.278	-10.610	1.00	90.60	A16S
ATOM	28451	N3	G	A1347	231.721	145.301	-11.508	1.00	90.60	A16S
ATOM	28452	C2	G	A1347	232.710	145.605	-12.322	1.00	90.60	A16S
ATOM	28453	N2	G	A1347	233.085	144.739	-13.275	1.00	90.60	A16S
ATOM	28454	N1	G	A1347	233.407	146.778	-12.264	1.00	90.60	A16S
ATOM	28455	C6	G	A1347	233.178	147.800	-11.352	1.00	90.60	A16S
ATOM	28456	O6	G	A1347	233.847	148.834	-11.413	1.00	90.60	A16S
ATOM	28457	C5	G	A1347	232.134	147.475	-10.457	1.00	90.60	A16S
ATOM	28458	N7	G	A1347	231.597	148.191	-9.399	1.00	90.60	A16S
ATOM	28459	C8	G	A1347	230.638	147.431	-8.951	1.00	90.60	A16S
ATOM	28460	C2*	G	A1347	229.613	144.292	-8.324	1.00	67.25	A16S
ATOM	28461	O2*	G	A1347	229.538	142.990	-8.873	1.00	67.25	A16S
ATOM	28462	C3*	G	A1347	228.352	144.623	-7.535	1.00	67.25	A16S
ATOM	28463	O3*	G	A1347	227.828	143.493	-6.792	1.00	67.25	A16S
ATOM	28464	P	U	A1348	228.698	142.122	-6.560	1.00	60.36	A16S
ATOM	28465	O1P	U	A1348	228.263	141.578	-5.232	1.00	66.52	A16S
ATOM	28466	O2P	U	A1348	230.152	142.282	-6.815	1.00	66.52	A16S
ATOM	28467	O5*	U	A1348	228.116	141.115	-7.660	1.00	60.36	A16S
ATOM	28468	C5*	U	A1348	226.750	140.623	-7.545	1.00	60.36	A16S
ATOM	28469	C4*	U	A1348	226.423	139.649	-8.652	1.00	60.36	A16S
ATOM	28470	O4*	U	A1348	226.382	140.338	-9.920	1.00	60.36	A16S
ATOM	28471	C1*	U	A1348	226.885	139.488	-10.929	1.00	60.36	A16S
ATOM	28472	N1	U	A1348	227.992	140.183	-11.601	1.00	66.52	A16S
ATOM	28473	C6	U	A1348	228.503	141.355	-11.108	1.00	66.52	A16S
ATOM	28474	C2	U	A1348	228.496	139.627	-12.750	1.00	66.52	A16S
ATOM	28475	O2	U	A1348	228.102	138.580	-13.204	1.00	66.52	A16S
ATOM	28476	N3	U	A1348	229.492	140.342	-13.346	1.00	66.52	A16S
ATOM	28477	C4	U	A1348	230.031	141.515	-12.917	1.00	66.52	A16S
ATOM	28478	O4	U	A1348	230.862	142.076	-13.615	1.00	66.52	A16S
ATOM	28479	C5	U	A1348	229.480	142.018	-11.711	1.00	66.52	A16S
ATOM	28480	C2*	U	A1348	227.253	138.140	-10.295	1.00	60.36	A16S
ATOM	28481	O2*	U	A1348	226.197	137.232	-10.482	1.00	60.36	A16S
ATOM	28482	C3*	U	A1348	227.404	138.504	-8.827	1.00	60.36	A16S
ATOM	28483	O3*	U	A1348	226.992	137.425	-8.000	1.00	60.36	A16S



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ATOM	28484	P	A	A1349	228.089	136.462	-7.338	1.00	57.71	A16S
ATOM	28485	O1P	A	A1349	227.386	135.431	-6.518	1.00	66.92	A16S
ATOM	28486	O2P	A	A1349	229.099	137.335	-6.696	1.00	66.92	A16S
ATOM	28487	O5*	A	A1349	228.754	135.732	-8.588	1.00	57.71	A16S
ATOM	28488	C5*	A	A1349	228.038	134.703	-9.276	1.00	57.71	A16S
ATOM	28489	C4*	A	A1349	228.754	134.295	-10.536	1.00	57.71	A16S
ATOM	28490	O4*	A	A1349	228.831	135.421	-11.443	1.00	57.71	A16S
ATOM	28491	C1*	A	A1349	230.020	135.320	-12.214	1.00	57.71	A16S
ATOM	28492	N9	A	A1349	230.827	136.534	-12.021	1.00	66.92	A16S
ATOM	28493	C4	A	A1349	232.043	136.785	-12.612	1.00	66.92	A16S
ATOM	28494	N3	A	A1349	232.718	135.986	-13.453	1.00	66.92	A16S
ATOM	28495	C2	A	A1349	233.846	136.560	-13.835	1.00	66.92	A16S
ATOM	28496	N1	A	A1349	234.348	137.750	-13.493	1.00	66.92	A16S
ATOM	28497	C6	A	A1349	233.654	138.524	-12.639	1.00	66.92	A16S
ATOM	28498	N6	A	A1349	234.173	139.701	-12.283	1.00	66.92	A16S
ATOM	28499	C5	A	A1349	232.428	138.035	-12.170	1.00	66.92	A16S
ATOM	28500	N7	A	A1349	231.474	138.569	-11.316	1.00	66.92	A16S
ATOM	28501	C8	A	A1349	230.551	137.640	-11.254	1.00	66.92	A16S
ATOM	28502	C2*	A	A1349	230.744	134.039	-11.793	1.00	57.71	A16S
ATOM	28503	O2*	A	A1349	230.373	133.008	-12.683	1.00	57.71	A16S
ATOM	28504	C3*	A	A1349	230.187	133.811	-10.395	1.00	57.71	A16S
ATOM	28505	O3*	A	A1349	230.254	132.437	-10.049	1.00	57.71	A16S
ATOM	28506	P	A	A1350	231.409	131.938	-9.063	1.00	61.37	A16S
ATOM	28507	O1P	A	A1350	231.361	130.462	-8.907	1.00	62.32	A16S
ATOM	28508	O2P	A	A1350	231.311	132.798	-7.868	1.00	62.32	A16S
ATOM	28509	O5*	A	A1350	232.746	132.354	-9.815	1.00	61.37	A16S
ATOM	28510	C5*	A	A1350	233.131	131.751	-11.065	1.00	61.37	A16S
ATOM	28511	C4*	A	A1350	234.429	132.361	-11.562	1.00	61.37	A16S
ATOM	28512	O4*	A	A1350	234.188	133.708	-12.051	1.00	61.37	A16S
ATOM	28513	C1*	A	A1350	235.247	134.565	-11.648	1.00	61.37	A16S
ATOM	28514	N9	A	A1350	234.694	135.525	-10.690	1.00	62.32	A16S
ATOM	28515	C4	A	A1350	235.244	136.715	-10.278	1.00	62.32	A16S
ATOM	28516	N3	A	A1350	236.395	137.266	-10.687	1.00	62.32	A16S
ATOM	28517	C2	A	A1350	236.606	138.421	-10.066	1.00	62.32	A16S
ATOM	28518	N1	A	A1350	235.860	139.037	-9.142	1.00	62.32	A16S
ATOM	28519	C6	A	A1350	234.716	138.453	-8.742	1.00	62.32	A16S
ATOM	28520	N6	A	A1350	233.985	139.057	-7.796	1.00	62.32	A16S
ATOM	28521	C5	A	A1350	234.368	137.230	-9.340	1.00	62.32	A16S
ATOM	28522	N7	A	A1350	233.275	136.390	-9.175	1.00	62.32	A16S
ATOM	28523	C8	A	A1350	233.513	135.400	-9.996	1.00	62.32	A16S
ATOM	28524	C2*	A	A1350	236.329	133.683	-11.021	1.00	61.37	A16S
ATOM	28525	O2*	A	A1350	237.239	133.262	-12.019	1.00	61.37	A16S
ATOM	28526	C3*	A	A1350	235.507	132.516	-10.502	1.00	61.37	A16S
ATOM	28527	O3*	A	A1350	236.280	131.343	-10.361	1.00	61.37	A16S
ATOM	28528	P	U	A1351	236.797	130.922	-8.904	1.00	60.59	A16S
ATOM	28529	O1P	U	A1351	237.426	129.569	-8.996	1.00	75.82	A16S
ATOM	28530	O2P	U	A1351	235.675	131.146	-7.957	1.00	75.82	A16S
ATOM	28531	O5*	U	A1351	237.896	132.027	-8.556	1.00	60.59	A16S
ATOM	28532	C5*	U	A1351	239.099	132.171	-9.344	1.00	60.59	A16S
ATOM	28533	C4*	U	A1351	239.832	133.447	-8.976	1.00	60.59	A16S
ATOM	28534	O4*	U	A1351	239.014	134.586	-9.346	1.00	60.59	A16S
ATOM	28535	C1*	U	A1351	239.157	135.609	-8.377	1.00	60.59	A16S
ATOM	28536	N1	U	A1351	237.850	135.834	-7.725	1.00	75.82	A16S
ATOM	28537	C6	U	A1351	236.868	134.868	-7.708	1.00	75.82	A16S
ATOM	28538	C2	U	A1351	237.632	137.056	-7.125	1.00	75.82	A16S
ATOM	28539	O2	U	A1351	238.462	137.935	-7.102	1.00	75.82	A16S
ATOM	28540	N3	U	A1351	236.405	137.213	-6.543	1.00	75.82	A16S
ATOM	28541	C4	U	A1351	235.394	136.299	-6.484	1.00	75.82	A16S
ATOM	28542	O4	U	A1351	234.352	136.594	-5.897	1.00	75.82	A16S
ATOM	28543	C5	U	A1351	235.682	135.054	-7.123	1.00	75.82	A16S
ATOM	28544	C2*	U	A1351	240.260	135.169	-7.412	1.00	60.59	A16S
ATOM	28545	O2*	U	A1351	241.502	135.620	-7.921	1.00	60.59	A16S
ATOM	28546	C3*	U	A1351	240.161	133.656	-7.502	1.00	60.59	A16S
ATOM	28547	O3*	U	A1351	241.395	133.046	-7.142	1.00	60.59	A16S
ATOM	28548	P	C	A1352	241.632	132.530	-5.630	1.00	74.52	A16S
ATOM	28549	O1P	C	A1352	242.855	131.667	-5.657	1.00	93.83	A16S
ATOM	28550	O2P	C	A1352	240.365	131.973	-5.094	1.00	93.83	A16S
ATOM	28551	O5*	C	A1352	241.934	133.872	-4.823	1.00	74.52	A16S
ATOM	28552	C5*	C	A1352	243.133	134.631	-5.082	1.00	74.52	A16S
ATOM	28553	C4*	C	A1352	243.232	135.815	-4.147	1.00	74.52	A16S
ATOM	28554	O4*	C	A1352	242.280	136.842	-4.543	1.00	74.52	A16S
ATOM	28555	C1*	C	A1352	241.799	137.507	-3.385	1.00	74.52	A16S
ATOM	28556	N1	C	A1352	240.332	137.352	-3.305	1.00	93.83	A16S
ATOM	28557	C6	C	A1352	239.708	136.233	-3.792	1.00	93.83	A16S
ATOM	28558	C2	C	A1352	239.581	138.373	-2.711	1.00	93.83	A16S
ATOM	28559	O2	C	A1352	240.169	139.358	-2.251	1.00	93.83	A16S
ATOM	28560	N3	C	A1352	238.236	138.251	-2.643	1.00	93.83	A16S



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ATOM	28561	C4	C	A1352	237.637	137.156	-3.123	1.00	93.83	A16S
ATOM	28562	N4	C	A1352	236.303	137.077	-3.033	1.00	93.83	A16S
ATOM	28563	C5	C	A1352	238.378	136.093	-3.718	1.00	93.83	A16S
ATOM	28564	C2*	C	A1352	242.518	136.916	-2.167	1.00	74.52	A16S
ATOM	28565	O2*	C	A1352	243.612	137.745	-1.859	1.00	74.52	A16S
ATOM	28566	C3*	C	A1352	242.948	135.540	-2.673	1.00	74.52	A16S
ATOM	28567	O3*	C	A1352	244.102	135.038	-1.976	1.00	74.52	A16S
ATOM	28568	P	G	A1353	243.930	133.905	-0.831	1.00	65.33	A16S
ATOM	28569	O1P	G	A1353	245.234	133.199	-0.700	1.00	89.18	A16S
ATOM	28570	O2P	G	A1353	242.698	133.124	-1.106	1.00	89.18	A16S
ATOM	28571	O5*	G	A1353	243.704	134.722	0.516	1.00	65.33	A16S
ATOM	28572	C5*	G	A1353	244.766	135.518	1.067	1.00	65.33	A16S
ATOM	28573	C4*	G	A1353	244.233	136.820	1.631	1.00	65.33	A16S
ATOM	28574	O4*	G	A1353	243.322	137.434	0.686	1.00	65.33	A16S
ATOM	28575	C1*	G	A1353	242.326	138.161	1.379	1.00	65.33	A16S
ATOM	28576	N9	G	A1353	241.017	137.629	1.007	1.00	89.18	A16S
ATOM	28577	C4	G	A1353	239.798	138.213	1.251	1.00	89.18	A16S
ATOM	28578	N3	G	A1353	239.594	139.393	1.866	1.00	89.18	A16S
ATOM	28579	C2	G	A1353	238.311	139.675	1.978	1.00	89.18	A16S
ATOM	28580	N2	G	A1353	237.925	140.811	2.563	1.00	89.18	A16S
ATOM	28581	N1	G	A1353	237.311	138.868	1.524	1.00	89.18	A16S
ATOM	28582	C6	G	A1353	237.497	137.654	0.882	1.00	89.18	A16S
ATOM	28583	O6	G	A1353	236.521	137.008	0.503	1.00	89.18	A16S
ATOM	28584	C5	G	A1353	238.867	137.335	0.757	1.00	89.18	A16S
ATOM	28585	N7	G	A1353	239.482	136.225	0.197	1.00	89.18	A16S
ATOM	28586	C8	G	A1353	240.755	136.444	0.365	1.00	89.18	A16S
ATOM	28587	C2*	G	A1353	242.622	138.027	2.874	1.00	65.33	A16S
ATOM	28588	O2*	G	A1353	243.392	139.136	3.286	1.00	65.33	A16S
ATOM	28589	C3*	G	A1353	243.447	136.752	2.922	1.00	65.33	A16S
ATOM	28590	O3*	G	A1353	244.337	136.815	4.011	1.00	65.33	A16S
ATOM	28591	P	C	A1354	243.826	136.401	5.465	1.00	58.77	A16S
ATOM	28592	O1P	C	A1354	244.992	136.477	6.392	1.00	92.02	A16S
ATOM	28593	O2P	C	A1354	243.117	135.112	5.294	1.00	92.02	A16S
ATOM	28594	O5*	C	A1354	242.737	137.523	5.826	1.00	58.77	A16S
ATOM	28595	C5*	C	A1354	243.136	138.863	6.212	1.00	58.77	A16S
ATOM	28596	C4*	C	A1354	241.966	139.652	6.786	1.00	58.77	A16S
ATOM	28597	O4*	C	A1354	241.090	140.133	5.728	1.00	58.77	A16S
ATOM	28598	C1*	C	A1354	239.745	140.145	6.197	1.00	58.77	A16S
ATOM	28599	N1	C	A1354	238.982	139.120	5.452	1.00	92.02	A16S
ATOM	28600	C6	C	A1354	239.633	138.136	4.761	1.00	92.02	A16S
ATOM	28601	C2	C	A1354	237.571	139.145	5.483	1.00	92.02	A16S
ATOM	28602	O2	C	A1354	236.990	140.047	6.106	1.00	92.02	A16S
ATOM	28603	N3	C	A1354	236.886	138.179	4.836	1.00	92.02	A16S
ATOM	28604	C4	C	A1354	237.542	137.218	4.182	1.00	92.02	A16S
ATOM	28605	N4	C	A1354	236.829	136.279	3.572	1.00	92.02	A16S
ATOM	28606	C5	C	A1354	238.959	137.176	4.126	1.00	92.02	A16S
ATOM	28607	C2*	C	A1354	239.770	139.760	7.679	1.00	58.77	A16S
ATOM	28608	O2*	C	A1354	239.788	140.920	8.480	1.00	58.77	A16S
ATOM	28609	C3*	C	A1354	241.046	138.932	7.762	1.00	58.77	A16S
ATOM	28610	O3*	C	A1354	241.553	138.874	9.083	1.00	58.77	A16S
ATOM	28611	P	G	A1355	241.025	137.734	10.088	1.00	63.63	A16S
ATOM	28612	O1P	G	A1355	241.907	137.672	11.286	1.00	104.48	A16S
ATOM	28613	O2P	G	A1355	240.823	136.511	9.282	1.00	104.48	A16S
ATOM	28614	O5*	G	A1355	239.597	138.277	10.550	1.00	63.63	A16S
ATOM	28615	C5*	G	A1355	239.470	139.561	11.219	1.00	63.63	A16S
ATOM	28616	C4*	G	A1355	238.028	139.833	11.606	1.00	63.63	A16S
ATOM	28617	O4*	G	A1355	237.222	139.940	10.401	1.00	63.63	A16S
ATOM	28618	C1*	G	A1355	235.937	139.378	10.631	1.00	63.63	A16S
ATOM	28619	N9	G	A1355	235.787	138.202	9.768	1.00	104.48	A16S
ATOM	28620	C4	G	A1355	234.639	137.447	9.565	1.00	104.48	A16S
ATOM	28621	N3	G	A1355	233.417	137.685	10.092	1.00	104.48	A16S
ATOM	28622	C2	G	A1355	232.536	136.758	9.739	1.00	104.48	A16S
ATOM	28623	N2	G	A1355	231.274	136.830	10.171	1.00	104.48	A16S
ATOM	28624	N1	G	A1355	232.826	135.691	8.937	1.00	104.48	A16S
ATOM	28625	C6	G	A1355	234.068	135.426	8.382	1.00	104.48	A16S
ATOM	28626	O6	G	A1355	234.218	134.430	7.677	1.00	104.48	A16S
ATOM	28627	C5	G	A1355	235.027	136.410	8.745	1.00	104.48	A16S
ATOM	28628	N7	G	A1355	236.370	136.522	8.408	1.00	104.48	A16S
ATOM	28629	C8	G	A1355	236.775	137.598	9.026	1.00	104.48	A16S
ATOM	28630	C2*	G	A1355	235.867	139.012	12.118	1.00	63.63	A16S
ATOM	28631	O2*	G	A1355	235.351	140.103	12.854	1.00	63.63	A16S
ATOM	28632	C3*	G	A1355	237.331	138.769	12.448	1.00	63.63	A16S
ATOM	28633	O3*	G	A1355	237.583	138.904	13.845	1.00	63.63	A16S
ATOM	28634	P	G	A1356	237.362	137.640	14.823	1.00	75.43	A16S
ATOM	28635	O1P	G	A1356	237.744	138.031	16.196	1.00	98.58	A16S
ATOM	28636	O2P	G	A1356	237.986	136.450	14.207	1.00	98.58	A16S
ATOM	28637	O5*	G	A1356	235.786	137.430	14.826	1.00	75.43	A16S



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ATOM	28638	C5*	G	A1356	234.900	138.508	15.199	1.00	75.43	A16S
ATOM	28639	C4*	G	A1356	233.460	138.060	15.111	1.00	75.43	A16S
ATOM	28640	O4*	G	A1356	233.115	137.769	13.730	1.00	75.43	A16S
ATOM	28641	C1*	G	A1356	232.252	136.640	13.678	1.00	75.43	A16S
ATOM	28642	N9	G	A1356	232.921	135.575	12.923	1.00	98.58	A16S
ATOM	28643	C4	G	A1356	232.323	134.542	12.218	1.00	98.58	A16S
ATOM	28644	N3	G	A1356	230.996	134.326	12.083	1.00	98.58	A16S
ATOM	28645	C2	G	A1356	230.743	133.245	11.362	1.00	98.58	A16S
ATOM	28646	N2	G	A1356	229.480	132.876	11.127	1.00	98.58	A16S
ATOM	28647	N1	G	A1356	231.708	132.446	10.818	1.00	98.58	A16S
ATOM	28648	C6	G	A1356	233.075	132.646	10.943	1.00	98.58	A16S
ATOM	28649	O6	G	A1356	233.861	131.856	10.419	1.00	98.58	A16S
ATOM	28650	C5	G	A1356	233.366	133.798	11.709	1.00	98.58	A16S
ATOM	28651	N7	G	A1356	234.588	134.347	12.071	1.00	98.58	A16S
ATOM	28652	C8	G	A1356	234.278	135.395	12.785	1.00	98.58	A16S
ATOM	28653	C2*	G	A1356	231.944	136.235	15.124	1.00	75.43	A16S
ATOM	28654	O2*	G	A1356	230.744	136.844	15.552	1.00	75.43	A16S
ATOM	28655	C3*	G	A1356	233.153	136.781	15.865	1.00	75.43	A16S
ATOM	28656	O3*	G	A1356	232.875	137.032	17.224	1.00	75.43	A16S
ATOM	28657	P	A	A1357	233.076	135.860	18.298	1.00	72.47	A16S
ATOM	28658	O1P	A	A1357	233.047	136.503	19.635	1.00	87.49	A16S
ATOM	28659	O2P	A	A1357	234.231	135.015	17.913	1.00	87.49	A16S
ATOM	28660	O5*	A	A1357	231.763	134.978	18.154	1.00	72.47	A16S
ATOM	28661	C5*	A	A1357	230.471	135.545	18.423	1.00	72.47	A16S
ATOM	28662	C4*	A	A1357	229.391	134.640	17.898	1.00	72.47	A16S
ATOM	28663	O4*	A	A1357	229.585	134.474	16.476	1.00	72.47	A16S
ATOM	28664	C1*	A	A1357	229.289	133.143	16.109	1.00	72.47	A16S
ATOM	28665	N9	A	A1357	230.450	132.589	15.394	1.00	87.49	A16S
ATOM	28666	C4	A	A1357	230.466	131.457	14.613	1.00	87.49	A16S
ATOM	28667	N3	A	A1357	229.450	130.609	14.380	1.00	87.49	A16S
ATOM	28668	C2	A	A1357	229.834	129.627	13.572	1.00	87.49	A16S
ATOM	28669	N1	A	A1357	231.024	129.414	13.008	1.00	87.49	A16S
ATOM	28670	C6	A	A1357	232.019	130.287	13.254	1.00	87.49	A16S
ATOM	28671	N6	A	A1357	233.199	130.081	12.676	1.00	87.49	A16S
ATOM	28672	C5	A	A1357	231.746	131.368	14.104	1.00	87.49	A16S
ATOM	28673	N7	A	A1357	232.533	132.408	14.569	1.00	87.49	A16S
ATOM	28674	C8	A	A1357	231.724	133.097	15.332	1.00	87.49	A16S
ATOM	28675	C2*	A	A1357	228.813	132.394	17.363	1.00	72.47	A16S
ATOM	28676	O2*	A	A1357	227.397	132.402	17.413	1.00	72.47	A16S
ATOM	28677	C3*	A	A1357	229.408	133.238	18.482	1.00	72.47	A16S
ATOM	28678	O3*	A	A1357	228.565	133.212	19.625	1.00	72.47	A16S
ATOM	28679	P	U	A1358	229.190	132.963	21.081	1.00	76.42	A16S
ATOM	28680	O1P	U	A1358	228.149	133.405	22.059	1.00	75.90	A16S
ATOM	28681	O2P	U	A1358	230.552	133.570	21.118	1.00	75.90	A16S
ATOM	28682	O5*	U	A1358	229.345	131.383	21.179	1.00	76.42	A16S
ATOM	28683	C5*	U	A1358	228.220	130.523	20.955	1.00	76.42	A16S
ATOM	28684	C4*	U	A1358	228.678	129.230	20.338	1.00	76.42	A16S
ATOM	28685	O4*	U	A1358	229.254	129.479	19.042	1.00	76.42	A16S
ATOM	28686	C1*	U	A1358	230.096	128.391	18.725	1.00	76.42	A16S
ATOM	28687	N1	U	A1358	231.192	128.824	17.846	1.00	75.90	A16S
ATOM	28688	C6	U	A1358	231.740	130.075	17.929	1.00	75.90	A16S
ATOM	28689	C2	U	A1358	231.663	127.901	16.923	1.00	75.90	A16S
ATOM	28690	O2	U	A1358	231.194	126.786	16.792	1.00	75.90	A16S
ATOM	28691	N3	U	A1358	232.705	128.328	16.156	1.00	75.90	A16S
ATOM	28692	C4	U	A1358	233.307	129.550	16.203	1.00	75.90	A16S
ATOM	28693	O4	U	A1358	234.271	129.760	15.481	1.00	75.90	A16S
ATOM	28694	C5	U	A1358	232.755	130.462	17.157	1.00	75.90	A16S
ATOM	28695	C2*	U	A1358	230.516	127.707	20.034	1.00	76.42	A16S
ATOM	28696	O2*	U	A1358	230.157	126.339	20.056	1.00	76.42	A16S
ATOM	28697	C3*	U	A1358	229.795	128.535	21.095	1.00	76.42	A16S
ATOM	28698	O3*	U	A1358	229.226	127.667	22.054	1.00	76.42	A16S
ATOM	28699	P	C	A1359	229.842	127.609	23.527	1.00	86.99	A16S
ATOM	28700	O1P	C	A1359	229.297	126.388	24.214	1.00	63.32	A16S
ATOM	28701	O2P	C	A1359	229.588	128.959	24.101	1.00	63.32	A16S
ATOM	28702	O5*	C	A1359	231.408	127.431	23.277	1.00	86.99	A16S
ATOM	28703	C5*	C	A1359	231.990	126.129	23.045	1.00	86.99	A16S
ATOM	28704	O4*	C	A1359	233.459	126.266	22.709	1.00	86.99	A16S
ATOM	28705	C4*	C	A1359	233.582	127.021	21.482	1.00	86.99	A16S
ATOM	28706	C1*	C	A1359	234.727	127.846	21.532	1.00	86.99	A16S
ATOM	28707	N1	C	A1359	234.295	129.241	21.368	1.00	63.32	A16S
ATOM	28708	C6	C	A1359	233.033	129.636	21.726	1.00	63.32	A16S
ATOM	28709	C2	C	A1359	235.185	130.157	20.805	1.00	63.32	A16S
ATOM	28710	O2	C	A1359	236.339	129.786	20.533	1.00	63.32	A16S
ATOM	28711	N3	C	A1359	234.768	131.427	20.566	1.00	63.32	A16S
ATOM	28712	C4	C	A1359	233.516	131.791	20.874	1.00	63.32	A16S
ATOM	28713	N4	C	A1359	233.126	133.040	20.562	1.00	63.32	A16S
ATOM	28714	C5	C	A1359	232.603	130.887	21.498	1.00	63.32	A16S



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ATOM	28715	C2*	C	A1359	235.453	127.555	22.838	1.00	86.99	A16S
ATOM	28716	O2*	C	A1359	236.428	126.566	22.577	1.00	86.99	A16S
ATOM	28717	C3*	C	A1359	234.317	127.032	23.705	1.00	86.99	A16S
ATOM	28718	O3*	C	A1359	234.786	126.193	24.754	1.00	86.99	A16S
ATOM	28719	P	A	A1360	235.314	126.852	26.131	1.00	76.51	A16S
ATOM	28720	O1P	A	A1360	234.489	128.068	26.437	1.00	79.21	A16S
ATOM	28721	O2P	A	A1360	235.410	125.743	27.136	1.00	79.21	A16S
ATOM	28722	O5*	A	A1360	236.782	127.351	25.762	1.00	76.51	A16S
ATOM	28723	C5*	A	A1360	237.610	128.001	26.736	1.00	76.51	A16S
ATOM	28724	C4*	A	A1360	238.963	127.333	26.796	1.00	76.51	A16S
ATOM	28725	O4*	A	A1360	238.870	126.045	27.445	1.00	76.51	A16S
ATOM	28726	C1*	A	A1360	239.805	125.157	26.867	1.00	76.51	A16S
ATOM	28727	N9	A	A1360	239.111	123.909	26.541	1.00	79.21	A16S
ATOM	28728	C4	A	A1360	239.675	122.683	26.267	1.00	79.21	A16S
ATOM	28729	N3	A	A1360	240.982	122.384	26.170	1.00	79.21	A16S
ATOM	28730	C2	A	A1360	241.154	121.078	25.939	1.00	79.21	A16S
ATOM	28731	N1	A	A1360	240.237	120.108	25.808	1.00	79.21	A16S
ATOM	28732	C6	A	A1360	238.930	120.440	25.908	1.00	79.21	A16S
ATOM	28733	N6	A	A1360	238.007	119.471	25.786	1.00	79.21	A16S
ATOM	28734	C5	A	A1360	238.615	121.799	26.144	1.00	79.21	A16S
ATOM	28735	N7	A	A1360	237.404	122.464	26.290	1.00	79.21	A16S
ATOM	28736	C8	A	A1360	237.752	123.708	26.510	1.00	79.21	A16S
ATOM	28737	C2*	A	A1360	240.532	125.889	25.738	1.00	76.51	A16S
ATOM	28738	O2*	A	A1360	241.769	126.344	26.236	1.00	76.51	A16S
ATOM	28739	C3*	A	A1360	239.588	127.049	25.448	1.00	76.51	A16S
ATOM	28740	O3*	A	A1360	240.275	128.210	25.018	1.00	76.51	A16S
ATOM	28741	P	G	A1361	240.233	128.617	23.474	1.00	73.36	A16S
ATOM	28742	O1P	G	A1361	241.165	129.760	23.248	1.00	73.15	A16S
ATOM	28743	O2P	G	A1361	238.800	128.767	23.117	1.00	73.15	A16S
ATOM	28744	O5*	G	A1361	240.842	127.314	22.782	1.00	73.36	A16S
ATOM	28745	C5*	G	A1361	242.217	126.941	23.037	1.00	73.36	A16S
ATOM	28746	C4*	G	A1361	242.504	125.532	22.565	1.00	73.36	A16S
ATOM	28747	O4*	G	A1361	241.865	124.564	23.424	1.00	73.36	A16S
ATOM	28748	C1*	G	A1361	241.483	123.440	22.660	1.00	73.36	A16S
ATOM	28749	N9	G	A1361	240.041	123.298	22.779	1.00	73.15	A16S
ATOM	28750	C4	G	A1361	239.344	122.131	22.673	1.00	73.15	A16S
ATOM	28751	N3	G	A1361	239.879	120.916	22.460	1.00	73.15	A16S
ATOM	28752	C2	G	A1361	238.958	119.978	22.412	1.00	73.15	A16S
ATOM	28753	N2	G	A1361	239.315	118.702	22.233	1.00	73.15	A16S
ATOM	28754	N1	G	A1361	237.615	120.217	22.544	1.00	73.15	A16S
ATOM	28755	C6	G	A1361	237.042	121.465	22.752	1.00	73.15	A16S
ATOM	28756	O6	G	A1361	235.813	121.571	22.841	1.00	73.15	A16S
ATOM	28757	C5	G	A1361	238.023	122.479	22.825	1.00	73.15	A16S
ATOM	28758	N7	G	A1361	237.892	123.845	23.032	1.00	73.15	A16S
ATOM	28759	C8	G	A1361	239.116	124.290	23.001	1.00	73.15	A16S
ATOM	28760	C2*	G	A1361	241.917	123.668	21.208	1.00	73.36	A16S
ATOM	28761	O2*	G	A1361	243.116	122.968	20.928	1.00	73.36	A16S
ATOM	28762	C3*	G	A1361	242.051	125.184	21.162	1.00	73.36	A16S
ATOM	28763	O3*	G	A1361	243.009	125.617	20.220	1.00	73.36	A16S
ATOM	28764	P	C	A1361A	242.517	126.361	18.900	1.00	78.77	A16S
ATOM	28765	O1P	C	A1361A	243.713	126.886	18.195	1.00	79.17	A16S
ATOM	28766	O2P	C	A1361A	241.427	127.290	19.285	1.00	79.17	A16S
ATOM	28767	O5*	C	A1361A	241.891	125.168	18.051	1.00	78.77	A16S
ATOM	28768	C5*	C	A1361A	242.716	124.069	17.621	1.00	78.77	A16S
ATOM	28769	C4*	C	A1361A	241.868	122.919	17.111	1.00	78.77	A16S
ATOM	28770	O4*	C	A1361A	241.169	122.267	18.207	1.00	78.77	A16S
ATOM	28771	C1*	C	A1361A	239.928	121.764	17.744	1.00	78.77	A16S
ATOM	28772	N1	C	A1361A	238.843	122.421	18.502	1.00	79.17	A16S
ATOM	28773	C6	C	A1361A	238.981	123.706	18.946	1.00	79.17	A16S
ATOM	28774	C2	C	A1361A	237.655	121.710	18.756	1.00	79.17	A16S
ATOM	28775	O2	C	A1361A	237.543	120.541	18.343	1.00	79.17	A16S
ATOM	28776	N3	C	A1361A	236.655	122.318	19.443	1.00	79.17	A16S
ATOM	28777	C4	C	A1361A	236.804	123.574	19.872	1.00	79.17	A16S
ATOM	28778	N4	C	A1361A	235.795	124.130	20.556	1.00	79.17	A16S
ATOM	28779	C5	C	A1361A	237.995	124.317	19.623	1.00	79.17	A16S
ATOM	28780	C2*	C	A1361A	239.845	122.053	16.243	1.00	78.77	A16S
ATOM	28781	O2*	C	A1361A	240.324	120.938	15.522	1.00	78.77	A16S
ATOM	28782	C3*	C	A1361A	240.780	123.247	16.103	1.00	78.77	A16S
ATOM	28783	O3*	C	A1361A	241.292	123.380	14.781	1.00	78.77	A16S
ATOM	28784	P	C	A1362	240.305	123.808	13.577	1.00	70.68	A16S
ATOM	28785	O1P	C	A1362	241.026	124.745	12.655	1.00	71.85	A16S
ATOM	28786	O2P	C	A1362	239.001	124.227	14.147	1.00	71.85	A16S
ATOM	28787	O5*	C	A1362	240.126	122.430	12.803	1.00	70.68	A16S
ATOM	28788	C5*	C	A1362	238.892	121.699	12.816	1.00	70.68	A16S
ATOM	28789	C4*	C	A1362	239.133	120.316	12.276	1.00	70.68	A16S
ATOM	28790	O4*	C	A1362	239.924	119.582	13.232	1.00	70.68	A16S
ATOM	28791	C1*	C	A1362	239.623	118.211	13.127	1.00	70.68	A16S



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ATOM	28792	N1	C	A1362	239.299	117.684	14.458	1.00	71.85	A16S
ATOM	28793	C6	C	A1362	238.599	118.426	15.371	1.00	71.85	A16S
ATOM	28794	C2	C	A1362	239.720	116.394	14.771	1.00	71.85	A16S
ATOM	28795	O2	C	A1362	240.366	115.745	13.917	1.00	71.85	A16S
ATOM	28796	N3	C	A1362	239.422	115.879	15.989	1.00	71.85	A16S
ATOM	28797	C4	C	A1362	238.737	116.606	16.874	1.00	71.85	A16S
ATOM	28798	N4	C	A1362	238.464	116.050	18.065	1.00	71.85	A16S
ATOM	28799	C5	C	A1362	238.300	117.933	16.580	1.00	71.85	A16S
ATOM	28800	C2*	C	A1362	238.512	118.034	12.089	1.00	70.68	A16S
ATOM	28801	O2*	C	A1362	239.094	117.611	10.863	1.00	70.68	A16S
ATOM	28802	C3*	C	A1362	237.919	119.440	12.016	1.00	70.68	A16S
ATOM	28803	O3*	C	A1362	237.407	119.667	10.705	1.00	70.68	A16S
ATOM	28804	P	A	A1363	236.580	121.003	10.383	1.00	77.52	A16S
ATOM	28805	O1P	A	A1363	235.868	121.455	11.605	1.00	94.01	A16S
ATOM	28806	O2P	A	A1363	235.816	120.743	9.147	1.00	94.01	A16S
ATOM	28807	O5*	A	A1363	237.709	122.064	10.041	1.00	77.52	A16S
ATOM	28808	C5*	A	A1363	238.022	122.381	8.681	1.00	77.52	A16S
ATOM	28809	C4*	A	A1363	237.787	123.843	8.447	1.00	77.52	A16S
ATOM	28810	O4*	A	A1363	236.415	124.142	8.817	1.00	77.52	A16S
ATOM	28811	C1*	A	A1363	236.390	125.141	9.815	1.00	77.52	A16S
ATOM	28812	N9	A	A1363	235.260	124.875	10.711	1.00	94.01	A16S
ATOM	28813	C4	A	A1363	234.914	125.582	11.839	1.00	94.01	A16S
ATOM	28814	N3	A	A1363	235.540	126.653	12.360	1.00	94.01	A16S
ATOM	28815	C2	A	A1363	234.919	127.072	13.461	1.00	94.01	A16S
ATOM	28816	N1	A	A1363	233.826	126.583	14.054	1.00	94.01	A16S
ATOM	28817	C6	A	A1363	233.221	125.505	13.503	1.00	94.01	A16S
ATOM	28818	N6	A	A1363	232.131	125.008	14.094	1.00	94.01	A16S
ATOM	28819	C5	A	A1363	233.781	124.967	12.335	1.00	94.01	A16S
ATOM	28820	N7	A	A1363	233.414	123.895	11.537	1.00	94.01	A16S
ATOM	28821	C8	A	A1363	234.320	123.881	10.593	1.00	94.01	A16S
ATOM	28822	C2*	A	A1363	237.775	125.128	10.465	1.00	77.52	A16S
ATOM	28823	O2*	A	A1363	238.089	126.400	10.998	1.00	77.52	A16S
ATOM	28824	C3*	A	A1363	238.670	124.765	9.280	1.00	77.52	A16S
ATOM	28825	O3*	A	A1363	238.949	125.940	8.519	1.00	77.52	A16S
ATOM	28826	P	U	A1364	239.842	125.839	7.184	1.00	58.91	A16S
ATOM	28827	O1P	U	A1364	240.429	127.193	6.945	1.00	85.35	A16S
ATOM	28828	O2P	U	A1364	240.736	124.663	7.318	1.00	85.35	A16S
ATOM	28829	O5*	U	A1364	238.794	125.528	6.024	1.00	58.91	A16S
ATOM	28830	C5*	U	A1364	238.754	126.333	4.824	1.00	58.91	A16S
ATOM	28831	C4*	U	A1364	238.121	125.556	3.697	1.00	58.91	A16S
ATOM	28832	O4*	U	A1364	238.965	124.426	3.366	1.00	58.91	A16S
ATOM	28833	C1*	U	A1364	238.223	123.230	3.467	1.00	58.91	A16S
ATOM	28834	N1	U	A1364	239.124	122.192	3.978	1.00	85.35	A16S
ATOM	28835	C6	U	A1364	239.840	122.388	5.126	1.00	85.35	A16S
ATOM	28836	C2	U	A1364	239.240	121.023	3.255	1.00	85.35	A16S
ATOM	28837	O2	U	A1364	238.612	120.806	2.240	1.00	85.35	A16S
ATOM	28838	N3	U	A1364	240.124	120.113	3.769	1.00	85.35	A16S
ATOM	28839	C4	U	A1364	240.885	120.260	4.908	1.00	85.35	A16S
ATOM	28840	O4	U	A1364	241.693	119.386	5.212	1.00	85.35	A16S
ATOM	28841	C5	U	A1364	240.691	121.490	5.601	1.00	85.35	A16S
ATOM	28842	C2*	U	A1364	237.016	123.541	4.351	1.00	58.91	A16S
ATOM	28843	O2*	U	A1364	235.932	122.697	4.033	1.00	58.91	A16S
ATOM	28844	C3*	U	A1364	236.735	124.988	3.973	1.00	58.91	A16S
ATOM	28845	O3*	U	A1364	236.038	124.998	2.745	1.00	58.91	A16S
ATOM	28846	P	G	A1365	234.668	125.804	2.616	1.00	55.51	A16S
ATOM	28847	O1P	G	A1365	234.073	125.422	1.308	1.00	84.67	A16S
ATOM	28848	O2P	G	A1365	234.931	127.238	2.898	1.00	84.67	A16S
ATOM	28849	O5*	G	A1365	233.783	125.178	3.787	1.00	55.51	A16S
ATOM	28850	C5*	G	A1365	233.113	123.911	3.606	1.00	55.51	A16S
ATOM	28851	C4*	G	A1365	231.903	123.814	4.509	1.00	55.51	A16S
ATOM	28852	O4*	G	A1365	232.321	123.500	5.866	1.00	55.51	A16S
ATOM	28853	C1*	G	A1365	231.480	124.177	6.792	1.00	55.51	A16S
ATOM	28854	N9	G	A1365	232.280	125.153	7.536	1.00	84.67	A16S
ATOM	28855	C4	G	A1365	231.925	125.779	8.709	1.00	84.67	A16S
ATOM	28856	N3	G	A1365	230.781	125.584	9.395	1.00	84.67	A16S
ATOM	28857	C2	G	A1365	230.715	126.348	10.466	1.00	84.67	A16S
ATOM	28858	N2	G	A1365	229.637	126.280	11.265	1.00	84.67	A16S
ATOM	28859	N1	G	A1365	231.698	127.233	10.832	1.00	84.67	A16S
ATOM	28860	C6	G	A1365	232.883	127.446	10.138	1.00	84.67	A16S
ATOM	28861	O6	G	A1365	233.703	128.271	10.551	1.00	84.67	A16S
ATOM	28862	C5	G	A1365	232.966	126.637	8.996	1.00	84.67	A16S
ATOM	28863	N7	G	A1365	233.963	126.544	8.039	1.00	84.67	A16S
ATOM	28864	C8	G	A1365	233.517	125.653	7.195	1.00	84.67	A16S
ATOM	28865	C2*	G	A1365	230.379	124.867	5.986	1.00	55.51	A16S
ATOM	28866	O2*	G	A1365	229.288	123.980	5.906	1.00	55.51	A16S
ATOM	28867	C3*	G	A1365	231.053	125.071	4.636	1.00	55.51	A16S
ATOM	28868	O3*	G	A1365	230.097	125.189	3.591	1.00	55.51	A16S



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ATOM	28869	P	C	A1366	229.476	126.639	3.238	1.00	60.46	A16S
ATOM	28870	O1P	C	A1366	228.332	126.460	2.304	1.00	104.93	A16S
ATOM	28871	O2P	C	A1366	230.584	127.556	2.866	1.00	104.93	A16S
ATOM	28872	O5*	C	A1366	228.849	127.138	4.614	1.00	60.46	A16S
ATOM	28873	C5*	C	A1366	227.644	126.543	5.128	1.00	60.46	A16S
ATOM	28874	C4*	C	A1366	227.147	127.310	6.328	1.00	60.46	A16S
ATOM	28875	O4*	C	A1366	228.094	127.168	7.410	1.00	60.46	A16S
ATOM	28876	C1*	C	A1366	228.157	128.378	8.141	1.00	60.46	A16S
ATOM	28877	N1	C	A1366	229.550	128.879	8.086	1.00	104.93	A16S
ATOM	28878	C6	C	A1366	230.320	128.678	6.975	1.00	104.93	A16S
ATOM	28879	C2	C	A1366	230.075	129.567	9.190	1.00	104.93	A16S
ATOM	28880	O2	C	A1366	229.363	129.749	10.187	1.00	104.93	A16S
ATOM	28881	N3	C	A1366	231.345	130.023	9.136	1.00	104.93	A16S
ATOM	28882	C4	C	A1366	232.082	129.819	8.046	1.00	104.93	A16S
ATOM	28883	N4	C	A1366	233.327	130.283	8.040	1.00	104.93	A16S
ATOM	28884	C5	C	A1366	231.576	129.128	6.914	1.00	104.93	A16S
ATOM	28885	C2*	C	A1366	227.129	129.349	7.538	1.00	60.46	A16S
ATOM	28886	O2*	C	A1366	225.900	129.295	8.236	1.00	60.46	A16S
ATOM	28887	C3*	C	A1366	226.976	128.807	6.130	1.00	60.46	A16S
ATOM	28888	O3*	C	A1366	225.688	129.112	5.633	1.00	60.46	A16S
ATOM	28889	P	C	A1367	225.475	130.430	4.755	1.00	54.07	A16S
ATOM	28890	O1P	C	A1367	224.095	130.385	4.211	1.00	73.29	A16S
ATOM	28891	O2P	C	A1367	226.634	130.544	3.826	1.00	73.29	A16S
ATOM	28892	O5*	C	A1367	225.556	131.622	5.807	1.00	54.07	A16S
ATOM	28893	C5*	C	A1367	224.521	131.825	6.800	1.00	54.07	A16S
ATOM	28894	C4*	C	A1367	224.902	132.957	7.731	1.00	54.07	A16S
ATOM	28895	O4*	C	A1367	226.044	132.577	8.557	1.00	54.07	A16S
ATOM	28896	C1*	C	A1367	226.888	133.701	8.752	1.00	54.07	A16S
ATOM	28897	N1	C	A1367	228.236	133.401	8.230	1.00	73.29	A16S
ATOM	28898	C6	C	A1367	228.563	132.148	7.797	1.00	73.29	A16S
ATOM	28899	C2	C	A1367	229.196	134.441	8.175	1.00	73.29	A16S
ATOM	28900	O2	C	A1367	228.885	135.578	8.567	1.00	73.29	A16S
ATOM	28901	N3	C	A1367	230.430	134.178	7.686	1.00	73.29	A16S
ATOM	28902	C4	C	A1367	230.726	132.953	7.256	1.00	73.29	A16S
ATOM	28903	N4	C	A1367	231.945	132.745	6.771	1.00	73.29	A16S
ATOM	28904	C5	C	A1367	229.781	131.885	7.302	1.00	73.29	A16S
ATOM	28905	C2*	C	A1367	226.254	134.897	8.038	1.00	54.07	A16S
ATOM	28906	O2*	C	A1367	225.581	135.678	8.993	1.00	54.07	A16S
ATOM	28907	C3*	C	A1367	225.343	134.223	7.020	1.00	54.07	A16S
ATOM	28908	O3*	C	A1367	224.249	135.040	6.645	1.00	54.07	A16S
ATOM	28909	P	G	A1368	224.338	135.893	5.285	1.00	58.67	A16S
ATOM	28910	O1P	G	A1368	223.091	136.715	5.154	1.00	69.60	A16S
ATOM	28911	O2P	G	A1368	224.685	134.925	4.217	1.00	69.60	A16S
ATOM	28912	O5*	G	A1368	225.602	136.865	5.494	1.00	58.67	A16S
ATOM	28913	C5*	G	A1368	225.474	138.100	6.258	1.00	58.67	A16S
ATOM	28914	C4*	G	A1368	226.827	138.765	6.554	1.00	58.67	A16S
ATOM	28915	O4*	G	A1368	227.785	137.820	7.110	1.00	58.67	A16S
ATOM	28916	C1*	G	A1368	229.093	138.349	6.957	1.00	58.67	A16S
ATOM	28917	N9	G	A1368	229.983	137.367	6.344	1.00	69.60	A16S
ATOM	28918	C4	G	A1368	231.358	137.475	6.260	1.00	69.60	A16S
ATOM	28919	N3	G	A1368	232.114	138.487	6.757	1.00	69.60	A16S
ATOM	28920	C2	G	A1368	233.398	138.323	6.486	1.00	69.60	A16S
ATOM	28921	N2	G	A1368	234.293	139.232	6.883	1.00	69.60	A16S
ATOM	28922	N1	G	A1368	233.897	137.256	5.798	1.00	69.60	A16S
ATOM	28923	C6	G	A1368	233.143	136.207	5.281	1.00	69.60	A16S
ATOM	28924	O6	G	A1368	233.701	135.292	4.668	1.00	69.60	A16S
ATOM	28925	C5	G	A1368	231.767	136.367	5.557	1.00	69.60	A16S
ATOM	28926	N7	G	A1368	230.684	135.562	5.227	1.00	69.60	A16S
ATOM	28927	C8	G	A1368	229.650	136.193	5.714	1.00	69.60	A16S
ATOM	28928	C2*	G	A1368	229.001	139.593	6.078	1.00	58.67	A16S
ATOM	28929	O2*	G	A1368	229.152	140.717	6.909	1.00	58.67	A16S
ATOM	28930	C3*	G	A1368	227.616	139.458	5.448	1.00	58.67	A16S
ATOM	28931	O3*	G	A1368	227.119	140.758	5.125	1.00	58.67	A16S
ATOM	28932	P	C	A1369	227.732	141.560	3.860	1.00	56.44	A16S
ATOM	28933	O1P	C	A1369	227.025	142.867	3.750	1.00	87.19	A16S
ATOM	28934	O2P	C	A1369	227.782	140.654	2.683	1.00	87.19	A16S
ATOM	28935	O5*	C	A1369	229.242	141.852	4.270	1.00	56.44	A16S
ATOM	28936	C5*	C	A1369	229.543	142.765	5.331	1.00	56.44	A16S
ATOM	28937	C4*	C	A1369	230.983	143.191	5.263	1.00	56.44	A16S
ATOM	28938	O4*	C	A1369	231.863	142.092	5.605	1.00	56.44	A16S
ATOM	28939	C1*	C	A1369	233.037	142.172	4.817	1.00	56.44	A16S
ATOM	28940	N1	C	A1369	233.192	140.901	4.081	1.00	87.19	A16S
ATOM	28941	C6	C	A1369	232.141	140.032	3.964	1.00	87.19	A16S
ATOM	28942	C2	C	A1369	234.437	140.583	3.509	1.00	87.19	A16S
ATOM	28943	O2	C	A1369	235.372	141.390	3.605	1.00	87.19	A16S
ATOM	28944	N3	C	A1369	234.581	139.402	2.864	1.00	87.19	A16S
ATOM	28945	C4	C	A1369	233.548	138.557	2.777	1.00	87.19	A16S



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ATOM	28946	N4	C	A1369	233.736	137.396	2.156	1.00	87.19	A16S
ATOM	28947	C5	C	A1369	232.275	138.862	3.331	1.00	87.19	A16S
ATOM	28948	C2*	C	A1369	232.930	143.422	3.930	1.00	56.44	A16S
ATOM	28949	O2*	C	A1369	233.617	144.482	4.550	1.00	56.44	A16S
ATOM	28950	C3*	C	A1369	231.432	143.676	3.900	1.00	56.44	A16S
ATOM	28951	O3*	C	A1369	231.142	145.058	3.806	1.00	56.44	A16S
ATOM	28952	P	G	A1370	230.607	145.667	2.430	1.00	69.06	A16S
ATOM	28953	O1P	G	A1370	230.076	147.026	2.723	1.00	101.36	A16S
ATOM	28954	O2P	G	A1370	229.712	144.658	1.800	1.00	101.36	A16S
ATOM	28955	O5*	G	A1370	231.945	145.830	1.575	1.00	69.06	A16S
ATOM	28956	C5*	G	A1370	232.866	146.902	1.879	1.00	69.06	A16S
ATOM	28957	C4*	G	A1370	234.307	146.511	1.579	1.00	69.06	A16S
ATOM	28958	O4*	G	A1370	234.614	145.221	2.166	1.00	69.06	A16S
ATOM	28959	C1*	G	A1370	235.618	144.583	1.405	1.00	69.06	A16S
ATOM	28960	N9	G	A1370	235.099	143.302	0.935	1.00	101.36	A16S
ATOM	28961	C4	G	A1370	235.811	142.324	0.277	1.00	101.36	A16S
ATOM	28962	N3	G	A1370	237.125	142.373	-0.037	1.00	101.36	A16S
ATOM	28963	C2	G	A1370	237.517	141.297	-0.695	1.00	101.36	A16S
ATOM	28964	N2	G	A1370	238.789	141.192	-1.090	1.00	101.36	A16S
ATOM	28965	N1	G	A1370	236.686	140.248	-1.017	1.00	101.36	A16S
ATOM	28966	C6	G	A1370	235.329	140.173	-0.704	1.00	101.36	A16S
ATOM	28967	O6	G	A1370	234.663	139.179	-1.047	1.00	101.36	A16S
ATOM	28968	C5	G	A1370	234.896	141.326	0.004	1.00	101.36	A16S
ATOM	28969	N7	G	A1370	233.642	141.662	0.494	1.00	101.36	A16S
ATOM	28970	C8	G	A1370	233.811	142.837	1.039	1.00	101.36	A16S
ATOM	28971	C2*	G	A1370	235.995	145.521	0.254	1.00	69.06	A16S
ATOM	28972	O2*	G	A1370	237.112	146.297	0.634	1.00	69.06	A16S
ATOM	28973	C3*	G	A1370	234.756	146.393	0.129	1.00	69.06	A16S
ATOM	28974	O3*	G	A1370	235.122	147.664	-0.401	1.00	69.06	A16S
ATOM	28975	P	G	A1371	235.305	147.849	-1.988	1.00	62.62	A16S
ATOM	28976	O1P	G	A1371	235.598	149.276	-2.281	1.00	91.73	A16S
ATOM	28977	O2P	G	A1371	234.154	147.197	-2.647	1.00	91.73	A16S
ATOM	28978	O5*	G	A1371	236.619	147.008	-2.321	1.00	62.62	A16S
ATOM	28979	C5*	G	A1371	237.919	147.475	-1.902	1.00	62.62	A16S
ATOM	28980	C4*	G	A1371	239.031	146.669	-2.553	1.00	62.62	A16S
ATOM	28981	O4*	G	A1371	239.037	145.297	-2.075	1.00	62.62	A16S
ATOM	28982	C1*	G	A1371	239.495	144.438	-3.108	1.00	62.62	A16S
ATOM	28983	N9	G	A1371	238.453	143.449	-3.388	1.00	91.73	A16S
ATOM	28984	C4	G	A1371	238.575	142.293	-4.138	1.00	91.73	A16S
ATOM	28985	N3	G	A1371	239.689	141.863	-4.768	1.00	91.73	A16S
ATOM	28986	C2	G	A1371	239.494	140.709	-5.387	1.00	91.73	A16S
ATOM	28987	N2	G	A1371	240.508	140.123	-6.042	1.00	91.73	A16S
ATOM	28988	N1	G	A1371	238.295	140.038	-5.406	1.00	91.73	A16S
ATOM	28989	C6	G	A1371	237.130	140.464	-4.778	1.00	91.73	A16S
ATOM	28990	O6	G	A1371	236.091	139.785	-4.869	1.00	91.73	A16S
ATOM	28991	C5	G	A1371	237.331	141.695	-4.092	1.00	91.73	A16S
ATOM	28992	N7	G	A1371	236.448	142.457	-3.341	1.00	91.73	A16S
ATOM	28993	C8	G	A1371	237.152	143.484	-2.949	1.00	91.73	A16S
ATOM	28994	C2*	G	A1371	239.859	145.315	-4.311	1.00	62.62	A16S
ATOM	28995	O2*	G	A1371	241.237	145.615	-4.237	1.00	62.62	A16S
ATOM	28996	C3*	G	A1371	239.015	146.557	-4.066	1.00	62.62	A16S
ATOM	28997	O3*	G	A1371	239.625	147.690	-4.639	1.00	62.62	A16S
ATOM	28998	P	U	A1372	239.072	148.277	-6.023	1.00	71.36	A16S
ATOM	28999	O1P	U	A1372	239.876	149.485	-6.331	1.00	94.40	A16S
ATOM	29000	O2P	U	A1372	237.591	148.394	-5.926	1.00	94.40	A16S
ATOM	29001	O5*	U	A1372	239.438	147.146	-7.084	1.00	71.36	A16S
ATOM	29002	C5*	U	A1372	240.808	146.775	-7.317	1.00	71.36	A16S
ATOM	29003	C4*	U	A1372	240.899	145.575	-8.239	1.00	71.36	A16S
ATOM	29004	O4*	U	A1372	240.543	144.343	-7.548	1.00	71.36	A16S
ATOM	29005	C1*	U	A1372	240.009	143.418	-8.483	1.00	71.36	A16S
ATOM	29006	N1	U	A1372	238.658	143.017	-8.066	1.00	94.40	A16S
ATOM	29007	C6	U	A1372	237.948	143.726	-7.132	1.00	94.40	A16S
ATOM	29008	C2	U	A1372	238.113	141.902	-8.672	1.00	94.40	A16S
ATOM	29009	O2	U	A1372	238.717	141.234	-9.495	1.00	94.40	A16S
ATOM	29010	N3	U	A1372	236.833	141.597	-8.282	1.00	94.40	A16S
ATOM	29011	C4	U	A1372	236.060	142.275	-7.364	1.00	94.40	A16S
ATOM	29012	O4	U	A1372	234.907	141.895	-7.136	1.00	94.40	A16S
ATOM	29013	C5	U	A1372	236.702	143.405	-6.773	1.00	94.40	A16S
ATOM	29014	C2*	U	A1372	239.989	144.101	-9.852	1.00	71.36	A16S
ATOM	29015	O2*	U	A1372	241.133	143.708	-10.573	1.00	71.36	A16S
ATOM	29016	C3*	U	A1372	240.029	145.579	-9.484	1.00	71.36	A16S
ATOM	29017	O3*	U	A1372	240.591	146.343	-10.538	1.00	71.36	A16S
ATOM	29018	P	G	A1373	239.623	146.993	-11.640	1.00	63.81	A16S
ATOM	29019	O1P	G	A1373	240.394	147.329	-12.865	1.00	92.06	A16S
ATOM	29020	O2P	G	A1373	238.821	148.046	-10.971	1.00	92.06	A16S
ATOM	29021	O5*	G	A1373	238.640	145.805	-12.028	1.00	63.81	A16S
ATOM	29022	C5*	G	A1373	239.118	144.648	-12.739	1.00	63.81	A16S



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ATOM	29023	C4*	G	A1373	237.999	143.645	-12.936	1.00	63.81	A16S
ATOM	29024	O4*	G	A1373	237.596	143.057	-11.669	1.00	63.81	A16S
ATOM	29025	C1*	G	A1373	236.212	142.751	-11.709	1.00	63.81	A16S
ATOM	29026	N9	G	A1373	235.527	143.556	-10.703	1.00	92.06	A16S
ATOM	29027	C4	G	A1373	234.399	143.198	-10.002	1.00	92.06	A16S
ATOM	29028	N3	G	A1373	233.737	142.029	-10.114	1.00	92.06	A16S
ATOM	29029	C2	G	A1373	232.696	141.974	-9.308	1.00	92.06	A16S
ATOM	29030	N2	G	A1373	231.923	140.882	-9.297	1.00	92.06	A16S
ATOM	29031	N1	G	A1373	232.331	142.984	-8.453	1.00	92.06	A16S
ATOM	29032	C6	G	A1373	232.988	144.197	-8.320	1.00	92.06	A16S
ATOM	29033	O6	G	A1373	232.565	145.038	-7.517	1.00	92.06	A16S
ATOM	29034	C5	G	A1373	234.114	144.274	-9.189	1.00	92.06	A16S
ATOM	29035	N7	G	A1373	235.041	145.289	-9.378	1.00	92.06	A16S
ATOM	29036	C8	G	A1373	235.860	144.818	-10.279	1.00	92.06	A16S
ATOM	29037	C2*	G	A1373	235.708	143.106	-13.105	1.00	63.81	A16S
ATOM	29038	O2*	G	A1373	235.801	141.970	-13.944	1.00	63.81	A16S
ATOM	29039	C3*	G	A1373	236.701	144.176	-13.515	1.00	63.81	A16S
ATOM	29040	O3*	G	A1373	236.739	144.323	-14.914	1.00	63.81	A16S
ATOM	29041	P	A	A1374	235.544	145.095	-15.643	1.00	59.29	A16S
ATOM	29042	O1P	A	A1374	235.985	145.467	-17.017	1.00	76.68	A16S
ATOM	29043	O2P	A	A1374	235.057	146.149	-14.724	1.00	76.68	A16S
ATOM	29044	O5*	A	A1374	234.405	143.986	-15.720	1.00	59.29	A16S
ATOM	29045	C5*	A	A1374	233.742	143.673	-16.970	1.00	59.29	A16S
ATOM	29046	C4*	A	A1374	234.329	142.412	-17.568	1.00	59.29	A16S
ATOM	29047	O4*	A	A1374	234.420	141.380	-16.551	1.00	59.29	A16S
ATOM	29048	C1*	A	A1374	234.130	140.121	-17.123	1.00	59.29	A16S
ATOM	29049	N9	A	A1374	232.981	139.548	-16.402	1.00	76.68	A16S
ATOM	29050	C4	A	A1374	232.296	138.389	-16.691	1.00	76.68	A16S
ATOM	29051	N3	A	A1374	232.499	137.554	-17.719	1.00	76.68	A16S
ATOM	29052	C2	A	A1374	231.667	136.521	-17.660	1.00	76.68	A16S
ATOM	29053	N1	A	A1374	230.721	136.245	-16.764	1.00	76.68	A16S
ATOM	29054	C6	A	A1374	230.534	137.100	-15.743	1.00	76.68	A16S
ATOM	29055	N6	A	A1374	229.586	136.811	-14.848	1.00	76.68	A16S
ATOM	29056	C5	A	A1374	231.358	138.244	-15.689	1.00	76.68	A16S
ATOM	29057	N7	A	A1374	231.429	139.302	-14.799	1.00	76.68	A16S
ATOM	29058	C8	A	A1374	232.396	140.048	-15.269	1.00	76.68	A16S
ATOM	29059	C2*	A	A1374	233.953	140.332	-18.631	1.00	59.29	A16S
ATOM	29060	O2*	A	A1374	235.201	140.167	-19.271	1.00	59.29	A16S
ATOM	29061	C3*	A	A1374	233.530	141.787	-18.696	1.00	59.29	A16S
ATOM	29062	O3*	A	A1374	233.858	142.352	-19.951	1.00	59.29	A16S
ATOM	29063	P	A	A1375	232.754	142.358	-21.111	1.00	56.44	A16S
ATOM	29064	O1P	A	A1375	233.371	142.843	-22.380	1.00	71.28	A16S
ATOM	29065	O2P	A	A1375	231.554	143.053	-20.568	1.00	71.28	A16S
ATOM	29066	O5*	A	A1375	232.413	140.812	-21.286	1.00	56.44	A16S
ATOM	29067	C5*	A	A1375	233.404	139.907	-21.791	1.00	56.44	A16S
ATOM	29068	C4*	A	A1375	232.809	138.540	-22.030	1.00	56.44	A16S
ATOM	29069	O4*	A	A1375	232.452	137.926	-20.770	1.00	56.44	A16S
ATOM	29070	C1*	A	A1375	231.295	137.131	-20.936	1.00	56.44	A16S
ATOM	29071	N9	A	A1375	230.271	137.655	-20.039	1.00	71.28	A16S
ATOM	29072	C4	A	A1375	229.104	137.038	-19.671	1.00	71.28	A16S
ATOM	29073	N3	A	A1375	228.661	135.832	-20.063	1.00	71.28	A16S
ATOM	29074	C2	A	A1375	227.492	135.552	-19.484	1.00	71.28	A16S
ATOM	29075	N1	A	A1375	226.770	136.292	-18.631	1.00	71.28	A16S
ATOM	29076	C6	A	A1375	227.242	137.505	-18.274	1.00	71.28	A16S
ATOM	29077	N6	A	A1375	226.515	138.253	-17.448	1.00	71.28	A16S
ATOM	29078	C5	A	A1375	228.475	137.908	-18.807	1.00	71.28	A16S
ATOM	29079	N7	A	A1375	229.231	139.054	-18.635	1.00	71.28	A16S
ATOM	29080	C8	A	A1375	230.280	138.856	-19.388	1.00	71.28	A16S
ATOM	29081	C2*	A	A1375	230.897	137.187	-22.412	1.00	56.44	A16S
ATOM	29082	O2*	A	A1375	231.424	136.059	-23.085	1.00	56.44	A16S
ATOM	29083	C3*	A	A1375	231.540	138.496	-22.854	1.00	56.44	A16S
ATOM	29084	O3*	A	A1375	231.830	138.522	-24.238	1.00	56.44	A16S
ATOM	29085	P	U	A1376	230.926	139.424	-25.209	1.00	63.78	A16S
ATOM	29086	O1P	U	A1376	231.460	139.303	-26.606	1.00	70.78	A16S
ATOM	29087	O2P	U	A1376	230.793	140.774	-24.580	1.00	70.78	A16S
ATOM	29088	O5*	U	A1376	229.512	138.692	-25.158	1.00	63.78	A16S
ATOM	29089	C5*	U	A1376	229.403	137.307	-25.533	1.00	63.78	A16S
ATOM	29090	C4*	U	A1376	228.108	136.714	-25.036	1.00	63.78	A16S
ATOM	29091	O4*	U	A1376	228.112	136.618	-23.584	1.00	63.78	A16S
ATOM	29092	C1*	U	A1376	226.792	136.762	-23.099	1.00	63.78	A16S
ATOM	29093	N1	U	A1376	226.740	137.912	-22.181	1.00	70.78	A16S
ATOM	29094	C6	U	A1376	227.587	138.983	-22.307	1.00	70.78	A16S
ATOM	29095	C2	U	A1376	225.781	137.891	-21.196	1.00	70.78	A16S
ATOM	29096	O2	U	A1376	225.030	136.952	-21.030	1.00	70.78	A16S
ATOM	29097	N3	U	A1376	225.725	139.010	-20.408	1.00	70.78	A16S
ATOM	29098	C4	U	A1376	226.515	140.125	-20.496	1.00	70.78	A16S
ATOM	29099	O4	U	A1376	226.289	141.090	-19.755	1.00	70.78	A16S



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ATOM	29100	C5	U	A1376	227.508	140.063	-21.522	1.00	70.78	A16S
ATOM	29101	C2*	U	A1376	225.870	136.950	-24.311	1.00	63.78	A16S
ATOM	29102	O2*	U	A1376	225.289	135.713	-24.682	1.00	63.78	A16S
ATOM	29103	C3*	U	A1376	226.837	137.471	-25.368	1.00	63.78	A16S
ATOM	29104	O3*	U	A1376	226.384	137.206	-26.690	1.00	63.78	A16S
ATOM	29105	P	A	A1377	225.340	138.213	-27.387	1.00	63.64	A16S
ATOM	29106	O1P	A	A1377	225.264	137.896	-28.840	1.00	67.60	A16S
ATOM	29107	O2P	A	A1377	225.674	139.592	-26.959	1.00	67.60	A16S
ATOM	29108	O5*	A	A1377	223.938	137.830	-26.729	1.00	63.64	A16S
ATOM	29109	C5*	A	A1377	223.206	136.674	-27.169	1.00	63.64	A16S
ATOM	29110	C4*	A	A1377	221.957	136.488	-26.336	1.00	63.64	A16S
ATOM	29111	O4*	A	A1377	222.329	136.252	-24.951	1.00	63.64	A16S
ATOM	29112	C1*	A	A1377	221.320	136.771	-24.093	1.00	63.64	A16S
ATOM	29113	N9	A	A1377	221.888	137.832	-23.265	1.00	67.60	A16S
ATOM	29114	C4	A	A1377	221.429	138.207	-22.029	1.00	67.60	A16S
ATOM	29115	N3	A	A1377	220.436	137.645	-21.324	1.00	67.60	A16S
ATOM	29116	C2	A	A1377	220.256	138.294	-20.180	1.00	67.60	A16S
ATOM	29117	N1	A	A1377	220.905	139.356	-19.702	1.00	67.60	A16S
ATOM	29118	C6	A	A1377	221.899	139.886	-20.444	1.00	67.60	A16S
ATOM	29119	N6	A	A1377	222.551	140.947	-19.982	1.00	67.60	A16S
ATOM	29120	C5	A	A1377	222.190	139.293	-21.661	1.00	67.60	A16S
ATOM	29121	N7	A	A1377	223.140	139.580	-22.625	1.00	67.60	A16S
ATOM	29122	C8	A	A1377	222.924	138.682	-23.552	1.00	67.60	A16S
ATOM	29123	C2*	A	A1377	220.221	137.361	-24.972	1.00	63.64	A16S
ATOM	29124	O2*	A	A1377	219.203	136.393	-25.129	1.00	63.64	A16S
ATOM	29125	C3*	A	A1377	220.982	137.655	-26.259	1.00	63.64	A16S
ATOM	29126	O3*	A	A1377	220.100	137.728	-27.360	1.00	63.64	A16S
ATOM	29127	P	C	A1378	219.152	139.016	-27.518	1.00	60.46	A16S
ATOM	29128	O1P	C	A1378	220.052	140.204	-27.537	1.00	75.96	A16S
ATOM	29129	O2P	C	A1378	218.052	138.941	-26.509	1.00	75.96	A16S
ATOM	29130	O5*	C	A1378	218.510	138.848	-28.966	1.00	60.46	A16S
ATOM	29131	C5*	C	A1378	219.205	139.329	-30.122	1.00	60.46	A16S
ATOM	29132	C4*	C	A1378	219.119	138.331	-31.251	1.00	60.46	A16S
ATOM	29133	O4*	C	A1378	219.928	137.156	-30.989	1.00	60.46	A16S
ATOM	29134	C1*	C	A1378	219.330	136.027	-31.599	1.00	60.46	A16S
ATOM	29135	N1	C	A1378	219.138	134.976	-30.580	1.00	75.96	A16S
ATOM	29136	C6	C	A1378	219.288	135.253	-29.249	1.00	75.96	A16S
ATOM	29137	C2	C	A1378	218.819	133.661	-30.997	1.00	75.96	A16S
ATOM	29138	O2	C	A1378	218.644	133.425	-32.212	1.00	75.96	A16S
ATOM	29139	N3	C	A1378	218.706	132.685	-30.065	1.00	75.96	A16S
ATOM	29140	C4	C	A1378	218.885	132.969	-28.774	1.00	75.96	A16S
ATOM	29141	N4	C	A1378	218.787	131.971	-27.898	1.00	75.96	A16S
ATOM	29142	C5	C	A1378	219.177	134.290	-28.324	1.00	75.96	A16S
ATOM	29143	C2*	C	A1378	218.047	136.492	-32.290	1.00	60.46	A16S
ATOM	29144	O2*	C	A1378	218.336	136.726	-33.656	1.00	60.46	A16S
ATOM	29145	C3*	C	A1378	217.741	137.784	-31.544	1.00	60.46	A16S
ATOM	29146	O3*	C	A1378	217.001	138.709	-32.318	1.00	60.46	A16S
ATOM	29147	P	G	A1379	215.595	139.230	-31.761	1.00	72.47	A16S
ATOM	29148	O1P	G	A1379	214.984	140.155	-32.750	1.00	62.05	A16S
ATOM	29149	O2P	G	A1379	215.832	139.685	-30.362	1.00	62.05	A16S
ATOM	29150	O5*	G	A1379	214.702	137.917	-31.757	1.00	72.47	A16S
ATOM	29151	C5*	G	A1379	214.327	137.272	-30.537	1.00	72.47	A16S
ATOM	29152	C4*	G	A1379	214.612	135.800	-30.636	1.00	72.47	A16S
ATOM	29153	O4*	G	A1379	215.862	135.509	-29.970	1.00	72.47	A16S
ATOM	29154	C1*	G	A1379	215.773	134.247	-29.338	1.00	72.47	A16S
ATOM	29155	N9	G	A1379	216.069	134.409	-27.918	1.00	62.05	A16S
ATOM	29156	C4	G	A1379	216.171	133.392	-27.008	1.00	62.05	A16S
ATOM	29157	N3	G	A1379	215.975	132.085	-27.267	1.00	62.05	A16S
ATOM	29158	C2	G	A1379	216.179	131.337	-26.201	1.00	62.05	A16S
ATOM	29159	N2	G	A1379	216.037	130.017	-26.292	1.00	62.05	A16S
ATOM	29160	N1	G	A1379	216.539	131.830	-24.971	1.00	62.05	A16S
ATOM	29161	C6	G	A1379	216.733	133.173	-24.678	1.00	62.05	A16S
ATOM	29162	O6	G	A1379	217.049	133.512	-23.533	1.00	62.05	A16S
ATOM	29163	C5	G	A1379	216.523	133.993	-25.821	1.00	62.05	A16S
ATOM	29164	N7	G	A1379	216.610	135.370	-25.974	1.00	62.05	A16S
ATOM	29165	C8	G	A1379	216.325	135.573	-27.232	1.00	62.05	A16S
ATOM	29166	C2*	G	A1379	214.384	133.662	-29.608	1.00	72.47	A16S
ATOM	29167	O2*	G	A1379	214.462	132.723	-30.661	1.00	72.47	A16S
ATOM	29168	C3*	G	A1379	213.585	134.912	-29.958	1.00	72.47	A16S
ATOM	29169	O3*	G	A1379	212.544	134.633	-30.877	1.00	72.47	A16S
ATOM	29170	P	U	A1380	211.010	134.796	-30.425	1.00	90.82	A16S
ATOM	29171	O1P	U	A1380	210.206	134.742	-31.690	1.00	71.20	A16S
ATOM	29172	O2P	U	A1380	210.867	135.960	-29.505	1.00	71.20	A16S
ATOM	29173	O5*	U	A1380	210.718	133.475	-29.591	1.00	90.82	A16S
ATOM	29174	C5*	U	A1380	210.647	132.202	-30.248	1.00	90.82	A16S
ATOM	29175	C4*	U	A1380	210.512	131.124	-29.224	1.00	90.82	A16S
ATOM	29176	O4*	U	A1380	211.665	131.205	-28.367	1.00	90.82	A16S



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ATOM	29177	C1*	U	A1380	211.305	130.821	-27.069	1.00	90.82	A16S
ATOM	29178	N1	U	A1380	212.080	131.619	-26.118	1.00	71.20	A16S
ATOM	29179	C6	U	A1380	212.577	132.840	-26.459	1.00	71.20	A16S
ATOM	29180	C2	U	A1380	212.298	131.081	-24.857	1.00	71.20	A16S
ATOM	29181	O2	U	A1380	211.875	129.984	-24.510	1.00	71.20	A16S
ATOM	29182	N3	U	A1380	213.027	131.868	-24.012	1.00	71.20	A16S
ATOM	29183	C4	U	A1380	213.544	133.104	-24.282	1.00	71.20	A16S
ATOM	29184	O4	U	A1380	214.116	133.724	-23.383	1.00	71.20	A16S
ATOM	29185	C5	U	A1380	213.284	133.584	-25.611	1.00	71.20	A16S
ATOM	29186	C2*	U	A1380	209.778	130.832	-26.934	1.00	90.82	A16S
ATOM	29187	O2*	U	A1380	209.348	129.557	-26.529	1.00	90.82	A16S
ATOM	29188	C3*	U	A1380	209.329	131.343	-28.307	1.00	90.82	A16S
ATOM	29189	O3*	U	A1380	208.106	130.900	-28.941	1.00	90.82	A16S
ATOM	29190	P	U	A1381	207.677	129.330	-29.012	1.00	67.84	A16S
ATOM	29191	O1P	U	A1381	206.380	129.394	-29.737	1.00	82.36	A16S
ATOM	29192	O2P	U	A1381	207.734	128.634	-27.706	1.00	82.36	A16S
ATOM	29193	O5*	U	A1381	208.707	128.585	-29.982	1.00	67.84	A16S
ATOM	29194	C5*	U	A1381	208.212	127.610	-30.949	1.00	67.84	A16S
ATOM	29195	C4*	U	A1381	209.034	126.320	-30.954	1.00	67.84	A16S
ATOM	29196	O4*	U	A1381	210.363	126.576	-31.464	1.00	67.84	A16S
ATOM	29197	C1*	U	A1381	211.270	125.650	-30.902	1.00	67.84	A16S
ATOM	29198	N1	U	A1381	212.374	126.379	-30.263	1.00	82.36	A16S
ATOM	29199	C6	U	A1381	212.321	127.731	-30.040	1.00	82.36	A16S
ATOM	29200	C2	U	A1381	213.477	125.646	-29.893	1.00	82.36	A16S
ATOM	29201	O2	U	A1381	213.556	124.443	-30.058	1.00	82.36	A16S
ATOM	29202	N3	U	A1381	214.483	126.369	-29.315	1.00	82.36	A16S
ATOM	29203	C4	U	A1381	214.498	127.718	-29.068	1.00	82.36	A16S
ATOM	29204	O4	U	A1381	215.506	128.231	-28.574	1.00	82.36	A16S
ATOM	29205	C5	U	A1381	213.316	128.406	-29.469	1.00	82.36	A16S
ATOM	29206	C2*	U	A1381	210.501	124.738	-29.945	1.00	67.84	A16S
ATOM	29207	O2*	U	A1381	210.220	123.525	-30.595	1.00	67.84	A16S
ATOM	29208	C3*	U	A1381	209.243	125.548	-29.657	1.00	67.84	A16S
ATOM	29209	O3*	U	A1381	208.171	124.644	-29.387	1.00	67.84	A16S
ATOM	29210	P	C	A1382	208.011	124.003	-27.911	1.00	53.73	A16S
ATOM	29211	O1P	C	A1382	206.933	122.978	-27.958	1.00	86.65	A16S
ATOM	29212	O2P	C	A1382	207.913	125.126	-26.932	1.00	86.65	A16S
ATOM	29213	O5*	C	A1382	209.372	123.219	-27.657	1.00	53.73	A16S
ATOM	29214	C5*	C	A1382	209.621	121.982	-28.313	1.00	53.73	A16S
ATOM	29215	C4*	C	A1382	210.949	121.444	-27.897	1.00	53.73	A16S
ATOM	29216	O4*	C	A1382	211.978	122.408	-28.218	1.00	53.73	A16S
ATOM	29217	C1*	C	A1382	212.994	122.357	-27.233	1.00	53.73	A16S
ATOM	29218	N1	C	A1382	213.208	123.711	-26.689	1.00	86.65	A16S
ATOM	29219	C6	C	A1382	212.357	124.735	-26.999	1.00	86.65	A16S
ATOM	29220	C2	C	A1382	214.316	123.942	-25.855	1.00	86.65	A16S
ATOM	29221	O2	C	A1382	215.064	122.992	-25.558	1.00	86.65	A16S
ATOM	29222	N3	C	A1382	214.539	125.192	-25.390	1.00	86.65	A16S
ATOM	29223	C4	C	A1382	213.706	126.183	-25.711	1.00	86.65	A16S
ATOM	29224	N4	C	A1382	213.964	127.394	-25.228	1.00	86.65	A16S
ATOM	29225	C5	C	A1382	212.569	125.973	-26.541	1.00	86.65	A16S
ATOM	29226	C2*	C	A1382	212.596	121.297	-26.204	1.00	53.73	A16S
ATOM	29227	O2*	C	A1382	213.206	120.078	-26.562	1.00	53.73	A16S
ATOM	29228	C3*	C	A1382	211.095	121.215	-26.411	1.00	53.73	A16S
ATOM	29229	O3*	C	A1382	210.595	119.943	-26.074	1.00	53.73	A16S
ATOM	29230	P	C	A1383	209.634	119.787	-24.798	1.00	56.47	A16S
ATOM	29231	O1P	C	A1383	208.947	118.462	-24.920	1.00	68.54	A16S
ATOM	29232	O2P	C	A1383	208.822	121.037	-24.699	1.00	68.54	A16S
ATOM	29233	O5*	C	A1383	210.637	119.684	-23.565	1.00	56.47	A16S
ATOM	29234	C5*	C	A1383	211.540	118.582	-23.471	1.00	56.47	A16S
ATOM	29235	C4*	C	A1383	212.565	118.864	-22.427	1.00	56.47	A16S
ATOM	29236	O4*	C	A1383	213.366	119.988	-22.849	1.00	56.47	A16S
ATOM	29237	C1*	C	A1383	213.732	120.764	-21.718	1.00	56.47	A16S
ATOM	29238	N1	C	A1383	213.289	122.153	-21.918	1.00	68.54	A16S
ATOM	29239	C6	C	A1383	212.351	122.466	-22.858	1.00	68.54	A16S
ATOM	29240	C2	C	A1383	213.846	123.147	-21.129	1.00	68.54	A16S
ATOM	29241	O2	C	A1383	214.690	122.831	-20.288	1.00	68.54	A16S
ATOM	29242	N3	C	A1383	213.454	124.427	-21.297	1.00	68.54	A16S
ATOM	29243	C4	C	A1383	212.535	124.727	-22.216	1.00	68.54	A16S
ATOM	29244	N4	C	A1383	212.163	126.009	-22.351	1.00	68.54	A16S
ATOM	29245	C5	C	A1383	211.949	123.729	-23.040	1.00	68.54	A16S
ATOM	29246	C2*	C	A1383	213.107	120.120	-20.484	1.00	56.47	A16S
ATOM	29247	O2*	C	A1383	214.064	119.312	-19.835	1.00	56.47	A16S
ATOM	29248	C3*	C	A1383	211.985	119.308	-21.104	1.00	56.47	A16S
ATOM	29249	O3*	C	A1383	211.605	118.218	-20.305	1.00	56.47	A16S
ATOM	29250	P	C	A1384	210.194	118.269	-19.560	1.00	60.45	A16S
ATOM	29251	O1P	C	A1384	209.916	116.913	-19.032	1.00	56.91	A16S
ATOM	29252	O2P	C	A1384	209.235	118.918	-20.494	1.00	56.91	A16S
ATOM	29253	O5*	C	A1384	210.451	119.224	-18.317	1.00	60.45	A16S



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ATOM	29254	C5*	C	A1384	211.262	118.763	-17.237	1.00	60.45	A16S
ATOM	29255	C4*	C	A1384	211.499	119.858	-16.241	1.00	60.45	A16S
ATOM	29256	O4*	C	A1384	212.268	120.923	-16.846	1.00	60.45	A16S
ATOM	29257	C1*	C	A1384	211.949	122.152	-16.210	1.00	60.45	A16S
ATOM	29258	N1	C	A1384	211.504	123.133	-17.223	1.00	56.91	A16S
ATOM	29259	C6	C	A1384	211.247	122.756	-18.512	1.00	56.91	A16S
ATOM	29260	C2	C	A1384	211.343	124.485	-16.832	1.00	56.91	A16S
ATOM	29261	O2	C	A1384	211.606	124.811	-15.657	1.00	56.91	A16S
ATOM	29262	N3	C	A1384	210.919	125.392	-17.746	1.00	56.91	A16S
ATOM	29263	C4	C	A1384	210.679	125.008	-18.999	1.00	56.91	A16S
ATOM	29264	N4	C	A1384	210.287	125.933	-19.871	1.00	56.91	A16S
ATOM	29265	C5	C	A1384	210.840	123.651	-19.422	1.00	56.91	A16S
ATOM	29266	C2*	C	A1384	210.887	121.857	-15.155	1.00	60.45	A16S
ATOM	29267	O2*	C	A1384	211.557	121.677	-13.919	1.00	60.45	A16S
ATOM	29268	C3*	C	A1384	210.281	120.565	-15.689	1.00	60.45	A16S
ATOM	29269	O3*	C	A1384	209.642	119.801	-14.681	1.00	60.45	A16S
ATOM	29270	P	G	A1385	208.041	119.888	-14.525	1.00	62.64	A16S
ATOM	29271	O1P	G	A1385	207.659	118.793	-13.596	1.00	51.92	A16S
ATOM	29272	O2P	G	A1385	207.421	119.972	-15.879	1.00	51.92	A16S
ATOM	29273	O5*	G	A1385	207.793	121.284	-13.801	1.00	62.64	A16S
ATOM	29274	C5*	G	A1385	208.286	121.504	-12.477	1.00	62.64	A16S
ATOM	29275	C4*	G	A1385	208.123	122.947	-12.090	1.00	62.64	A16S
ATOM	29276	O4*	G	A1385	209.021	123.791	-12.855	1.00	62.64	A16S
ATOM	29277	C1*	G	A1385	208.437	125.068	-13.028	1.00	62.64	A16S
ATOM	29278	N9	G	A1385	208.258	125.318	-14.446	1.00	51.92	A16S
ATOM	29279	C4	G	A1385	208.024	126.538	-15.013	1.00	51.92	A16S
ATOM	29280	N3	G	A1385	207.961	127.712	-14.355	1.00	51.92	A16S
ATOM	29281	C2	G	A1385	207.745	128.731	-15.177	1.00	51.92	A16S
ATOM	29282	N2	G	A1385	207.717	129.988	-14.689	1.00	51.92	A16S
ATOM	29283	N1	G	A1385	207.558	128.591	-16.534	1.00	51.92	A16S
ATOM	29284	C6	G	A1385	207.596	127.382	-17.220	1.00	51.92	A16S
ATOM	29285	O6	G	A1385	207.382	127.360	-18.429	1.00	51.92	A16S
ATOM	29286	C5	G	A1385	207.875	126.297	-16.356	1.00	51.92	A16S
ATOM	29287	N7	G	A1385	208.029	124.950	-16.631	1.00	51.92	A16S
ATOM	29288	C8	G	A1385	208.256	124.407	-15.465	1.00	51.92	A16S
ATOM	29289	C2*	G	A1385	207.064	125.037	-12.376	1.00	62.64	A16S
ATOM	29290	O2*	G	A1385	207.143	125.611	-11.090	1.00	62.64	A16S
ATOM	29291	C3*	G	A1385	206.772	123.547	-12.381	1.00	62.64	A16S
ATOM	29292	O3*	G	A1385	205.773	123.165	-11.477	1.00	62.64	A16S
ATOM	29293	P	G	A1386	204.268	123.084	-12.006	1.00	61.55	A16S
ATOM	29294	O1P	G	A1386	203.474	122.465	-10.912	1.00	68.10	A16S
ATOM	29295	O2P	G	A1386	204.262	122.473	-13.368	1.00	68.10	A16S
ATOM	29296	O5*	G	A1386	203.874	124.613	-12.194	1.00	61.55	A16S
ATOM	29297	C5*	G	A1386	204.103	125.542	-11.129	1.00	61.55	A16S
ATOM	29298	C4*	G	A1386	203.889	126.955	-11.595	1.00	61.55	A16S
ATOM	29299	O4*	G	A1386	204.890	127.312	-12.574	1.00	61.55	A16S
ATOM	29300	C1*	G	A1386	204.370	128.322	-13.414	1.00	61.55	A16S
ATOM	29301	N9	G	A1386	204.473	127.918	-14.808	1.00	68.10	A16S
ATOM	29302	C4	G	A1386	204.283	128.760	-15.864	1.00	68.10	A16S
ATOM	29303	N3	G	A1386	204.015	130.073	-15.774	1.00	68.10	A16S
ATOM	29304	C2	G	A1386	203.864	130.628	-16.952	1.00	68.10	A16S
ATOM	29305	N2	G	A1386	203.606	131.934	-17.025	1.00	68.10	A16S
ATOM	29306	N1	G	A1386	203.956	129.947	-18.135	1.00	68.10	A16S
ATOM	29307	C6	G	A1386	204.227	128.591	-18.252	1.00	68.10	A16S
ATOM	29308	O6	G	A1386	204.279	128.075	-19.363	1.00	68.10	A16S
ATOM	29309	C5	G	A1386	204.406	127.983	-16.985	1.00	68.10	A16S
ATOM	29310	N7	G	A1386	204.697	126.667	-16.641	1.00	68.10	A16S
ATOM	29311	C8	G	A1386	204.731	126.678	-15.336	1.00	68.10	A16S
ATOM	29312	C2*	G	A1386	202.903	128.536	-13.051	1.00	61.55	A16S
ATOM	29313	O2*	G	A1386	202.754	129.711	-12.280	1.00	61.55	A16S
ATOM	29314	C3*	G	A1386	202.584	127.256	-12.299	1.00	61.55	A16S
ATOM	29315	O3*	G	A1386	201.510	127.450	-11.410	1.00	61.55	A16S
ATOM	29316	P	G	A1387	200.010	127.406	-11.974	1.00	58.17	A16S
ATOM	29317	O1P	G	A1387	199.145	127.268	-10.771	1.00	59.05	A16S
ATOM	29318	O2P	G	A1387	199.913	126.403	-13.070	1.00	59.05	A16S
ATOM	29319	O5*	G	A1387	199.802	128.851	-12.610	1.00	58.17	A16S
ATOM	29320	C5*	G	A1387	199.961	130.013	-11.799	1.00	58.17	A16S
ATOM	29321	C4*	G	A1387	199.708	131.254	-12.601	1.00	58.17	A16S
ATOM	29322	O4*	G	A1387	200.776	131.454	-13.556	1.00	58.17	A16S
ATOM	29323	C1*	G	A1387	200.260	132.086	-14.719	1.00	58.17	A16S
ATOM	29324	N9	G	A1387	200.466	131.180	-15.846	1.00	59.05	A16S
ATOM	29325	C4	G	A1387	200.352	131.475	-17.191	1.00	59.05	A16S
ATOM	29326	N3	G	A1387	200.018	132.666	-17.720	1.00	59.05	A16S
ATOM	29327	C2	G	A1387	199.999	132.626	-19.039	1.00	59.05	A16S
ATOM	29328	N2	G	A1387	199.678	133.716	-19.728	1.00	59.05	A16S
ATOM	29329	N1	G	A1387	200.294	131.515	-19.779	1.00	59.05	A16S
ATOM	29330	C6	G	A1387	200.643	130.283	-19.253	1.00	59.05	A16S



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ATOM	29331	O6	G	A1387	200.898	129.343	-20.004	1.00	59.05	A16S
ATOM	29332	C5	G	A1387	200.655	130.303	-17.847	1.00	59.05	A16S
ATOM	29333	N7	G	A1387	200.938	129.290	-16.942	1.00	59.05	A16S
ATOM	29334	C8	G	A1387	200.814	129.854	-15.772	1.00	59.05	A16S
ATOM	29335	C2*	G	A1387	198.772	132.353	-14.471	1.00	58.17	A16S
ATOM	29336	O2*	G	A1387	198.555	133.671	-13.973	1.00	58.17	A16S
ATOM	29337	C3*	G	A1387	198.446	131.282	-13.442	1.00	58.17	A16S
ATOM	29338	O3*	G	A1387	197.285	131.607	-12.705	1.00	58.17	A16S
ATOM	29339	P	C	A1388	195.860	131.069	-13.209	1.00	50.23	A16S
ATOM	29340	O1P	C	A1388	194.840	131.500	-12.216	1.00	71.57	A16S
ATOM	29341	O2P	C	A1388	196.016	129.622	-13.512	1.00	71.57	A16S
ATOM	29342	O5*	C	A1388	195.601	131.876	-14.559	1.00	50.23	A16S
ATOM	29343	C5*	C	A1388	195.347	133.284	-14.522	1.00	50.23	A16S
ATOM	29344	C4*	C	A1388	194.900	133.771	-15.876	1.00	50.23	A16S
ATOM	29345	O4*	C	A1388	196.033	133.807	-16.782	1.00	50.23	A16S
ATOM	29346	C1*	C	A1388	195.614	133.432	-18.091	1.00	50.23	A16S
ATOM	29347	N1	C	A1388	196.274	132.153	-18.446	1.00	71.57	A16S
ATOM	29348	C6	C	A1388	196.701	131.290	-17.476	1.00	71.57	A16S
ATOM	29349	C2	C	A1388	196.444	131.831	-19.791	1.00	71.57	A16S
ATOM	29350	O2	C	A1388	196.049	132.629	-20.650	1.00	71.57	A16S
ATOM	29351	N3	C	A1388	197.032	130.659	-20.122	1.00	71.57	A16S
ATOM	29352	C4	C	A1388	197.441	129.827	-19.165	1.00	71.57	A16S
ATOM	29353	N4	C	A1388	198.018	128.684	-19.529	1.00	71.57	A16S
ATOM	29354	C5	C	A1388	197.280	130.129	-17.790	1.00	71.57	A16S
ATOM	29355	C2*	C	A1388	194.094	133.265	-18.057	1.00	50.23	A16S
ATOM	29356	O2*	C	A1388	193.449	134.458	-18.473	1.00	50.23	A16S
ATOM	29357	C3*	C	A1388	193.869	132.907	-16.591	1.00	50.23	A16S
ATOM	29358	O3*	C	A1388	192.534	133.128	-16.161	1.00	50.23	A16S
ATOM	29359	P	C	A1389	191.434	131.970	-16.369	1.00	52.95	A16S
ATOM	29360	O1P	C	A1389	190.202	132.382	-15.649	1.00	63.05	A16S
ATOM	29361	O2P	C	A1389	192.060	130.666	-16.039	1.00	63.05	A16S
ATOM	29362	O5*	C	A1389	191.128	132.048	-17.929	1.00	52.95	A16S
ATOM	29363	C5*	C	A1389	190.495	133.202	-18.477	1.00	52.95	A16S
ATOM	29364	C4*	C	A1389	190.360	133.057	-19.963	1.00	52.95	A16S
ATOM	29365	O4*	C	A1389	191.680	133.024	-20.542	1.00	52.95	A16S
ATOM	29366	C1*	C	A1389	191.690	132.152	-21.662	1.00	52.95	A16S
ATOM	29367	N1	C	A1389	192.582	131.012	-21.376	1.00	63.05	A16S
ATOM	29368	C6	C	A1389	192.786	130.583	-20.096	1.00	63.05	A16S
ATOM	29369	C2	C	A1389	193.213	130.369	-22.437	1.00	63.05	A16S
ATOM	29370	O2	C	A1389	193.013	130.777	-23.587	1.00	63.05	A16S
ATOM	29371	N3	C	A1389	194.023	129.320	-22.187	1.00	63.05	A16S
ATOM	29372	C4	C	A1389	194.213	128.910	-20.936	1.00	63.05	A16S
ATOM	29373	N4	C	A1389	195.017	127.867	-20.730	1.00	63.05	A16S
ATOM	29374	C5	C	A1389	193.586	129.548	-19.835	1.00	63.05	A16S
ATOM	29375	C2*	C	A1389	190.264	131.670	-21.871	1.00	52.95	A16S
ATOM	29376	O2*	C	A1389	189.620	132.542	-22.774	1.00	52.95	A16S
ATOM	29377	C3*	C	A1389	189.715	131.777	-20.461	1.00	52.95	A16S
ATOM	29378	O3*	C	A1389	188.307	131.813	-20.457	1.00	52.95	A16S
ATOM	29379	P	U	A1390	187.490	130.446	-20.252	1.00	59.12	A16S
ATOM	29380	O1P	U	A1390	186.065	130.846	-20.221	1.00	53.38	A16S
ATOM	29381	O2P	U	A1390	188.073	129.674	-19.124	1.00	53.38	A16S
ATOM	29382	O5*	U	A1390	187.755	129.608	-21.577	1.00	59.12	A16S
ATOM	29383	C5*	U	A1390	187.393	130.131	-22.863	1.00	59.12	A16S
ATOM	29384	C4*	U	A1390	187.937	129.246	-23.954	1.00	59.12	A16S
ATOM	29385	O4*	U	A1390	189.385	129.200	-23.861	1.00	59.12	A16S
ATOM	29386	C1*	U	A1390	189.848	127.914	-24.244	1.00	59.12	A16S
ATOM	29387	N1	U	A1390	190.602	127.303	-23.132	1.00	53.38	A16S
ATOM	29388	C6	U	A1390	190.412	127.664	-21.824	1.00	53.38	A16S
ATOM	29389	C2	U	A1390	191.504	126.311	-23.457	1.00	53.38	A16S
ATOM	29390	O2	U	A1390	191.743	125.988	-24.600	1.00	53.38	A16S
ATOM	29391	N3	U	A1390	192.120	125.709	-22.402	1.00	53.38	A16S
ATOM	29392	C4	U	A1390	191.949	125.985	-21.082	1.00	53.38	A16S
ATOM	29393	O4	U	A1390	192.470	125.239	-20.245	1.00	53.38	A16S
ATOM	29394	C5	U	A1390	191.039	127.055	-20.815	1.00	53.38	A16S
ATOM	29395	C2*	U	A1390	188.626	127.084	-24.641	1.00	59.12	A16S
ATOM	29396	O2*	U	A1390	188.438	127.172	-26.038	1.00	59.12	A16S
ATOM	29397	C3*	U	A1390	187.524	127.789	-23.870	1.00	59.12	A16S
ATOM	29398	O3*	U	A1390	186.251	127.566	-24.430	1.00	59.12	A16S
ATOM	29399	P	U	A1391	185.357	126.364	-23.870	1.00	52.13	A16S
ATOM	29400	O1P	U	A1391	183.992	126.518	-24.428	1.00	58.37	A16S
ATOM	29401	O2P	U	A1391	185.537	126.280	-22.392	1.00	58.37	A16S
ATOM	29402	O5*	U	A1391	186.052	125.094	-24.529	1.00	52.13	A16S
ATOM	29403	C5*	U	A1391	186.015	124.886	-25.950	1.00	52.13	A16S
ATOM	29404	C4*	U	A1391	186.722	123.608	-26.301	1.00	52.13	A16S
ATOM	29405	O4*	U	A1391	188.106	123.722	-25.907	1.00	52.13	A16S
ATOM	29406	C1*	U	A1391	188.579	122.470	-25.464	1.00	52.13	A16S
ATOM	29407	N1	U	A1391	189.117	122.629	-24.103	1.00	58.37	A16S



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ATOM	29408	C6	U	A1391	188.686	123.632	-23.273	1.00	58.37	A16S
ATOM	29409	C2	U	A1391	190.088	121.732	-23.688	1.00	58.37	A16S
ATOM	29410	O2	U	A1391	190.487	120.811	-24.389	1.00	58.37	A16S
ATOM	29411	N3	U	A1391	190.572	121.947	-22.422	1.00	58.37	A16S
ATOM	29412	C4	U	A1391	190.193	122.943	-21.547	1.00	58.37	A16S
ATOM	29413	O4	U	A1391	190.778	123.057	-20.464	1.00	58.37	A16S
ATOM	29414	C5	U	A1391	189.177	123.814	-22.045	1.00	58.37	A16S
ATOM	29415	C2*	U	A1391	187.438	121.459	-25.594	1.00	52.13	A16S
ATOM	29416	O2*	U	A1391	187.581	120.765	-26.816	1.00	52.13	A16S
ATOM	29417	C3*	U	A1391	186.217	122.363	-25.596	1.00	52.13	A16S
ATOM	29418	O3*	U	A1391	185.154	121.789	-26.340	1.00	52.13	A16S
ATOM	29419	P	G	A1392	184.114	120.797	-25.617	1.00	50.06	A16S
ATOM	29420	O1P	G	A1392	183.012	120.564	-26.593	1.00	53.04	A16S
ATOM	29421	O2P	G	A1392	183.798	121.321	-24.264	1.00	53.04	A16S
ATOM	29422	O5*	G	A1392	184.943	119.455	-25.427	1.00	50.06	A16S
ATOM	29423	C5*	G	A1392	185.364	118.712	-26.565	1.00	50.06	A16S
ATOM	29424	C4*	G	A1392	186.251	117.573	-26.145	1.00	50.06	A16S
ATOM	29425	O4*	G	A1392	187.563	118.062	-25.774	1.00	50.06	A16S
ATOM	29426	C1*	G	A1392	188.087	117.264	-24.727	1.00	50.06	A16S
ATOM	29427	N9	G	A1392	188.270	118.118	-23.562	1.00	53.04	A16S
ATOM	29428	C4	G	A1392	189.152	117.926	-22.528	1.00	53.04	A16S
ATOM	29429	N3	G	A1392	190.018	116.905	-22.401	1.00	53.04	A16S
ATOM	29430	C2	G	A1392	190.757	117.022	-21.316	1.00	53.04	A16S
ATOM	29431	N2	G	A1392	191.698	116.127	-21.052	1.00	53.04	A16S
ATOM	29432	N1	G	A1392	190.638	118.035	-20.413	1.00	53.04	A16S
ATOM	29433	C6	G	A1392	189.746	119.091	-20.518	1.00	53.04	A16S
ATOM	29434	O6	G	A1392	189.715	119.962	-19.644	1.00	53.04	A16S
ATOM	29435	C5	G	A1392	188.963	118.996	-21.687	1.00	53.04	A16S
ATOM	29436	N7	G	A1392	187.974	119.843	-22.177	1.00	53.04	A16S
ATOM	29437	C8	G	A1392	187.588	119.280	-23.285	1.00	53.04	A16S
ATOM	29438	C2*	G	A1392	187.072	116.160	-24.446	1.00	50.06	A16S
ATOM	29439	O2*	G	A1392	187.373	115.049	-25.250	1.00	50.06	A16S
ATOM	29440	C3*	G	A1392	185.788	116.790	-24.938	1.00	50.06	A16S
ATOM	29441	O3*	G	A1392	184.883	115.787	-25.286	1.00	50.06	A16S
ATOM	29442	P	U	A1393	183.882	115.233	-24.173	1.00	49.29	A16S
ATOM	29443	O1P	U	A1393	183.027	114.257	-24.901	1.00	53.06	A16S
ATOM	29444	O2P	U	A1393	183.248	116.400	-23.481	1.00	53.06	A16S
ATOM	29445	O5*	U	A1393	184.815	114.468	-23.123	1.00	49.29	A16S
ATOM	29446	C5*	U	A1393	185.342	113.169	-23.424	1.00	49.29	A16S
ATOM	29447	C4*	U	A1393	186.295	112.708	-22.351	1.00	49.29	A16S
ATOM	29448	O4*	U	A1393	187.346	113.691	-22.172	1.00	49.29	A16S
ATOM	29449	C1*	U	A1393	187.801	113.675	-20.830	1.00	49.29	A16S
ATOM	29450	N1	U	A1393	187.629	115.013	-20.243	1.00	53.06	A16S
ATOM	29451	C6	U	A1393	186.814	115.939	-20.815	1.00	53.06	A16S
ATOM	29452	C2	U	A1393	188.298	115.296	-19.070	1.00	53.06	A16S
ATOM	29453	O2	U	A1393	189.069	114.512	-18.542	1.00	53.06	A16S
ATOM	29454	N3	U	A1393	188.033	116.531	-18.530	1.00	53.06	A16S
ATOM	29455	C4	U	A1393	187.186	117.490	-19.030	1.00	53.06	A16S
ATOM	29456	O4	U	A1393	186.888	118.476	-18.334	1.00	53.06	A16S
ATOM	29457	C5	U	A1393	186.574	117.133	-20.266	1.00	53.06	A16S
ATOM	29458	C2*	U	A1393	186.979	112.620	-20.093	1.00	49.29	A16S
ATOM	29459	O2*	U	A1393	187.677	111.393	-20.117	1.00	49.29	A16S
ATOM	29460	C3*	U	A1393	185.729	112.539	-20.957	1.00	49.29	A16S
ATOM	29461	O3*	U	A1393	185.083	111.291	-20.785	1.00	49.29	A16S
ATOM	29462	P	A	A1394	183.635	111.245	-20.095	1.00	43.13	A16S
ATOM	29463	O1P	A	A1394	182.677	111.348	-21.221	1.00	57.07	A16S
ATOM	29464	O2P	A	A1394	183.579	112.226	-18.993	1.00	57.07	A16S
ATOM	29465	O5*	A	A1394	183.543	109.779	-19.499	1.00	43.13	A16S
ATOM	29466	C5*	A	A1394	183.391	109.546	-18.101	1.00	43.13	A16S
ATOM	29467	C4*	A	A1394	184.142	108.299	-17.719	1.00	43.13	A16S
ATOM	29468	O4*	A	A1394	183.965	107.320	-18.781	1.00	43.13	A16S
ATOM	29469	C1*	A	A1394	185.211	107.032	-19.382	1.00	43.13	A16S
ATOM	29470	N9	A	A1394	185.028	107.013	-20.831	1.00	57.07	A16S
ATOM	29471	C4	A	A1394	185.515	106.062	-21.684	1.00	57.07	A16S
ATOM	29472	N3	A	A1394	186.246	104.980	-21.365	1.00	57.07	A16S
ATOM	29473	C2	A	A1394	186.549	104.287	-22.452	1.00	57.07	A16S
ATOM	29474	N1	A	A1394	186.228	104.532	-23.724	1.00	57.07	A16S
ATOM	29475	C6	A	A1394	185.488	105.624	-24.005	1.00	57.07	A16S
ATOM	29476	N6	A	A1394	185.160	105.866	-25.272	1.00	57.07	A16S
ATOM	29477	C5	A	A1394	185.106	106.442	-22.943	1.00	57.07	A16S
ATOM	29478	N7	A	A1394	184.373	107.615	-22.889	1.00	57.07	A16S
ATOM	29479	C8	A	A1394	184.356	107.913	-21.617	1.00	57.07	A16S
ATOM	29480	C2*	A	A1394	186.180	108.129	-18.956	1.00	43.13	A16S
ATOM	29481	O2*	A	A1394	187.504	107.640	-18.938	1.00	43.13	A16S
ATOM	29482	C3*	A	A1394	185.643	108.501	-17.581	1.00	43.13	A16S
ATOM	29483	O3*	A	A1394	186.112	107.569	-16.607	1.00	43.13	A16S
ATOM	29484	P	C	A1395	186.034	107.947	-15.046	1.00	38.27	A16S



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ATOM	29485	O1P	C	A1395	185.997	106.654	-14.259	1.00	47.46	A16S
ATOM	29486	O2P	C	A1395	184.925	108.956	-14.892	1.00	47.46	A16S
ATOM	29487	O5*	C	A1395	187.415	108.683	-14.762	1.00	38.27	A16S
ATOM	29488	C5*	C	A1395	188.648	107.961	-14.783	1.00	38.27	A16S
ATOM	29489	C4*	C	A1395	189.740	108.859	-14.299	1.00	38.27	A16S
ATOM	29490	O4*	C	A1395	189.820	109.967	-15.212	1.00	38.27	A16S
ATOM	29491	C1*	C	A1395	190.035	111.161	-14.500	1.00	38.27	A16S
ATOM	29492	N1	C	A1395	189.023	112.130	-14.920	1.00	47.46	A16S
ATOM	29493	C6	C	A1395	188.006	111.770	-15.754	1.00	47.46	A16S
ATOM	29494	C2	C	A1395	189.130	113.433	-14.468	1.00	47.46	A16S
ATOM	29495	O2	C	A1395	190.057	113.722	-13.705	1.00	47.46	A16S
ATOM	29496	N3	C	A1395	188.232	114.350	-14.869	1.00	47.46	A16S
ATOM	29497	C4	C	A1395	187.256	114.000	-15.700	1.00	47.46	A16S
ATOM	29498	N4	C	A1395	186.405	114.949	-16.092	1.00	47.46	A16S
ATOM	29499	C5	C	A1395	187.112	112.665	-16.170	1.00	47.46	A16S
ATOM	29500	C2*	C	A1395	190.088	110.846	-13.003	1.00	38.27	A16S
ATOM	29501	O2*	C	A1395	191.429	110.884	-12.563	1.00	38.27	A16S
ATOM	29502	C3*	C	A1395	189.425	109.473	-12.951	1.00	38.27	A16S
ATOM	29503	O3*	C	A1395	189.976	108.641	-11.958	1.00	38.27	A16S
ATOM	29504	P	A	A1396	189.170	108.385	-10.610	1.00	51.01	A16S
ATOM	29505	O1P	A	A1396	190.057	107.570	-9.732	1.00	39.79	A16S
ATOM	29506	O2P	A	A1396	187.808	107.878	-10.975	1.00	39.79	A16S
ATOM	29507	O5*	A	A1396	189.054	109.845	-9.975	1.00	51.01	A16S
ATOM	29508	C5*	A	A1396	190.220	110.505	-9.453	1.00	51.01	A16S
ATOM	29509	C4*	A	A1396	189.834	111.698	-8.608	1.00	51.01	A16S
ATOM	29510	O4*	A	A1396	189.308	112.752	-9.442	1.00	51.01	A16S
ATOM	29511	C1*	A	A1396	188.080	113.211	-8.927	1.00	51.01	A16S
ATOM	29512	N9	A	A1396	187.273	113.609	-10.074	1.00	39.79	A16S
ATOM	29513	C4	A	A1396	186.837	114.878	-10.349	1.00	39.79	A16S
ATOM	29514	N3	A	A1396	186.962	115.965	-9.575	1.00	39.79	A16S
ATOM	29515	C2	A	A1396	186.486	117.045	-10.203	1.00	39.79	A16S
ATOM	29516	N1	A	A1396	185.944	117.148	-11.427	1.00	39.79	A16S
ATOM	29517	C6	A	A1396	185.827	116.027	-12.172	1.00	39.79	A16S
ATOM	29518	N6	A	A1396	185.297	116.122	-13.386	1.00	39.79	A16S
ATOM	29519	C5	A	A1396	186.285	114.821	-11.616	1.00	39.79	A16S
ATOM	29520	N7	A	A1396	186.303	113.524	-12.099	1.00	39.79	A16S
ATOM	29521	C8	A	A1396	186.880	112.842	-11.139	1.00	39.79	A16S
ATOM	29522	C2*	A	A1396	187.538	112.080	-8.062	1.00	51.01	A16S
ATOM	29523	O2*	A	A1396	186.715	112.612	-7.052	1.00	51.01	A16S
ATOM	29524	C3*	A	A1396	188.826	111.489	-7.491	1.00	51.01	A16S
ATOM	29525	O3*	A	A1396	189.250	112.272	-6.385	1.00	51.01	A16S
ATOM	29526	P	C	A1397	189.411	111.588	-4.946	1.00	70.58	A16S
ATOM	29527	O1P	C	A1397	189.466	112.689	-3.956	1.00	100.34	A16S
ATOM	29528	O2P	C	A1397	188.386	110.525	-4.809	1.00	100.34	A16S
ATOM	29529	O5*	C	A1397	190.838	110.893	-5.010	1.00	75.81	A16S
ATOM	29530	C5*	C	A1397	191.980	111.586	-5.551	1.00	75.81	A16S
ATOM	29531	C4*	C	A1397	193.248	110.926	-5.076	1.00	75.81	A16S
ATOM	29532	O4*	C	A1397	193.368	111.124	-3.648	1.00	75.81	A16S
ATOM	29533	C1*	C	A1397	193.916	109.965	-3.046	1.00	75.81	A16S
ATOM	29534	N1	C	A1397	193.003	109.493	-1.991	1.00	145.28	A16S
ATOM	29535	C6	C	A1397	191.778	108.964	-2.303	1.00	145.28	A16S
ATOM	29536	C2	C	A1397	193.416	109.580	-0.648	1.00	145.28	A16S
ATOM	29537	O2	C	A1397	194.526	110.079	-0.383	1.00	145.28	A16S
ATOM	29538	N3	C	A1397	192.595	109.121	0.323	1.00	145.28	A16S
ATOM	29539	C4	C	A1397	191.406	108.600	0.004	1.00	145.28	A16S
ATOM	29540	N4	C	A1397	190.632	108.159	0.998	1.00	145.28	A16S
ATOM	29541	C5	C	A1397	190.959	108.509	-1.348	1.00	145.28	A16S
ATOM	29542	C2*	C	A1397	194.189	108.926	-4.136	1.00	75.81	A16S
ATOM	29543	O2*	C	A1397	195.570	108.892	-4.425	1.00	75.81	A16S
ATOM	29544	C3*	C	A1397	193.297	109.415	-5.269	1.00	75.81	A16S
ATOM	29545	O3*	C	A1397	193.707	109.042	-6.594	1.00	75.81	A16S
ATOM	29546	P	A	A1398	195.178	109.430	-7.152	1.00	55.47	A16S
ATOM	29547	O1P	A	A1398	195.983	108.177	-7.263	1.00	68.67	A16S
ATOM	29548	O2P	A	A1398	195.752	110.619	-6.435	1.00	68.67	A16S
ATOM	29549	O5*	A	A1398	194.856	109.936	-8.619	1.00	55.47	A16S
ATOM	29550	C5*	A	A1398	195.285	111.221	-9.035	1.00	55.47	A16S
ATOM	29551	C4*	A	A1398	194.231	111.848	-9.876	1.00	55.47	A16S
ATOM	29552	O4*	A	A1398	193.158	112.342	-9.041	1.00	55.47	A16S
ATOM	29553	C1*	A	A1398	192.608	113.516	-9.625	1.00	55.47	A16S
ATOM	29554	N9	A	A1398	192.720	114.625	-8.673	1.00	68.67	A16S
ATOM	29555	C4	A	A1398	192.057	115.827	-8.771	1.00	68.67	A16S
ATOM	29556	N3	A	A1398	191.187	116.201	-9.722	1.00	68.67	A16S
ATOM	29557	C2	A	A1398	190.748	117.434	-9.496	1.00	68.67	A16S
ATOM	29558	N1	A	A1398	191.063	118.277	-8.511	1.00	68.67	A16S
ATOM	29559	C6	A	A1398	191.948	117.879	-7.580	1.00	68.67	A16S
ATOM	29560	N6	A	A1398	192.276	118.736	-6.618	1.00	68.67	A16S
ATOM	29561	C5	A	A1398	192.476	116.582	-7.693	1.00	68.67	A16S



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ATOM	29562	N7	A	A1398	193.381	115.870	-6.919	1.00	68.67	A16S
ATOM	29563	C8	A	A1398	193.489	114.717	-7.539	1.00	68.67	A16S
ATOM	29564	C2*	A	A1398	193.404	113.807	-10.894	1.00	55.47	A16S
ATOM	29565	O2*	A	A1398	192.762	113.280	-12.039	1.00	55.47	A16S
ATOM	29566	C3*	A	A1398	194.700	113.083	-10.591	1.00	55.47	A16S
ATOM	29567	O3*	A	A1398	195.421	112.751	-11.736	1.00	55.47	A16S
ATOM	29568	P	C	A1399	196.527	113.764	-12.264	1.00	47.90	A16S
ATOM	29569	O1P	C	A1399	197.352	114.236	-11.124	1.00	63.68	A16S
ATOM	29570	O2P	C	A1399	195.812	114.743	-13.115	1.00	63.68	A16S
ATOM	29571	O5*	C	A1399	197.423	112.831	-13.184	1.00	47.90	A16S
ATOM	29572	C5*	C	A1399	198.020	111.607	-12.677	1.00	47.90	A16S
ATOM	29573	C4*	C	A1399	198.690	110.867	-13.812	1.00	47.90	A16S
ATOM	29574	O4*	C	A1399	197.664	110.320	-14.681	1.00	47.90	A16S
ATOM	29575	C1*	C	A1399	197.805	110.869	-15.968	1.00	47.90	A16S
ATOM	29576	N1	C	A1399	196.474	110.942	-16.586	1.00	63.68	A16S
ATOM	29577	C6	C	A1399	195.596	111.942	-16.282	1.00	63.68	A16S
ATOM	29578	C2	C	A1399	196.125	109.962	-17.512	1.00	63.68	A16S
ATOM	29579	O2	C	A1399	196.927	109.052	-17.745	1.00	63.68	A16S
ATOM	29580	N3	C	A1399	194.928	110.026	-18.132	1.00	63.68	A16S
ATOM	29581	C4	C	A1399	194.092	111.025	-17.857	1.00	63.68	A16S
ATOM	29582	N4	C	A1399	192.943	111.079	-18.526	1.00	63.68	A16S
ATOM	29583	C5	C	A1399	194.405	112.022	-16.891	1.00	63.68	A16S
ATOM	29584	C2*	C	A1399	198.581	112.179	-15.787	1.00	47.90	A16S
ATOM	29585	O2*	C	A1399	199.238	112.636	-16.952	1.00	47.90	A16S
ATOM	29586	C3*	C	A1399	199.549	111.782	-14.683	1.00	47.90	A16S
ATOM	29587	O3*	C	A1399	200.608	111.044	-15.281	1.00	47.90	A16S
ATOM	29588	P	C	A1400	201.964	110.772	-14.466	1.00	44.47	A16S
ATOM	29589	O1P	C	A1400	202.319	112.025	-13.739	1.00	58.95	A16S
ATOM	29590	O2P	C	A1400	202.930	110.178	-15.437	1.00	58.95	A16S
ATOM	29591	O5*	C	A1400	201.574	109.649	-13.409	1.00	44.47	A16S
ATOM	29592	C5*	C	A1400	201.207	108.343	-13.862	1.00	44.47	A16S
ATOM	29593	C4*	C	A1400	201.366	107.366	-12.745	1.00	44.47	A16S
ATOM	29594	O4*	C	A1400	202.697	107.566	-12.224	1.00	44.47	A16S
ATOM	29595	C1*	C	A1400	202.637	107.896	-10.860	1.00	44.47	A16S
ATOM	29596	N1	C	A1400	203.725	108.837	-10.584	1.00	58.95	A16S
ATOM	29597	C6	C	A1400	203.999	109.845	-11.463	1.00	58.95	A16S
ATOM	29598	C2	C	A1400	204.512	108.666	-9.423	1.00	58.95	A16S
ATOM	29599	O2	C	A1400	204.223	107.764	-8.606	1.00	58.95	A16S
ATOM	29600	N3	C	A1400	205.566	109.490	-9.228	1.00	58.95	A16S
ATOM	29601	C4	C	A1400	205.841	110.447	-10.123	1.00	58.95	A16S
ATOM	29602	N4	C	A1400	206.907	111.216	-9.913	1.00	58.95	A16S
ATOM	29603	C5	C	A1400	205.040	110.658	-11.277	1.00	58.95	A16S
ATOM	29604	C2*	C	A1400	201.226	108.407	-10.599	1.00	44.47	A16S
ATOM	29605	O2*	C	A1400	200.890	108.180	-9.245	1.00	44.47	A16S
ATOM	29606	C3*	C	A1400	200.407	107.559	-11.577	1.00	44.47	A16S
ATOM	29607	O3*	C	A1400	200.097	106.282	-11.016	1.00	44.47	A16S
ATOM	29608	P	G	A1401	198.851	105.434	-11.585	1.00	52.09	A16S
ATOM	29609	O1P	G	A1401	198.375	104.521	-10.503	1.00	65.65	A16S
ATOM	29610	O2P	G	A1401	199.251	104.864	-12.894	1.00	65.65	A16S
ATOM	29611	O5*	G	A1401	197.699	106.507	-11.868	1.00	52.09	A16S
ATOM	29612	C5*	G	A1401	197.045	107.216	-10.793	1.00	52.09	A16S
ATOM	29613	C4*	G	A1401	195.684	107.731	-11.228	1.00	52.09	A16S
ATOM	29614	O4*	G	A1401	195.818	108.660	-12.345	1.00	52.09	A16S
ATOM	29615	C1*	G	A1401	194.696	108.533	-13.209	1.00	52.09	A16S
ATOM	29616	N9	G	A1401	195.144	107.945	-14.466	1.00	65.65	A16S
ATOM	29617	C4	G	A1401	194.426	107.870	-15.634	1.00	65.65	A16S
ATOM	29618	N3	G	A1401	193.212	108.411	-15.858	1.00	65.65	A16S
ATOM	29619	C2	G	A1401	192.766	108.136	-17.074	1.00	65.65	A16S
ATOM	29620	N2	G	A1401	191.585	108.609	-17.474	1.00	65.65	A16S
ATOM	29621	N1	G	A1401	193.449	107.379	-17.989	1.00	65.65	A16S
ATOM	29622	C6	G	A1401	194.693	106.805	-17.776	1.00	65.65	A16S
ATOM	29623	O6	G	A1401	195.206	106.122	-18.655	1.00	65.65	A16S
ATOM	29624	C5	G	A1401	195.195	107.109	-16.486	1.00	65.65	A16S
ATOM	29625	N7	G	A1401	196.397	106.762	-15.887	1.00	65.65	A16S
ATOM	29626	C8	G	A1401	196.329	107.290	-14.698	1.00	65.65	A16S
ATOM	29627	C2*	G	A1401	193.732	107.544	-12.553	1.00	52.09	A16S
ATOM	29628	O2*	G	A1401	192.801	108.241	-11.753	1.00	52.09	A16S
ATOM	29629	C3*	G	A1401	194.679	106.701	-11.715	1.00	52.09	A16S
ATOM	29630	O3*	G	A1401	193.983	106.084	-10.657	1.00	52.09	A16S
ATOM	29631	P	C	A1402	193.688	104.509	-10.722	1.00	45.48	A16S
ATOM	29632	O1P	C	A1402	192.865	104.138	-9.548	1.00	60.64	A16S
ATOM	29633	O2P	C	A1402	194.999	103.838	-10.943	1.00	60.64	A16S
ATOM	29634	O5*	C	A1402	192.746	104.317	-11.989	1.00	45.48	A16S
ATOM	29635	C5*	C	A1402	191.511	105.028	-12.082	1.00	45.48	A16S
ATOM	29636	C4*	C	A1402	190.976	105.007	-13.501	1.00	45.48	A16S
ATOM	29637	O4*	C	A1402	191.952	105.550	-14.442	1.00	45.48	A16S
ATOM	29638	C1*	C	A1402	191.761	104.954	-15.715	1.00	45.48	A16S



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ATOM	29639	N1	C	A1402	193.008	104.294	-16.151	1.00	60.64	A16S
ATOM	29640	C6	C	A1402	194.002	103.988	-15.266	1.00	60.64	A16S
ATOM	29641	C2	C	A1402	193.148	103.966	-17.510	1.00	60.64	A16S
ATOM	29642	O2	C	A1402	192.248	104.287	-18.304	1.00	60.64	A16S
ATOM	29643	N3	C	A1402	194.260	103.314	-17.925	1.00	60.64	A16S
ATOM	29644	C4	C	A1402	195.215	103.003	-17.050	1.00	60.64	A16S
ATOM	29645	N4	C	A1402	196.289	102.345	-17.505	1.00	60.64	A16S
ATOM	29646	C5	C	A1402	195.113	103.349	-15.668	1.00	60.64	A16S
ATOM	29647	C2*	C	A1402	190.605	103.959	-15.594	1.00	45.48	A16S
ATOM	29648	O2*	C	A1402	189.437	104.608	-16.064	1.00	45.48	A16S
ATOM	29649	C3*	C	A1402	190.600	103.662	-14.093	1.00	45.48	A16S
ATOM	29650	O3*	C	A1402	189.335	103.222	-13.620	1.00	45.48	A16S
ATOM	29651	P	C	A1403	189.087	101.655	-13.373	1.00	67.62	A16S
ATOM	29652	O1P	C	A1403	187.666	101.429	-13.018	1.00	70.62	A16S
ATOM	29653	O2P	C	A1403	190.154	101.152	-12.472	1.00	70.62	A16S
ATOM	29654	O5*	C	A1403	189.284	101.039	-14.824	1.00	67.62	A16S
ATOM	29655	C5*	C	A1403	188.466	101.490	-15.920	1.00	67.62	A16S
ATOM	29656	C4*	C	A1403	189.015	100.978	-17.236	1.00	67.62	A16S
ATOM	29657	O4*	C	A1403	190.310	101.577	-17.494	1.00	67.62	A16S
ATOM	29658	C1*	C	A1403	191.149	100.632	-18.125	1.00	67.62	A16S
ATOM	29659	N1	C	A1403	192.312	100.402	-17.251	1.00	70.62	A16S
ATOM	29660	C6	C	A1403	192.411	101.021	-16.036	1.00	70.62	A16S
ATOM	29661	C2	C	A1403	193.317	99.529	-17.677	1.00	70.62	A16S
ATOM	29662	O2	C	A1403	193.191	98.966	-18.773	1.00	70.62	A16S
ATOM	29663	N3	C	A1403	194.392	99.311	-16.880	1.00	70.62	A16S
ATOM	29664	C4	C	A1403	194.470	99.911	-15.690	1.00	70.62	A16S
ATOM	29665	N4	C	A1403	195.535	99.655	-14.920	1.00	70.62	A16S
ATOM	29666	C5	C	A1403	193.457	100.800	-15.230	1.00	70.62	A16S
ATOM	29667	C2*	C	A1403	190.326	99.364	-18.385	1.00	67.62	A16S
ATOM	29668	O2*	C	A1403	189.808	99.424	-19.694	1.00	67.62	A16S
ATOM	29669	C3*	C	A1403	189.236	99.474	-17.326	1.00	67.62	A16S
ATOM	29670	O3*	C	A1403	188.024	98.801	-17.691	1.00	67.62	A16S
ATOM	29671	P	C	A1404	187.857	97.225	-17.393	1.00	58.07	A16S
ATOM	29672	O1P	C	A1404	186.405	96.914	-17.281	1.00	69.48	A16S
ATOM	29673	O2P	C	A1404	188.774	96.814	-16.302	1.00	69.48	A16S
ATOM	29674	O5*	C	A1404	188.388	96.569	-18.735	1.00	58.07	A16S
ATOM	29675	C5*	C	A1404	187.829	96.954	-19.997	1.00	58.07	A16S
ATOM	29676	C4*	C	A1404	188.530	96.229	-21.113	1.00	58.07	A16S
ATOM	29677	O4*	C	A1404	189.842	96.803	-21.334	1.00	58.07	A16S
ATOM	29678	C1*	C	A1404	190.759	95.779	-21.657	1.00	58.07	A16S
ATOM	29679	N1	C	A1404	191.743	95.719	-20.572	1.00	69.48	A16S
ATOM	29680	C6	C	A1404	191.413	96.139	-19.308	1.00	69.48	A16S
ATOM	29681	C2	C	A1404	193.021	95.221	-20.842	1.00	69.48	A16S
ATOM	29682	O2	C	A1404	193.292	94.846	-21.996	1.00	69.48	A16S
ATOM	29683	N3	C	A1404	193.924	95.161	-19.837	1.00	69.48	A16S
ATOM	29684	C4	C	A1404	193.587	95.573	-18.609	1.00	69.48	A16S
ATOM	29685	N4	C	A1404	194.508	95.502	-17.652	1.00	69.48	A16S
ATOM	29686	C5	C	A1404	192.291	96.080	-18.310	1.00	69.48	A16S
ATOM	29687	C2*	C	A1404	189.971	94.471	-21.768	1.00	58.07	A16S
ATOM	29688	O2*	C	A1404	189.553	94.259	-23.104	1.00	58.07	A16S
ATOM	29689	C3*	C	A1404	188.788	94.756	-20.859	1.00	58.07	A16S
ATOM	29690	O3*	C	A1404	187.660	93.961	-21.167	1.00	58.07	A16S
ATOM	29691	P	G	A1405	187.442	92.576	-20.396	1.00	64.20	A16S
ATOM	29692	O1P	G	A1405	186.017	92.211	-20.614	1.00	83.76	A16S
ATOM	29693	O2P	G	A1405	187.967	92.694	-19.013	1.00	83.76	A16S
ATOM	29694	O5*	G	A1405	188.380	91.562	-21.190	1.00	64.20	A16S
ATOM	29695	C5*	G	A1405	188.115	91.264	-22.573	1.00	64.20	A16S
ATOM	29696	C4*	G	A1405	189.288	90.558	-23.212	1.00	64.20	A16S
ATOM	29697	O4*	G	A1405	190.411	91.474	-23.334	1.00	64.20	A16S
ATOM	29698	C1*	G	A1405	191.629	90.761	-23.174	1.00	64.20	A16S
ATOM	29699	N9	G	A1405	192.253	91.203	-21.928	1.00	83.76	A16S
ATOM	29700	C4	G	A1405	193.598	91.233	-21.632	1.00	83.76	A16S
ATOM	29701	N3	G	A1405	194.603	90.888	-22.461	1.00	83.76	A16S
ATOM	29702	C2	G	A1405	195.784	91.001	-21.878	1.00	83.76	A16S
ATOM	29703	N2	G	A1405	196.888	90.689	-22.565	1.00	83.76	A16S
ATOM	29704	N1	G	A1405	195.970	91.423	-20.580	1.00	83.76	A16S
ATOM	29705	C6	G	A1405	194.951	91.777	-19.702	1.00	83.76	A16S
ATOM	29706	O6	G	A1405	195.221	92.122	-18.535	1.00	83.76	A16S
ATOM	29707	C5	G	A1405	193.674	91.665	-20.322	1.00	83.76	A16S
ATOM	29708	N7	G	A1405	192.408	91.919	-19.816	1.00	83.76	A16S
ATOM	29709	C8	G	A1405	191.601	91.638	-20.801	1.00	83.76	A16S
ATOM	29710	C2*	G	A1405	191.261	89.278	-23.083	1.00	64.20	A16S
ATOM	29711	O2*	G	A1405	191.215	88.703	-24.382	1.00	64.20	A16S
ATOM	29712	C3*	G	A1405	189.864	89.352	-22.487	1.00	64.20	A16S
ATOM	29713	O3*	G	A1405	189.149	88.143	-22.697	1.00	64.20	A16S
ATOM	29714	P	U	A1406	189.378	86.910	-21.687	1.00	68.51	A16S
ATOM	29715	O1P	U	A1406	188.232	85.978	-21.858	1.00	76.78	A16S



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ATOM	29716	O2P	U	A1406	189.698	87.429	-20.337	1.00	76.78	A16S
ATOM	29717	O5*	U	A1406	190.720	86.227	-22.209	1.00	68.51	A16S
ATOM	29718	C5*	U	A1406	190.930	85.948	-23.616	1.00	68.51	A16S
ATOM	29719	C4*	U	A1406	192.329	85.405	-23.844	1.00	68.51	A16S
ATOM	29720	O4*	U	A1406	193.325	86.451	-23.668	1.00	68.51	A16S
ATOM	29721	C1*	U	A1406	194.491	85.906	-23.067	1.00	68.51	A16S
ATOM	29722	N1	U	A1406	194.731	86.617	-21.802	1.00	76.78	A16S
ATOM	29723	C6	U	A1406	193.714	87.283	-21.160	1.00	76.78	A16S
ATOM	29724	C2	U	A1406	196.012	86.599	-21.277	1.00	76.78	A16S
ATOM	29725	O2	U	A1406	196.939	86.016	-21.811	1.00	76.78	A16S
ATOM	29726	N3	U	A1406	196.167	87.292	-20.099	1.00	76.78	A16S
ATOM	29727	C4	U	A1406	195.189	87.983	-19.406	1.00	76.78	A16S
ATOM	29728	O4	U	A1406	195.469	88.537	-18.336	1.00	76.78	A16S
ATOM	29729	C5	U	A1406	193.893	87.948	-20.016	1.00	76.78	A16S
ATOM	29730	C2*	U	A1406	194.271	84.398	-22.891	1.00	68.51	A16S
ATOM	29731	O2*	U	A1406	194.848	83.686	-23.970	1.00	68.51	A16S
ATOM	29732	C3*	U	A1406	192.750	84.302	-22.888	1.00	68.51	A16S
ATOM	29733	O3*	U	A1406	192.293	83.042	-23.338	1.00	68.51	A16S
ATOM	29734	P	C	A1407	191.795	81.964	-22.268	1.00	71.91	A16S
ATOM	29735	O1P	C	A1407	191.304	80.806	-23.051	1.00	75.76	A16S
ATOM	29736	O2P	C	A1407	190.899	82.629	-21.290	1.00	75.76	A16S
ATOM	29737	O5*	C	A1407	193.117	81.556	-21.486	1.00	71.91	A16S
ATOM	29738	C5*	C	A1407	194.133	80.766	-22.120	1.00	71.91	A16S
ATOM	29739	C4*	C	A1407	195.362	80.726	-21.255	1.00	71.91	A16S
ATOM	29740	O4*	C	A1407	195.832	82.084	-21.080	1.00	71.91	A16S
ATOM	29741	C1*	C	A1407	196.334	82.251	-19.767	1.00	71.91	A16S
ATOM	29742	N1	C	A1407	195.575	83.326	-19.101	1.00	75.76	A16S
ATOM	29743	C6	C	A1407	194.312	83.667	-19.507	1.00	75.76	A16S
ATOM	29744	C2	C	A1407	196.177	83.995	-18.029	1.00	75.76	A16S
ATOM	29745	O2	C	A1407	197.326	83.672	-17.686	1.00	75.76	A16S
ATOM	29746	N3	C	A1407	195.500	84.972	-17.397	1.00	75.76	A16S
ATOM	29747	C4	C	A1407	194.273	85.297	-17.797	1.00	75.76	A16S
ATOM	29748	N4	C	A1407	193.652	86.276	-17.138	1.00	75.76	A16S
ATOM	29749	C5	C	A1407	193.633	84.637	-18.890	1.00	75.76	A16S
ATOM	29750	C2*	C	A1407	196.221	80.910	-19.039	1.00	71.91	A16S
ATOM	29751	O2*	C	A1407	197.459	80.230	-19.067	1.00	71.91	A16S
ATOM	29752	C3*	C	A1407	195.132	80.215	-19.843	1.00	71.91	A16S
ATOM	29753	O3*	C	A1407	195.231	78.804	-19.764	1.00	71.91	A16S
ATOM	29754	P	A	A1408	194.614	78.041	-18.493	1.00	96.60	A16S
ATOM	29755	O1P	A	A1408	195.104	76.636	-18.555	1.00	95.83	A16S
ATOM	29756	O2P	A	A1408	193.149	78.305	-18.426	1.00	95.83	A16S
ATOM	29757	O5*	A	A1408	195.326	78.757	-17.258	1.00	96.60	A16S
ATOM	29758	C5*	A	A1408	196.704	78.469	-16.944	1.00	96.60	A16S
ATOM	29759	C4*	A	A1408	197.064	79.002	-15.578	1.00	96.60	A16S
ATOM	29760	O4*	A	A1408	197.158	80.442	-15.614	1.00	96.60	A16S
ATOM	29761	C1*	A	A1408	196.769	80.972	-14.361	1.00	96.60	A16S
ATOM	29762	N9	A	A1408	195.680	81.917	-14.579	1.00	95.83	A16S
ATOM	29763	C4	A	A1408	195.267	82.875	-13.690	1.00	95.83	A16S
ATOM	29764	N3	A	A1408	195.795	83.145	-12.485	1.00	95.83	A16S
ATOM	29765	C2	A	A1408	195.116	84.118	-11.888	1.00	95.83	A16S
ATOM	29766	N1	A	A1408	194.042	84.795	-12.323	1.00	95.83	A16S
ATOM	29767	C6	A	A1408	193.536	84.493	-13.539	1.00	95.83	A16S
ATOM	29768	N6	A	A1408	192.454	85.152	-13.964	1.00	95.83	A16S
ATOM	29769	C5	A	A1408	194.178	83.491	-14.279	1.00	95.83	A16S
ATOM	29770	N7	A	A1408	193.929	82.953	-15.534	1.00	95.83	A16S
ATOM	29771	C8	A	A1408	194.848	82.028	-15.666	1.00	95.83	A16S
ATOM	29772	C2*	A	A1408	196.355	79.810	-13.456	1.00	96.60	A16S
ATOM	29773	O2*	A	A1408	197.398	79.500	-12.560	1.00	96.60	A16S
ATOM	29774	C3*	A	A1408	196.074	78.707	-14.469	1.00	96.60	A16S
ATOM	29775	O3*	A	A1408	196.285	77.416	-13.933	1.00	96.60	A16S
ATOM	29776	P	C	A1409	195.047	76.610	-13.318	1.00	83.97	A16S
ATOM	29777	O1P	C	A1409	195.533	75.238	-13.023	1.00	110.77	A16S
ATOM	29778	O2P	C	A1409	193.884	76.794	-14.216	1.00	110.77	A16S
ATOM	29779	O5*	C	A1409	194.762	77.363	-11.942	1.00	83.97	A16S
ATOM	29780	C5*	C	A1409	195.740	77.339	-10.889	1.00	83.97	A16S
ATOM	29781	C4*	C	A1409	195.264	78.119	-9.687	1.00	83.97	A16S
ATOM	29782	O4*	C	A1409	195.277	79.538	-9.976	1.00	83.97	A16S
ATOM	29783	C1*	C	A1409	194.236	80.178	-9.253	1.00	83.97	A16S
ATOM	29784	N1	C	A1409	193.334	80.849	-10.210	1.00	110.77	A16S
ATOM	29785	C6	C	A1409	193.243	80.427	-11.508	1.00	110.77	A16S
ATOM	29786	C2	C	A1409	192.563	81.936	-9.766	1.00	110.77	A16S
ATOM	29787	O2	C	A1409	192.649	82.294	-8.580	1.00	110.77	A16S
ATOM	29788	N3	C	A1409	191.741	82.564	-10.640	1.00	110.77	A16S
ATOM	29789	C4	C	A1409	191.667	82.146	-11.906	1.00	110.77	A16S
ATOM	29790	N4	C	A1409	190.850	82.801	-12.736	1.00	110.77	A16S
ATOM	29791	C5	C	A1409	192.430	81.039	-12.379	1.00	110.77	A16S
ATOM	29792	C2*	C	A1409	193.519	79.114	-8.418	1.00	83.97	A16S



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ATOM	29793	O2*	C	A1409	194.025	79.116	-7.095	1.00	83.97	A16S
ATOM	29794	C3*	C	A1409	193.854	77.841	-9.186	1.00	83.97	A16S
ATOM	29795	O3*	C	A1409	193.774	76.688	-8.359	1.00	83.97	A16S
ATOM	29796	P	G	A1410	192.399	75.861	-8.289	1.00	104.18	A16S
ATOM	29797	O1P	G	A1410	192.671	74.625	-7.512	1.00	114.49	A16S
ATOM	29798	O2P	G	A1410	191.860	75.750	-9.669	1.00	114.49	A16S
ATOM	29799	O5*	G	A1410	191.433	76.799	-7.434	1.00	104.18	A16S
ATOM	29800	C5*	G	A1410	191.616	76.931	-6.007	1.00	104.18	A16S
ATOM	29801	C4*	G	A1410	190.529	77.790	-5.390	1.00	104.18	A16S
ATOM	29802	O4*	G	A1410	190.702	79.172	-5.797	1.00	104.18	A16S
ATOM	29803	C1*	G	A1410	189.434	79.796	-5.911	1.00	104.18	A16S
ATOM	29804	N9	G	A1410	189.257	80.219	-7.297	1.00	114.49	A16S
ATOM	29805	C4	G	A1410	188.317	81.105	-7.767	1.00	114.49	A16S
ATOM	29806	N3	G	A1410	187.394	81.749	-7.025	1.00	114.49	A16S
ATOM	29807	C2	G	A1410	186.638	82.542	-7.760	1.00	114.49	A16S
ATOM	29808	N2	G	A1410	185.676	83.274	-7.183	1.00	114.49	A16S
ATOM	29809	N1	G	A1410	186.771	82.685	-9.115	1.00	114.49	A16S
ATOM	29810	C6	G	A1410	187.711	82.029	-9.900	1.00	114.49	A16S
ATOM	29811	O6	G	A1410	187.743	82.229	-11.117	1.00	114.49	A16S
ATOM	29812	C5	G	A1410	188.533	81.181	-9.125	1.00	114.49	A16S
ATOM	29813	N7	G	A1410	189.585	80.361	-9.505	1.00	114.49	A16S
ATOM	29814	C8	G	A1410	189.984	79.811	-8.391	1.00	114.49	A16S
ATOM	29815	C2*	G	A1410	188.369	78.781	-5.486	1.00	104.18	A16S
ATOM	29816	O2*	G	A1410	188.015	78.977	-4.128	1.00	104.18	A16S
ATOM	29817	C3*	G	A1410	189.083	77.458	-5.739	1.00	104.18	A16S
ATOM	29818	O3*	G	A1410	188.532	76.402	-4.957	1.00	104.18	A16S
ATOM	29819	P	C	A1411	187.325	75.523	-5.557	1.00	162.34	A16S
ATOM	29820	O1P	C	A1411	187.071	74.389	-4.635	1.00	116.05	A16S
ATOM	29821	O2P	C	A1411	187.618	75.250	-6.987	1.00	116.05	A16S
ATOM	29822	O5*	C	A1411	186.070	76.503	-5.491	1.00	162.34	A16S
ATOM	29823	C5*	C	A1411	185.506	76.908	-4.223	1.00	162.34	A16S
ATOM	29824	C4*	C	A1411	184.318	77.823	-4.438	1.00	162.34	A16S
ATOM	29825	O4*	C	A1411	184.772	79.036	-5.093	1.00	162.34	A16S
ATOM	29826	C1*	C	A1411	183.792	79.476	-6.020	1.00	162.34	A16S
ATOM	29827	N1	C	A1411	184.390	79.487	-7.376	1.00	116.05	A16S
ATOM	29828	C6	C	A1411	185.471	78.701	-7.676	1.00	116.05	A16S
ATOM	29829	C2	C	A1411	183.833	80.322	-8.359	1.00	116.05	A16S
ATOM	29830	O2	C	A1411	182.854	81.029	-8.068	1.00	116.05	A16S
ATOM	29831	N3	C	A1411	184.377	80.336	-9.598	1.00	116.05	A16S
ATOM	29832	C4	C	A1411	185.432	79.565	-9.874	1.00	116.05	A16S
ATOM	29833	N4	C	A1411	185.938	79.613	-11.109	1.00	116.05	A16S
ATOM	29834	C5	C	A1411	186.018	78.710	-8.898	1.00	116.05	A16S
ATOM	29835	C2*	C	A1411	182.580	78.552	-5.894	1.00	162.34	A16S
ATOM	29836	O2*	C	A1411	181.643	79.127	-5.006	1.00	162.34	A16S
ATOM	29837	C3*	C	A1411	183.213	77.283	-5.338	1.00	162.34	A16S
ATOM	29838	O3*	C	A1411	182.273	76.477	-4.624	1.00	162.34	A16S
ATOM	29839	P	C	A1412	181.219	75.568	-5.438	1.00	154.94	A16S
ATOM	29840	O1P	C	A1412	180.452	74.747	-4.460	1.00	117.65	A16S
ATOM	29841	O2P	C	A1412	181.932	74.893	-6.557	1.00	117.65	A16S
ATOM	29842	O5*	C	A1412	180.228	76.640	-6.074	1.00	154.94	A16S
ATOM	29843	C5*	C	A1412	179.337	77.412	-5.247	1.00	154.94	A16S
ATOM	29844	C4*	C	A1412	178.396	78.209	-6.112	1.00	154.94	A16S
ATOM	29845	O4*	C	A1412	179.145	79.228	-6.824	1.00	154.94	A16S
ATOM	29846	C1*	C	A1412	178.638	79.362	-8.145	1.00	154.94	A16S
ATOM	29847	N1	C	A1412	179.712	79.016	-9.108	1.00	117.65	A16S
ATOM	29848	C6	C	A1412	180.801	78.281	-8.720	1.00	117.65	A16S
ATOM	29849	C2	C	A1412	179.596	79.455	-10.442	1.00	117.65	A16S
ATOM	29850	O2	C	A1412	178.591	80.106	-10.780	1.00	117.65	A16S
ATOM	29851	N3	C	A1412	180.580	79.154	-11.323	1.00	117.65	A16S
ATOM	29852	C4	C	A1412	181.639	78.445	-10.926	1.00	117.65	A16S
ATOM	29853	N4	C	A1412	182.586	78.183	-11.824	1.00	117.65	A16S
ATOM	29854	C5	C	A1412	181.776	77.976	-9.587	1.00	117.65	A16S
ATOM	29855	C2*	C	A1412	177.421	78.444	-8.267	1.00	154.94	A16S
ATOM	29856	O2*	C	A1412	176.238	79.167	-7.995	1.00	154.94	A16S
ATOM	29857	C3*	C	A1412	177.724	77.398	-7.207	1.00	154.94	A16S
ATOM	29858	O3*	C	A1412	176.572	76.703	-6.759	1.00	154.94	A16S
ATOM	29859	P	A	A1413	176.121	75.354	-7.516	1.00	100.11	A16S
ATOM	29860	O1P	A	A1413	175.089	74.687	-6.677	1.00	133.20	A16S
ATOM	29861	O2P	A	A1413	177.326	74.587	-7.946	1.00	133.20	A16S
ATOM	29862	O5*	A	A1413	175.395	75.890	-8.827	1.00	100.11	A16S
ATOM	29863	C5*	A	A1413	174.199	76.681	-8.727	1.00	100.11	A16S
ATOM	29864	C4*	A	A1413	173.890	77.319	-10.052	1.00	100.11	A16S
ATOM	29865	O4*	A	A1413	174.981	78.191	-10.427	1.00	100.11	A16S
ATOM	29866	C1*	A	A1413	175.150	78.159	-11.827	1.00	100.11	A16S
ATOM	29867	N9	A	A1413	176.480	77.646	-12.117	1.00	133.20	A16S
ATOM	29868	C4	A	A1413	177.070	77.664	-13.350	1.00	133.20	A16S
ATOM	29869	N3	A	A1413	176.559	78.166	-14.481	1.00	133.20	A16S



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ATOM	29870	C2	A	A1413	177.399	77.992	-15.486	1.00133.20	A16S
ATOM	29871	N1	A	A1413	178.601	77.412	-15.491	1.00133.20	A16S
ATOM	29872	C6	A	A1413	179.084	76.914	-14.334	1.00133.20	A16S
ATOM	29873	N6	A	A1413	180.282	76.324	-14.341	1.00133.20	A16S
ATOM	29874	C5	A	A1413	178.290	77.044	-13.192	1.00133.20	A16S
ATOM	29875	N7	A	A1413	178.477	76.657	-11.873	1.00133.20	A16S
ATOM	29876	C8	A	A1413	177.377	77.040	-11.278	1.00133.20	A16S
ATOM	29877	C2*	A	A1413	174.080	77.239	-12.409	1.00100.11	A16S
ATOM	29878	O2*	A	A1413	172.979	78.017	-12.817	1.00100.11	A16S
ATOM	29879	C3*	A	A1413	173.751	76.360	-11.217	1.00100.11	A16S
ATOM	29880	O3*	A	A1413	172.435	75.862	-11.297	1.00100.11	A16S
ATOM	29881	P	U	A1414	172.147	74.524	-12.125	1.00 89.59	A16S
ATOM	29882	O1P	U	A1414	170.697	74.227	-12.001	1.00104.41	A16S
ATOM	29883	O2P	U	A1414	173.149	73.502	-11.715	1.00104.41	A16S
ATOM	29884	O5*	U	A1414	172.407	74.934	-13.639	1.00 89.59	A16S
ATOM	29885	C5*	U	A1414	171.558	75.887	-14.289	1.00 89.59	A16S
ATOM	29886	C4*	U	A1414	172.141	76.283	-15.619	1.00 89.59	A16S
ATOM	29887	O4*	U	A1414	173.518	76.713	-15.434	1.00 89.59	A16S
ATOM	29888	C1*	U	A1414	174.271	76.412	-16.597	1.00 89.59	A16S
ATOM	29889	N1	U	A1414	175.463	75.619	-16.232	1.00104.41	A16S
ATOM	29890	C6	U	A1414	175.626	75.075	-14.977	1.00104.41	A16S
ATOM	29891	C2	U	A1414	176.428	75.412	-17.218	1.00104.41	A16S
ATOM	29892	O2	U	A1414	176.363	75.913	-18.329	1.00104.41	A16S
ATOM	29893	N3	U	A1414	177.476	74.604	-16.851	1.00104.41	A16S
ATOM	29894	C4	U	A1414	177.679	74.003	-15.629	1.00104.41	A16S
ATOM	29895	O4	U	A1414	178.621	73.213	-15.492	1.00104.41	A16S
ATOM	29896	C5	U	A1414	176.673	74.299	-14.651	1.00104.41	A16S
ATOM	29897	C2*	U	A1414	173.331	75.704	-17.584	1.00 89.59	A16S
ATOM	29898	O2*	U	A1414	172.826	76.640	-18.515	1.00 89.59	A16S
ATOM	29899	C3*	U	A1414	172.231	75.187	-16.666	1.00 89.59	A16S
ATOM	29900	O3*	U	A1414	171.000	75.031	-17.365	1.00 89.59	A16S
ATOM	29901	P	G	A1415	170.773	73.749	-18.313	1.00 77.32	A16S
ATOM	29902	O1P	G	A1415	169.332	73.697	-18.684	1.00141.37	A16S
ATOM	29903	O2P	G	A1415	171.410	72.568	-17.681	1.00141.37	A16S
ATOM	29904	O5*	G	A1415	171.601	74.100	-19.625	1.00 77.32	A16S
ATOM	29905	C5*	G	A1415	171.097	75.051	-20.568	1.00 77.32	A16S
ATOM	29906	C4*	G	A1415	171.890	74.989	-21.847	1.00 77.32	A16S
ATOM	29907	O4*	G	A1415	173.248	75.429	-21.589	1.00 77.32	A16S
ATOM	29908	C1*	G	A1415	174.159	74.666	-22.361	1.00 77.32	A16S
ATOM	29909	N9	G	A1415	174.966	73.868	-21.437	1.00141.37	A16S
ATOM	29910	C4	G	A1415	176.128	73.190	-21.728	1.00141.37	A16S
ATOM	29911	N3	G	A1415	176.760	73.174	-22.922	1.00141.37	A16S
ATOM	29912	C2	G	A1415	177.834	72.406	-22.902	1.00141.37	A16S
ATOM	29913	N2	G	A1415	178.578	72.280	-24.014	1.00141.37	A16S
ATOM	29914	N1	G	A1415	178.257	71.706	-21.790	1.00141.37	A16S
ATOM	29915	C6	G	A1415	177.620	71.708	-20.548	1.00141.37	A16S
ATOM	29916	O6	G	A1415	178.078	71.037	-19.607	1.00141.37	A16S
ATOM	29917	C5	G	A1415	176.470	72.530	-20.560	1.00141.37	A16S
ATOM	29918	N7	G	A1415	175.562	72.812	-19.551	1.00141.37	A16S
ATOM	29919	C8	G	A1415	174.695	73.612	-20.110	1.00141.37	A16S
ATOM	29920	C2*	G	A1415	173.318	73.781	-23.285	1.00 77.32	A16S
ATOM	29921	O2*	G	A1415	173.078	74.470	-24.496	1.00 77.32	A16S
ATOM	29922	C3*	G	A1415	172.047	73.613	-22.467	1.00 77.32	A16S
ATOM	29923	O3*	G	A1415	170.922	73.230	-23.244	1.00 77.32	A16S
ATOM	29924	P	G	A1416	170.523	71.675	-23.337	1.00 98.51	A16S
ATOM	29925	O1P	G	A1416	169.163	71.528	-23.908	1.00106.41	A16S
ATOM	29926	O2P	G	A1416	170.836	71.050	-22.030	1.00106.41	A16S
ATOM	29927	O5*	G	A1416	171.540	71.111	-24.415	1.00 98.51	A16S
ATOM	29928	C5*	G	A1416	171.619	71.706	-25.716	1.00 98.51	A16S
ATOM	29929	C4*	G	A1416	172.842	71.208	-26.435	1.00 98.51	A16S
ATOM	29930	O4*	G	A1416	174.019	71.639	-25.708	1.00 98.51	A16S
ATOM	29931	C1*	G	A1416	175.015	70.633	-25.776	1.00 98.51	A16S
ATOM	29932	N9	G	A1416	175.366	70.228	-24.418	1.00106.41	A16S
ATOM	29933	C4	G	A1416	176.331	69.320	-24.084	1.00106.41	A16S
ATOM	29934	N3	G	A1416	177.090	68.623	-24.955	1.00106.41	A16S
ATOM	29935	C2	G	A1416	177.941	67.832	-24.341	1.00106.41	A16S
ATOM	29936	N2	G	A1416	178.760	67.064	-25.067	1.00106.41	A16S
ATOM	29937	N1	G	A1416	178.048	67.737	-22.971	1.00106.41	A16S
ATOM	29938	C6	G	A1416	177.278	68.453	-22.054	1.00106.41	A16S
ATOM	29939	O6	G	A1416	177.462	68.311	-20.837	1.00106.41	A16S
ATOM	29940	C5	G	A1416	176.351	69.294	-22.705	1.00106.41	A16S
ATOM	29941	N7	G	A1416	175.396	70.153	-22.181	1.00106.41	A16S
ATOM	29942	C8	G	A1416	174.832	70.681	-23.233	1.00106.41	A16S
ATOM	29943	C2*	G	A1416	174.476	69.486	-26.634	1.00 98.51	A16S
ATOM	29944	O2*	G	A1416	174.960	69.618	-27.960	1.00 98.51	A16S
ATOM	29945	C3*	G	A1416	172.971	69.695	-26.513	1.00 98.51	A16S
ATOM	29946	O3*	G	A1416	172.253	69.161	-27.616	1.00 98.51	A16S



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ATOM	29947	P	G	A1417	171.391	67.824	-27.420	1.00136.91	A16S
ATOM	29948	O1P	G	A1417	170.831	67.484	-28.760	1.00123.21	A16S
ATOM	29949	O2P	G	A1417	170.479	68.005	-26.259	1.00123.21	A16S
ATOM	29950	O5*	G	A1417	172.473	66.736	-26.993	1.00136.91	A16S
ATOM	29951	C5*	G	A1417	173.513	66.310	-27.900	1.00136.91	A16S
ATOM	29952	C4*	G	A1417	174.466	65.379	-27.188	1.00136.91	A16S
ATOM	29953	O4*	G	A1417	175.184	66.122	-26.176	1.00136.91	A16S
ATOM	29954	C1*	G	A1417	175.314	65.338	-25.007	1.00136.91	A16S
ATOM	29955	N9	G	A1417	174.682	66.067	-23.910	1.00123.21	A16S
ATOM	29956	C4	G	A1417	174.965	65.932	-22.573	1.00123.21	A16S
ATOM	29957	N3	G	A1417	175.847	65.063	-22.035	1.00123.21	A16S
ATOM	29958	C2	G	A1417	175.917	65.176	-20.719	1.00123.21	A16S
ATOM	29959	N2	G	A1417	176.734	64.364	-20.029	1.00123.21	A16S
ATOM	29960	N1	G	A1417	175.189	66.089	-19.982	1.00123.21	A16S
ATOM	29961	C6	G	A1417	174.280	67.003	-20.510	1.00123.21	A16S
ATOM	29962	O6	G	A1417	173.692	67.800	-19.753	1.00123.21	A16S
ATOM	29963	C5	G	A1417	174.178	66.872	-21.934	1.00123.21	A16S
ATOM	29964	N7	G	A1417	173.392	67.558	-22.851	1.00123.21	A16S
ATOM	29965	C8	G	A1417	173.718	67.044	-24.006	1.00123.21	A16S
ATOM	29966	C2*	G	A1417	174.735	63.950	-25.296	1.00136.91	A16S
ATOM	29967	O2*	G	A1417	175.776	63.083	-25.689	1.00136.91	A16S
ATOM	29968	C3*	G	A1417	173.780	64.242	-26.447	1.00136.91	A16S
ATOM	29969	O3*	G	A1417	173.623	63.127	-27.317	1.00136.91	A16S
ATOM	29970	P	A	A1418	172.601	61.947	-26.939	1.00154.66	A16S
ATOM	29971	O1P	A	A1418	171.516	61.929	-27.952	1.00121.13	A16S
ATOM	29972	O2P	A	A1418	172.259	62.053	-25.495	1.00121.13	A16S
ATOM	29973	O5*	A	A1418	173.471	60.634	-27.153	1.00154.66	A16S
ATOM	29974	C5*	A	A1418	174.163	60.386	-28.399	1.00154.66	A16S
ATOM	29975	C4*	A	A1418	175.168	59.276	-28.210	1.00154.66	A16S
ATOM	29976	O4*	A	A1418	176.244	59.747	-27.360	1.00154.66	A16S
ATOM	29977	C1*	A	A1418	176.586	58.746	-26.419	1.00154.66	A16S
ATOM	29978	N9	A	A1418	176.279	59.269	-25.090	1.00121.13	A16S
ATOM	29979	C4	A	A1418	176.866	58.901	-23.906	1.00121.13	A16S
ATOM	29980	N3	A	A1418	177.833	57.987	-23.726	1.00121.13	A16S
ATOM	29981	C2	A	A1418	178.162	57.903	-22.441	1.00121.13	A16S
ATOM	29982	N1	A	A1418	177.675	58.582	-21.395	1.00121.13	A16S
ATOM	29983	C6	A	A1418	176.704	59.496	-21.613	1.00121.13	A16S
ATOM	29984	N6	A	A1418	176.223	60.181	-20.573	1.00121.13	A16S
ATOM	29985	C5	A	A1418	176.263	59.674	-22.931	1.00121.13	A16S
ATOM	29986	N7	A	A1418	175.306	60.508	-23.488	1.00121.13	A16S
ATOM	29987	C8	A	A1418	175.352	60.228	-24.766	1.00121.13	A16S
ATOM	29988	C2*	A	A1418	175.781	57.488	-26.751	1.00154.66	A16S
ATOM	29989	O2*	A	A1418	176.558	56.611	-27.538	1.00154.66	A16S
ATOM	29990	C3*	A	A1418	174.583	58.076	-27.484	1.00154.66	A16S
ATOM	29991	O3*	A	A1418	173.960	57.177	-28.392	1.00154.66	A16S
ATOM	29992	P	G	A1419	172.507	56.582	-28.048	1.00198.94	A16S
ATOM	29993	O1P	G	A1419	172.154	55.630	-29.135	1.00150.75	A16S
ATOM	29994	O2P	G	A1419	171.588	57.712	-27.733	1.00150.75	A16S
ATOM	29995	O5*	G	A1419	172.748	55.752	-26.710	1.00198.94	A16S
ATOM	29996	C5*	G	A1419	173.730	54.702	-26.664	1.00198.94	A16S
ATOM	29997	C4*	G	A1419	174.081	54.384	-25.234	1.00198.94	A16S
ATOM	29998	O4*	G	A1419	174.736	55.532	-24.636	1.00198.94	A16S
ATOM	29999	C1*	G	A1419	174.339	55.658	-23.280	1.00198.94	A16S
ATOM	30000	N9	G	A1419	173.612	56.914	-23.127	1.00150.75	A16S
ATOM	30001	C4	G	A1419	173.377	57.584	-21.949	1.00150.75	A16S
ATOM	30002	N3	G	A1419	173.806	57.210	-20.723	1.00150.75	A16S
ATOM	30003	C2	G	A1419	173.408	58.049	-19.781	1.00150.75	A16S
ATOM	30004	N2	G	A1419	173.749	57.825	-18.500	1.00150.75	A16S
ATOM	30005	N1	G	A1419	172.647	59.168	-20.023	1.00150.75	A16S
ATOM	30006	C6	G	A1419	172.194	59.574	-21.276	1.00150.75	A16S
ATOM	30007	O6	G	A1419	171.507	60.603	-21.383	1.00150.75	A16S
ATOM	30008	C5	G	A1419	172.617	58.681	-22.297	1.00150.75	A16S
ATOM	30009	N7	G	A1419	172.390	58.707	-23.667	1.00150.75	A16S
ATOM	30010	C8	G	A1419	173.001	57.646	-24.118	1.00150.75	A16S
ATOM	30011	C2*	G	A1419	173.433	54.472	-22.952	1.00198.94	A16S
ATOM	30012	O2*	G	A1419	174.188	53.429	-22.367	1.00198.94	A16S
ATOM	30013	C3*	G	A1419	172.892	54.117	-24.328	1.00198.94	A16S
ATOM	30014	O3*	G	A1419	172.419	52.782	-24.407	1.00198.94	A16S
ATOM	30015	P	C	A1420	170.926	52.451	-23.919	1.00169.33	A16S
ATOM	30016	O1P	C	A1420	170.636	51.029	-24.232	1.00196.62	A16S
ATOM	30017	O2P	C	A1420	170.021	53.516	-24.426	1.00196.62	A16S
ATOM	30018	O5*	C	A1420	171.019	52.603	-22.341	1.00169.33	A16S
ATOM	30019	C5*	C	A1420	171.840	51.717	-21.568	1.00169.33	A16S
ATOM	30020	C4*	C	A1420	171.664	52.005	-20.101	1.00169.33	A16S
ATOM	30021	O4*	C	A1420	172.252	53.295	-19.786	1.00169.33	A16S
ATOM	30022	C1*	C	A1420	171.459	53.957	-18.812	1.00169.33	A16S
ATOM	30023	N1	C	A1420	170.927	55.204	-19.402	1.00196.62	A16S



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ATOM	30024	C6	C	A1420	170.627	55.282	-20.736	1.00196.62	A16S
ATOM	30025	C2	C	A1420	170.708	56.308	-18.564	1.00196.62	A16S
ATOM	30026	O2	C	A1420	171.015	56.227	-17.363	1.00196.62	A16S
ATOM	30027	N3	C	A1420	170.168	57.434	-19.084	1.00196.62	A16S
ATOM	30028	C4	C	A1420	169.859	57.491	-20.381	1.00196.62	A16S
ATOM	30029	N4	C	A1420	169.311	58.618	-20.842	1.00196.62	A16S
ATOM	30030	C5	C	A1420	170.095	56.394	-21.262	1.00196.62	A16S
ATOM	30031	C2*	C	A1420	170.329	53.006	-18.410	1.00169.33	A16S
ATOM	30032	O2*	C	A1420	170.678	52.285	-17.243	1.00169.33	A16S
ATOM	30033	C3*	C	A1420	170.219	52.130	-19.650	1.00169.33	A16S
ATOM	30034	O3*	C	A1420	169.598	50.877	-19.415	1.00169.33	A16S
ATOM	30035	P	G	A1421	168.030	50.704	-19.725	1.00163.38	A16S
ATOM	30036	O1P	G	A1421	167.737	49.248	-19.765	1.00198.94	A16S
ATOM	30037	O2P	G	A1421	167.671	51.558	-20.890	1.00198.94	A16S
ATOM	30038	O5*	G	A1421	167.332	51.314	-18.435	1.00163.38	A16S
ATOM	30039	C5*	G	A1421	167.516	50.704	-17.149	1.00163.38	A16S
ATOM	30040	C4*	G	A1421	166.884	51.553	-16.085	1.00163.38	A16S
ATOM	30041	O4*	G	A1421	167.620	52.800	-15.967	1.00163.38	A16S
ATOM	30042	C1*	G	A1421	166.719	53.871	-15.730	1.00163.38	A16S
ATOM	30043	N9	G	A1421	166.761	54.769	-16.884	1.00198.94	A16S
ATOM	30044	C4	G	A1421	166.215	56.032	-16.963	1.00198.94	A16S
ATOM	30045	N3	G	A1421	165.574	56.685	-15.969	1.00198.94	A16S
ATOM	30046	C2	G	A1421	165.142	57.875	-16.356	1.00198.94	A16S
ATOM	30047	N2	G	A1421	164.491	58.661	-15.488	1.00198.94	A16S
ATOM	30048	N1	G	A1421	165.318	58.380	-17.622	1.00198.94	A16S
ATOM	30049	C6	G	A1421	165.971	57.726	-18.661	1.00198.94	A16S
ATOM	30050	O6	G	A1421	166.068	58.271	-19.767	1.00198.94	A16S
ATOM	30051	C5	G	A1421	166.449	56.452	-18.257	1.00198.94	A16S
ATOM	30052	N7	G	A1421	167.149	55.487	-18.970	1.00198.94	A16S
ATOM	30053	C8	G	A1421	167.317	54.513	-18.117	1.00198.94	A16S
ATOM	30054	C2*	G	A1421	165.325	53.259	-15.570	1.00163.38	A16S
ATOM	30055	O2*	G	A1421	165.058	53.006	-14.204	1.00163.38	A16S
ATOM	30056	C3*	G	A1421	165.463	51.987	-16.394	1.00163.38	A16S
ATOM	30057	O3*	G	A1421	164.497	50.993	-16.097	1.00163.38	A16S
ATOM	30058	P	G	A1422	163.152	50.914	-16.980	1.00152.27	A16S
ATOM	30059	O1P	G	A1422	162.469	49.645	-16.623	1.00193.03	A16S
ATOM	30060	O2P	G	A1422	163.487	51.191	-18.401	1.00193.03	A16S
ATOM	30061	O5*	G	A1422	162.273	52.126	-16.434	1.00152.27	A16S
ATOM	30062	C5*	G	A1422	162.012	52.259	-15.021	1.00152.27	A16S
ATOM	30063	C4*	G	A1422	161.369	53.593	-14.718	1.00152.27	A16S
ATOM	30064	O4*	G	A1422	162.301	54.673	-14.996	1.00152.27	A16S
ATOM	30065	C1*	G	A1422	161.590	55.805	-15.479	1.00152.27	A16S
ATOM	30066	N9	G	A1422	162.021	56.081	-16.849	1.00193.03	A16S
ATOM	30067	C4	G	A1422	161.842	57.260	-17.536	1.00193.03	A16S
ATOM	30068	N3	G	A1422	161.248	58.375	-17.058	1.00193.03	A16S
ATOM	30069	C2	G	A1422	161.213	59.342	-17.957	1.00193.03	A16S
ATOM	30070	N2	G	A1422	160.646	60.517	-17.648	1.00193.03	A16S
ATOM	30071	N1	G	A1422	161.728	59.227	-19.227	1.00193.03	A16S
ATOM	30072	C6	G	A1422	162.346	58.091	-19.741	1.00193.03	A16S
ATOM	30073	O6	G	A1422	162.777	58.094	-20.899	1.00193.03	A16S
ATOM	30074	C5	G	A1422	162.384	57.042	-18.787	1.00193.03	A16S
ATOM	30075	N7	G	A1422	162.895	55.756	-18.885	1.00193.03	A16S
ATOM	30076	C8	G	A1422	162.662	55.224	-17.715	1.00193.03	A16S
ATOM	30077	C2*	G	A1422	160.103	55.460	-15.435	1.00152.27	A16S
ATOM	30078	O2*	G	A1422	159.543	55.897	-14.212	1.00152.27	A16S
ATOM	30079	C3*	G	A1422	160.144	53.945	-15.541	1.00152.27	A16S
ATOM	30080	O3*	G	A1422	158.958	53.342	-15.067	1.00152.27	A16S
ATOM	30081	P	G	A1423	157.734	53.131	-16.084	1.00166.87	A16S
ATOM	30082	O1P	G	A1423	156.745	52.249	-15.414	1.00181.64	A16S
ATOM	30083	O2P	G	A1423	158.295	52.738	-17.409	1.00181.64	A16S
ATOM	30084	O5*	G	A1423	157.107	54.589	-16.225	1.00166.87	A16S
ATOM	30085	C5*	G	A1423	156.626	55.301	-15.067	1.00166.87	A16S
ATOM	30086	C4*	G	A1423	156.197	56.698	-15.450	1.00166.87	A16S
ATOM	30087	O4*	G	A1423	157.352	57.464	-15.884	1.00166.87	A16S
ATOM	30088	C1*	G	A1423	156.980	58.344	-16.935	1.00166.87	A16S
ATOM	30089	N9	G	A1423	157.742	57.992	-18.132	1.00181.64	A16S
ATOM	30090	C4	G	A1423	157.800	58.715	-19.302	1.00181.64	A16S
ATOM	30091	N3	G	A1423	157.165	59.882	-19.545	1.00181.64	A16S
ATOM	30092	C2	G	A1423	157.413	60.334	-20.763	1.00181.64	A16S
ATOM	30093	N2	G	A1423	156.865	61.487	-21.171	1.00181.64	A16S
ATOM	30094	N1	G	A1423	158.218	59.691	-21.671	1.00181.64	A16S
ATOM	30095	C6	G	A1423	158.880	58.488	-21.444	1.00181.64	A16S
ATOM	30096	O6	G	A1423	159.582	57.991	-22.335	1.00181.64	A16S
ATOM	30097	C5	G	A1423	158.625	57.991	-20.140	1.00181.64	A16S
ATOM	30098	N7	G	A1423	159.079	56.839	-19.511	1.00181.64	A16S
ATOM	30099	C8	G	A1423	158.533	56.880	-18.326	1.00181.64	A16S
ATOM	30100	C2*	G	A1423	155.475	58.191	-17.152	1.00166.87	A16S



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ATOM	30101	O2*	G	A1423	154.797	59.194	-16.423	1.00166.87	A16S
ATOM	30102	C3*	G	A1423	155.230	56.786	-16.617	1.00166.87	A16S
ATOM	30103	O3*	G	A1423	153.887	56.566	-16.224	1.00166.87	A16S
ATOM	30104	P	C	A1424	152.824	56.052	-17.314	1.00168.99	A16S
ATOM	30105	O1P	C	A1424	151.543	55.803	-16.605	1.00180.09	A16S
ATOM	30106	O2P	C	A1424	153.446	54.960	-18.114	1.00180.09	A16S
ATOM	30107	O5*	C	A1424	152.633	57.316	-18.266	1.00168.99	A16S
ATOM	30108	C5*	C	A1424	152.261	58.595	-17.719	1.00168.99	A16S
ATOM	30109	C4*	C	A1424	152.252	59.650	-18.797	1.00168.99	A16S
ATOM	30110	O4*	C	A1424	153.595	59.880	-19.287	1.00168.99	A16S
ATOM	30111	C1*	C	A1424	153.542	60.219	-20.661	1.00168.99	A16S
ATOM	30112	N1	C	A1424	154.391	59.290	-21.420	1.00180.09	A16S
ATOM	30113	C6	C	A1424	154.741	58.071	-20.910	1.00180.09	A16S
ATOM	30114	C2	C	A1424	154.838	59.680	-22.687	1.00180.09	A16S
ATOM	30115	O2	C	A1424	154.502	60.790	-23.129	1.00180.09	A16S
ATOM	30116	N3	C	A1424	155.623	58.840	-23.398	1.00180.09	A16S
ATOM	30117	C4	C	A1424	155.960	57.653	-22.890	1.00180.09	A16S
ATOM	30118	N4	C	A1424	156.739	56.855	-23.629	1.00180.09	A16S
ATOM	30119	C5	C	A1424	155.516	57.229	-21.603	1.00180.09	A16S
ATOM	30120	C2*	C	A1424	152.081	60.187	-21.109	1.00168.99	A16S
ATOM	30121	O2*	C	A1424	151.583	61.508	-21.131	1.00168.99	A16S
ATOM	30122	C3*	C	A1424	151.444	59.313	-20.036	1.00168.99	A16S
ATOM	30123	O3*	C	A1424	150.072	59.615	-19.838	1.00168.99	A16S
ATOM	30124	P	U	A1425	148.957	58.779	-20.630	1.00147.00	A16S
ATOM	30125	O1P	U	A1425	147.628	59.240	-20.150	1.00189.24	A16S
ATOM	30126	O2P	U	A1425	149.311	57.339	-20.551	1.00189.24	A16S
ATOM	30127	O5*	U	A1425	149.139	59.250	-22.137	1.00147.00	A16S
ATOM	30128	C5*	U	A1425	148.936	60.623	-22.502	1.00147.00	A16S
ATOM	30129	C4*	U	A1425	149.339	60.841	-23.935	1.00147.00	A16S
ATOM	30130	O4*	U	A1425	150.771	60.667	-24.074	1.00147.00	A16S
ATOM	30131	C1*	U	A1425	151.057	60.093	-25.337	1.00147.00	A16S
ATOM	30132	N1	U	A1425	151.823	58.852	-25.137	1.00189.24	A16S
ATOM	30133	C6	U	A1425	151.676	58.079	-24.004	1.00189.24	A16S
ATOM	30134	C2	U	A1425	152.701	58.481	-26.140	1.00189.24	A16S
ATOM	30135	O2	U	A1425	152.864	59.138	-27.151	1.00189.24	A16S
ATOM	30136	N3	U	A1425	153.382	57.310	-25.916	1.00189.24	A16S
ATOM	30137	C4	U	A1425	153.280	56.488	-24.813	1.00189.24	A16S
ATOM	30138	O4	U	A1425	153.954	55.454	-24.765	1.00189.24	A16S
ATOM	30139	C5	U	A1425	152.357	56.942	-23.813	1.00189.24	A16S
ATOM	30140	C2*	U	A1425	149.733	59.877	-26.071	1.00147.00	A16S
ATOM	30141	O2*	U	A1425	149.509	60.948	-26.962	1.00147.00	A16S
ATOM	30142	C3*	U	A1425	148.739	59.854	-24.918	1.00147.00	A16S
ATOM	30143	O3*	U	A1425	147.429	60.239	-25.302	1.00147.00	A16S
ATOM	30144	P	C	A1426	146.448	59.153	-25.963	1.00101.44	A16S
ATOM	30145	O1P	C	A1426	145.072	59.714	-25.940	1.00162.05	A16S
ATOM	30146	O2P	C	A1426	146.709	57.818	-25.368	1.00162.05	A16S
ATOM	30147	O5*	C	A1426	146.921	59.120	-27.472	1.00101.44	A16S
ATOM	30148	C5*	C	A1426	146.901	60.312	-28.246	1.00101.44	A16S
ATOM	30149	C4*	C	A1426	147.588	60.069	-29.546	1.00101.44	A16S
ATOM	30150	O4*	C	A1426	149.001	59.851	-29.317	1.00101.44	A16S
ATOM	30151	C1*	C	A1426	149.491	58.913	-30.255	1.00101.44	A16S
ATOM	30152	N1	C	A1426	150.169	57.819	-29.537	1.00162.05	A16S
ATOM	30153	C6	C	A1426	149.883	57.546	-28.227	1.00162.05	A16S
ATOM	30154	C2	C	A1426	151.138	57.069	-30.219	1.00162.05	A16S
ATOM	30155	O2	C	A1426	151.352	57.307	-31.418	1.00162.05	A16S
ATOM	30156	N3	C	A1426	151.813	56.104	-29.558	1.00162.05	A16S
ATOM	30157	C4	C	A1426	151.548	55.866	-28.273	1.00162.05	A16S
ATOM	30158	N4	C	A1426	152.266	54.924	-27.655	1.00162.05	A16S
ATOM	30159	C5	C	A1426	150.542	56.589	-27.563	1.00162.05	A16S
ATOM	30160	C2*	C	A1426	148.322	58.473	-31.136	1.00101.44	A16S
ATOM	30161	O2*	C	A1426	148.342	59.242	-32.323	1.00101.44	A16S
ATOM	30162	C3*	C	A1426	147.128	58.812	-30.255	1.00101.44	A16S
ATOM	30163	O3*	C	A1426	145.937	59.048	-30.983	1.00101.44	A16S
ATOM	30164	P	U	A1427	144.995	57.812	-31.371	1.00114.43	A16S
ATOM	30165	O1P	U	A1427	143.741	58.379	-31.926	1.00118.24	A16S
ATOM	30166	O2P	U	A1427	144.932	56.880	-30.214	1.00118.24	A16S
ATOM	30167	O5*	U	A1427	145.799	57.105	-32.546	1.00114.43	A16S
ATOM	30168	C5*	U	A1427	146.196	57.850	-33.710	1.00114.43	A16S
ATOM	30169	C4*	U	A1427	147.088	57.009	-34.583	1.00114.43	A16S
ATOM	30170	O4*	U	A1427	148.408	56.885	-33.998	1.00114.43	A16S
ATOM	30171	C1*	U	A1427	148.913	55.578	-34.228	1.00114.43	A16S
ATOM	30172	N1	U	A1427	149.144	54.932	-32.923	1.00118.24	A16S
ATOM	30173	C6	U	A1427	148.466	55.334	-31.792	1.00118.24	A16S
ATOM	30174	C2	U	A1427	150.065	53.899	-32.864	1.00118.24	A16S
ATOM	30175	O2	U	A1427	150.686	53.506	-33.836	1.00118.24	A16S
ATOM	30176	N3	U	A1427	150.231	53.341	-31.621	1.00118.24	A16S
ATOM	30177	C4	U	A1427	149.585	53.694	-30.458	1.00118.24	A16S



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ATOM	30178	O4	U	A1427	149.836	53.085	-29.420	1.00118.24	A16S
ATOM	30179	C5	U	A1427	148.650	54.766	-30.597	1.00118.24	A16S
ATOM	30180	C2*	U	A1427	147.887	54.830	-35.084	1.00114.43	A16S
ATOM	30181	O2*	U	A1427	148.221	54.924	-36.455	1.00114.43	A16S
ATOM	30182	C3*	U	A1427	146.612	55.582	-34.741	1.00114.43	A16S
ATOM	30183	O3*	U	A1427	145.601	55.477	-35.715	1.00114.43	A16S
ATOM	30184	P	A	A1428	144.399	54.448	-35.476	1.00143.13	A16S
ATOM	30185	O1P	A	A1428	143.278	54.876	-36.356	1.00105.17	A16S
ATOM	30186	O2P	A	A1428	144.173	54.323	-34.007	1.00105.17	A16S
ATOM	30187	O5*	A	A1428	145.003	53.073	-36.007	1.00143.13	A16S
ATOM	30188	C5*	A	A1428	145.544	52.976	-37.338	1.00143.13	A16S
ATOM	30189	C4*	A	A1428	146.352	51.715	-37.479	1.00143.13	A16S
ATOM	30190	O4*	A	A1428	147.604	51.845	-36.769	1.00143.13	A16S
ATOM	30191	C1*	A	A1428	147.975	50.588	-36.234	1.00143.13	A16S
ATOM	30192	N9	A	A1428	148.164	50.729	-34.791	1.00105.17	A16S
ATOM	30193	C4	A	A1428	148.982	49.950	-34.004	1.00105.17	A16S
ATOM	30194	N3	A	A1428	149.743	48.909	-34.389	1.00105.17	A16S
ATOM	30195	C2	A	A1428	150.413	48.403	-33.354	1.00105.17	A16S
ATOM	30196	N1	A	A1428	150.411	48.789	-32.077	1.00105.17	A16S
ATOM	30197	C6	A	A1428	149.634	49.837	-31.721	1.00105.17	A16S
ATOM	30198	N6	A	A1428	149.630	50.224	-30.447	1.00105.17	A16S
ATOM	30199	C5	A	A1428	148.872	50.462	-32.725	1.00105.17	A16S
ATOM	30200	N7	A	A1428	147.988	51.533	-32.698	1.00105.17	A16S
ATOM	30201	C8	A	A1428	147.595	51.647	-33.943	1.00105.17	A16S
ATOM	30202	C2*	A	A1428	146.901	49.570	-36.617	1.00143.13	A16S
ATOM	30203	O2*	A	A1428	147.328	48.866	-37.762	1.00143.13	A16S
ATOM	30204	C3*	A	A1428	145.706	50.469	-36.902	1.00143.13	A16S
ATOM	30205	O3*	A	A1428	144.802	49.888	-37.830	1.00143.13	A16S
ATOM	30206	P	C	A1429	143.499	49.116	-37.292	1.00114.34	A16S
ATOM	30207	O1P	C	A1429	142.606	48.894	-38.468	1.00107.68	A16S
ATOM	30208	O2P	C	A1429	142.983	49.850	-36.100	1.00107.68	A16S
ATOM	30209	O5*	C	A1429	144.065	47.701	-36.834	1.00114.34	A16S
ATOM	30210	C5*	C	A1429	144.573	46.792	-37.811	1.00114.34	A16S
ATOM	30211	C4*	C	A1429	145.533	45.821	-37.183	1.00114.34	A16S
ATOM	30212	O4*	C	A1429	146.637	46.529	-36.563	1.00114.34	A16S
ATOM	30213	C1*	C	A1429	147.125	45.776	-35.462	1.00114.34	A16S
ATOM	30214	N1	C	A1429	147.042	46.586	-34.231	1.00107.68	A16S
ATOM	30215	C6	C	A1429	146.110	47.581	-34.099	1.00107.68	A16S
ATOM	30216	C2	C	A1429	147.923	46.293	-33.169	1.00107.68	A16S
ATOM	30217	O2	C	A1429	148.795	45.418	-33.324	1.00107.68	A16S
ATOM	30218	N3	C	A1429	147.802	46.973	-32.007	1.00107.68	A16S
ATOM	30219	C4	C	A1429	146.867	47.918	-31.880	1.00107.68	A16S
ATOM	30220	N4	C	A1429	146.767	48.539	-30.704	1.00107.68	A16S
ATOM	30221	C5	C	A1429	145.989	48.264	-32.953	1.00107.68	A16S
ATOM	30222	C2*	C	A1429	146.255	44.527	-35.340	1.00114.34	A16S
ATOM	30223	O2*	C	A1429	146.893	43.441	-35.984	1.00114.34	A16S
ATOM	30224	C3*	C	A1429	144.989	44.968	-36.058	1.00114.34	A16S
ATOM	30225	O3*	C	A1429	144.251	43.868	-36.533	1.00114.34	A16S
ATOM	30226	P	C	A1430	143.122	43.230	-35.595	1.00 97.94	A16S
ATOM	30227	O1P	C	A1430	142.432	42.202	-36.412	1.00 86.59	A16S
ATOM	30228	O2P	C	A1430	142.340	44.346	-34.998	1.00 86.59	A16S
ATOM	30229	O5*	C	A1430	143.945	42.494	-34.445	1.00 97.94	A16S
ATOM	30230	C5*	C	A1430	144.715	41.321	-34.744	1.00 97.94	A16S
ATOM	30231	C4*	C	A1430	145.314	40.742	-33.487	1.00 97.94	A16S
ATOM	30232	O4*	C	A1430	146.299	41.655	-32.940	1.00 97.94	A16S
ATOM	30233	C1*	C	A1430	146.309	41.554	-31.526	1.00 97.94	A16S
ATOM	30234	N1	C	A1430	145.931	42.852	-30.950	1.00 86.59	A16S
ATOM	30235	C6	C	A1430	145.260	43.788	-31.690	1.00 86.59	A16S
ATOM	30236	C2	C	A1430	146.262	43.111	-29.618	1.00 86.59	A16S
ATOM	30237	O2	C	A1430	146.878	42.246	-28.974	1.00 86.59	A16S
ATOM	30238	N3	C	A1430	145.905	44.295	-29.067	1.00 86.59	A16S
ATOM	30239	C4	C	A1430	145.249	45.201	-29.798	1.00 86.59	A16S
ATOM	30240	N4	C	A1430	144.921	46.356	-29.219	1.00 86.59	A16S
ATOM	30241	C5	C	A1430	144.902	44.963	-31.158	1.00 86.59	A16S
ATOM	30242	C2*	C	A1430	145.300	40.480	-31.131	1.00 97.94	A16S
ATOM	30243	O2*	C	A1430	145.993	39.263	-30.957	1.00 97.94	A16S
ATOM	30244	C3*	C	A1430	144.362	40.488	-32.332	1.00 97.94	A16S
ATOM	30245	O3*	C	A1430	143.657	39.266	-32.469	1.00 97.94	A16S
ATOM	30246	P	C	A1431	142.268	39.064	-31.684	1.00102.60	A16S
ATOM	30247	O1P	C	A1431	141.732	37.731	-32.069	1.00 86.57	A16S
ATOM	30248	O2P	C	A1431	141.428	40.279	-31.882	1.00 86.57	A16S
ATOM	30249	O5*	C	A1431	142.703	38.990	-30.154	1.00102.60	A16S
ATOM	30250	C5*	C	A1431	143.508	37.900	-29.685	1.00102.60	A16S
ATOM	30251	C4*	C	A1431	143.725	38.006	-28.200	1.00102.60	A16S
ATOM	30252	O4*	C	A1431	144.567	39.148	-27.893	1.00102.60	A16S
ATOM	30253	C1*	C	A1431	144.180	39.702	-26.644	1.00102.60	A16S
ATOM	30254	N1	C	A1431	143.688	41.076	-26.863	1.00 86.57	A16S



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ATOM	30255	C6	C	A1431	143.345	41.512	-28.113	1.00	86.57	A16S
ATOM	30256	C2	C	A1431	143.557	41.930	-25.758	1.00	86.57	A16S
ATOM	30257	O2	C	A1431	143.886	41.516	-24.634	1.00	86.57	A16S
ATOM	30258	N3	C	A1431	143.073	43.179	-25.944	1.00	86.57	A16S
ATOM	30259	C4	C	A1431	142.731	43.586	-27.166	1.00	86.57	A16S
ATOM	30260	N4	C	A1431	142.249	44.818	-27.302	1.00	86.57	A16S
ATOM	30261	C5	C	A1431	142.867	42.746	-28.306	1.00	86.57	A16S
ATOM	30262	C2*	C	A1431	143.061	38.825	-26.091	1.00	102.60	A16S
ATOM	30263	O2*	C	A1431	143.594	37.821	-25.250	1.00	102.60	A16S
ATOM	30264	C3*	C	A1431	142.485	38.242	-27.366	1.00	102.60	A16S
ATOM	30265	O3*	C	A1431	141.747	37.073	-27.114	1.00	102.60	A16S
ATOM	30266	P	G	A1432	140.151	37.175	-27.022	1.00	92.60	A16S
ATOM	30267	O1P	G	A1432	139.652	35.820	-26.634	1.00	84.53	A16S
ATOM	30268	O2P	G	A1432	139.652	37.818	-28.272	1.00	84.53	A16S
ATOM	30269	O5*	G	A1432	139.891	38.216	-25.836	1.00	92.60	A16S
ATOM	30270	C5*	G	A1432	140.392	37.977	-24.499	1.00	92.60	A16S
ATOM	30271	C4*	G	A1432	140.153	39.185	-23.614	1.00	92.60	A16S
ATOM	30272	O4*	G	A1432	140.825	40.334	-24.188	1.00	92.60	A16S
ATOM	30273	C1*	G	A1432	140.055	41.505	-23.975	1.00	92.60	A16S
ATOM	30274	N9	G	A1432	139.692	42.046	-25.283	1.00	84.53	A16S
ATOM	30275	C4	G	A1432	139.476	43.362	-25.601	1.00	84.53	A16S
ATOM	30276	N3	G	A1432	139.586	44.407	-24.758	1.00	84.53	A16S
ATOM	30277	C2	G	A1432	139.291	45.551	-25.353	1.00	84.53	A16S
ATOM	30278	N2	G	A1432	139.349	46.700	-24.662	1.00	84.53	A16S
ATOM	30279	N1	G	A1432	138.916	45.656	-26.672	1.00	84.53	A16S
ATOM	30280	C6	G	A1432	138.794	44.587	-27.558	1.00	84.53	A16S
ATOM	30281	O6	G	A1432	138.431	44.786	-28.734	1.00	84.53	A16S
ATOM	30282	C5	G	A1432	139.114	43.362	-26.934	1.00	84.53	A16S
ATOM	30283	N7	G	A1432	139.123	42.077	-27.449	1.00	84.53	A16S
ATOM	30284	C8	G	A1432	139.475	41.330	-26.439	1.00	84.53	A16S
ATOM	30285	C2*	G	A1432	138.843	41.108	-23.127	1.00	92.60	A16S
ATOM	30286	O2*	G	A1432	139.118	41.314	-21.755	1.00	92.60	A16S
ATOM	30287	C3*	G	A1432	138.709	39.626	-23.452	1.00	92.60	A16S
ATOM	30288	O3*	G	A1432	138.079	38.919	-22.396	1.00	92.60	A16S
ATOM	30289	P	A	A1433	136.490	39.056	-22.176	1.00	72.64	A16S
ATOM	30290	O1P	A	A1433	135.858	37.733	-22.396	1.00	81.02	A16S
ATOM	30291	O2P	A	A1433	135.983	40.239	-22.918	1.00	81.02	A16S
ATOM	30292	O5*	A	A1433	136.370	39.354	-20.623	1.00	72.64	A16S
ATOM	30293	C5*	A	A1433	137.006	38.494	-19.681	1.00	72.64	A16S
ATOM	30294	C4*	A	A1433	136.904	39.079	-18.309	1.00	72.64	A16S
ATOM	30295	O4*	A	A1433	137.698	40.288	-18.233	1.00	72.64	A16S
ATOM	30296	C1*	A	A1433	137.056	41.223	-17.383	1.00	72.64	A16S
ATOM	30297	N9	A	A1433	136.800	42.439	-18.157	1.00	81.02	A16S
ATOM	30298	C4	A	A1433	136.580	43.692	-17.643	1.00	81.02	A16S
ATOM	30299	N3	A	A1433	136.580	44.053	-16.351	1.00	81.02	A16S
ATOM	30300	C2	A	A1433	136.321	45.353	-16.230	1.00	81.02	A16S
ATOM	30301	N1	A	A1433	136.076	46.264	-17.183	1.00	81.02	A16S
ATOM	30302	C6	A	A1433	136.081	45.863	-18.470	1.00	81.02	A16S
ATOM	30303	N6	A	A1433	135.826	46.763	-19.417	1.00	81.02	A16S
ATOM	30304	C5	A	A1433	136.353	44.510	-18.732	1.00	81.02	A16S
ATOM	30305	N7	A	A1433	136.446	43.790	-19.912	1.00	81.02	A16S
ATOM	30306	C8	A	A1433	136.715	42.572	-19.519	1.00	81.02	A16S
ATOM	30307	C2*	A	A1433	135.773	40.571	-16.856	1.00	72.64	A16S
ATOM	30308	O2*	A	A1433	136.003	40.002	-15.580	1.00	72.64	A16S
ATOM	30309	C3*	A	A1433	135.510	39.517	-17.921	1.00	72.64	A16S
ATOM	30310	O3*	A	A1433	134.747	38.427	-17.457	1.00	72.64	A16S
ATOM	30311	P	A	A1434	133.170	38.412	-17.730	1.00	62.59	A16S
ATOM	30312	O1P	A	A1434	132.617	37.123	-17.246	1.00	76.22	A16S
ATOM	30313	O2P	A	A1434	132.917	38.848	-19.136	1.00	76.22	A16S
ATOM	30314	O5*	A	A1434	132.627	39.544	-16.758	1.00	62.59	A16S
ATOM	30315	C5*	A	A1434	132.956	39.534	-15.358	1.00	62.59	A16S
ATOM	30316	C4*	A	A1434	132.478	40.808	-14.720	1.00	62.59	A16S
ATOM	30317	O4*	A	A1434	133.336	41.908	-15.107	1.00	62.59	A16S
ATOM	30318	C1*	A	A1434	132.557	43.075	-15.264	1.00	62.59	A16S
ATOM	30319	N9	A	A1434	132.753	43.595	-16.615	1.00	76.22	A16S
ATOM	30320	C4	A	A1434	132.734	44.920	-16.969	1.00	76.22	A16S
ATOM	30321	N3	A	A1434	132.605	45.978	-16.156	1.00	76.22	A16S
ATOM	30322	C2	A	A1434	132.588	47.107	-16.854	1.00	76.22	A16S
ATOM	30323	N1	A	A1434	132.665	47.289	-18.172	1.00	76.22	A16S
ATOM	30324	C6	A	A1434	132.786	46.205	-18.963	1.00	76.22	A16S
ATOM	30325	N6	A	A1434	132.833	46.386	-20.283	1.00	76.22	A16S
ATOM	30326	C5	A	A1434	132.843	44.945	-18.342	1.00	76.22	A16S
ATOM	30327	N7	A	A1434	132.985	43.660	-18.843	1.00	76.22	A16S
ATOM	30328	C8	A	A1434	132.936	42.899	-17.779	1.00	76.22	A16S
ATOM	30329	C2*	A	A1434	131.091	42.717	-14.990	1.00	62.59	A16S
ATOM	30330	O2*	A	A1434	130.720	43.089	-13.683	1.00	62.59	A16S
ATOM	30331	C3*	A	A1434	131.090	41.210	-15.172	1.00	62.59	A16S



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ATOM	30332	O3*	A	A1434	130.111	40.575	-14.373	1.00	62.59	A16S
ATOM	30333	P	G	A1435	128.674	40.250	-14.997	1.00	57.29	A16S
ATOM	30334	O1P	G	A1435	127.804	39.759	-13.907	1.00	77.12	A16S
ATOM	30335	O2P	G	A1435	128.871	39.422	-16.205	1.00	77.12	A16S
ATOM	30336	O5*	G	A1435	128.133	41.678	-15.448	1.00	57.29	A16S
ATOM	30337	C5*	G	A1435	127.848	42.710	-14.472	1.00	57.29	A16S
ATOM	30338	C4*	G	A1435	127.434	43.989	-15.162	1.00	57.29	A16S
ATOM	30339	O4*	G	A1435	128.584	44.569	-15.826	1.00	57.29	A16S
ATOM	30340	C1*	G	A1435	128.197	45.050	-17.103	1.00	57.29	A16S
ATOM	30341	N9	G	A1435	128.819	44.175	-18.092	1.00	77.12	A16S
ATOM	30342	C4	G	A1435	129.210	44.494	-19.376	1.00	77.12	A16S
ATOM	30343	N3	G	A1435	129.108	45.701	-19.962	1.00	77.12	A16S
ATOM	30344	C2	G	A1435	129.566	45.686	-21.202	1.00	77.12	A16S
ATOM	30345	N2	G	A1435	129.544	46.804	-21.928	1.00	77.12	A16S
ATOM	30346	N1	G	A1435	130.077	44.575	-21.825	1.00	77.12	A16S
ATOM	30347	C6	G	A1435	130.188	43.318	-21.249	1.00	77.12	A16S
ATOM	30348	O6	G	A1435	130.654	42.370	-21.909	1.00	77.12	A16S
ATOM	30349	C5	G	A1435	129.709	43.321	-19.906	1.00	77.12	A16S
ATOM	30350	N7	G	A1435	129.647	42.294	-18.974	1.00	77.12	A16S
ATOM	30351	C8	G	A1435	129.116	42.846	-17.918	1.00	77.12	A16S
ATOM	30352	C2*	G	A1435	126.665	44.975	-17.176	1.00	57.29	A16S
ATOM	30353	O2*	G	A1435	126.046	46.155	-16.688	1.00	57.29	A16S
ATOM	30354	C3*	G	A1435	126.378	43.813	-16.248	1.00	57.29	A16S
ATOM	30355	O3*	G	A1435	125.056	43.888	-15.738	1.00	57.29	A16S
ATOM	30356	P	U	A1436	123.866	43.121	-16.500	1.00	59.25	A16S
ATOM	30357	O1P	U	A1436	122.807	42.825	-15.502	1.00	85.12	A16S
ATOM	30358	O2P	U	A1436	124.450	42.013	-17.293	1.00	85.12	A16S
ATOM	30359	O5*	U	A1436	123.286	44.214	-17.504	1.00	59.25	A16S
ATOM	30360	C5*	U	A1436	122.691	45.424	-17.006	1.00	59.25	A16S
ATOM	30361	C4*	U	A1436	122.574	46.441	-18.112	1.00	59.25	A16S
ATOM	30362	O4*	U	A1436	123.901	46.816	-18.556	1.00	59.25	A16S
ATOM	30363	C1*	U	A1436	123.880	47.073	-19.948	1.00	59.25	A16S
ATOM	30364	N1	U	A1436	124.824	46.155	-20.612	1.00	85.12	A16S
ATOM	30365	C6	U	A1436	125.150	44.934	-20.065	1.00	85.12	A16S
ATOM	30366	C2	U	A1436	125.377	46.556	-21.814	1.00	85.12	A16S
ATOM	30367	O2	U	A1436	125.129	47.631	-22.334	1.00	85.12	A16S
ATOM	30368	N3	U	A1436	126.238	45.654	-22.387	1.00	85.12	A16S
ATOM	30369	C4	U	A1436	126.601	44.423	-21.895	1.00	85.12	A16S
ATOM	30370	O4	U	A1436	127.369	43.713	-22.546	1.00	85.12	A16S
ATOM	30371	C5	U	A1436	125.998	44.082	-20.648	1.00	85.12	A16S
ATOM	30372	C2*	U	A1436	122.436	46.911	-20.432	1.00	59.25	A16S
ATOM	30373	O2*	U	A1436	121.772	48.159	-20.412	1.00	59.25	A16S
ATOM	30374	C3*	U	A1436	121.854	45.988	-19.375	1.00	59.25	A16S
ATOM	30375	O3*	U	A1436	120.449	46.176	-19.287	1.00	59.25	A16S
ATOM	30376	P	C	A1437	119.475	45.353	-20.264	1.00	55.78	A16S
ATOM	30377	O1P	C	A1437	118.120	45.940	-20.123	1.00	76.33	A16S
ATOM	30378	O2P	C	A1437	119.679	43.910	-20.019	1.00	76.33	A16S
ATOM	30379	O5*	C	A1437	120.002	45.689	-21.724	1.00	55.78	A16S
ATOM	30380	C5*	C	A1437	119.719	46.963	-22.316	1.00	55.78	A16S
ATOM	30381	C4*	C	A1437	120.291	47.030	-23.700	1.00	55.78	A16S
ATOM	30382	O4*	C	A1437	121.730	46.892	-23.616	1.00	55.78	A16S
ATOM	30383	C1*	C	A1437	122.210	46.218	-24.766	1.00	55.78	A16S
ATOM	30384	N1	C	A1437	122.944	45.000	-24.358	1.00	76.33	A16S
ATOM	30385	C6	C	A1437	122.815	44.475	-23.104	1.00	76.33	A16S
ATOM	30386	C2	C	A1437	123.783	44.381	-25.296	1.00	76.33	A16S
ATOM	30387	O2	C	A1437	123.884	44.874	-26.433	1.00	76.33	A16S
ATOM	30388	N3	C	A1437	124.460	43.268	-24.946	1.00	76.33	A16S
ATOM	30389	C4	C	A1437	124.328	42.770	-23.722	1.00	76.33	A16S
ATOM	30390	N4	C	A1437	125.025	41.680	-23.422	1.00	76.33	A16S
ATOM	30391	C5	C	A1437	123.480	43.371	-22.750	1.00	76.33	A16S
ATOM	30392	C2*	C	A1437	121.005	45.905	-25.651	1.00	55.78	A16S
ATOM	30393	O2*	C	A1437	120.865	46.940	-26.600	1.00	55.78	A16S
ATOM	30394	C3*	C	A1437	119.869	45.924	-24.645	1.00	55.78	A16S
ATOM	30395	O3*	C	A1437	118.656	46.219	-25.291	1.00	55.78	A16S
ATOM	30396	P	G	A1438	117.876	45.048	-26.058	1.00	58.29	A16S
ATOM	30397	O1P	G	A1438	116.663	45.625	-26.727	1.00	68.87	A16S
ATOM	30398	O2P	G	A1438	117.730	43.929	-25.097	1.00	68.87	A16S
ATOM	30399	O5*	G	A1438	118.894	44.569	-27.180	1.00	58.29	A16S
ATOM	30400	C5*	G	A1438	118.881	45.173	-28.469	1.00	58.29	A16S
ATOM	30401	C4*	G	A1438	119.527	44.261	-29.457	1.00	58.29	A16S
ATOM	30402	O4*	G	A1438	120.907	44.063	-29.074	1.00	58.29	A16S
ATOM	30403	C1*	G	A1438	121.303	42.746	-29.410	1.00	58.29	A16S
ATOM	30404	N9	G	A1438	121.752	42.066	-28.203	1.00	68.87	A16S
ATOM	30405	C4	G	A1438	122.546	40.955	-28.163	1.00	68.87	A16S
ATOM	30406	N3	G	A1438	123.038	40.306	-29.229	1.00	68.87	A16S
ATOM	30407	C2	G	A1438	123.776	39.279	-28.872	1.00	68.87	A16S
ATOM	30408	N2	G	A1438	124.342	38.511	-29.808	1.00	68.87	A16S



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ATOM	30409	N1	G	A1438	124.019	38.924	-27.575	1.00	68.87	A16S
ATOM	30410	C6	G	A1438	123.525	39.582	-26.467	1.00	68.87	A16S
ATOM	30411	O6	G	A1438	123.814	39.186	-25.344	1.00	68.87	A16S
ATOM	30412	C5	G	A1438	122.723	40.676	-26.829	1.00	68.87	A16S
ATOM	30413	N7	G	A1438	122.040	41.588	-26.040	1.00	68.87	A16S
ATOM	30414	C8	G	A1438	121.477	42.394	-26.899	1.00	68.87	A16S
ATOM	30415	C2*	G	A1438	120.109	42.040	-30.045	1.00	58.29	A16S
ATOM	30416	O2*	G	A1438	120.227	42.097	-31.451	1.00	58.29	A16S
ATOM	30417	C3*	G	A1438	118.949	42.861	-29.507	1.00	58.29	A16S
ATOM	30418	O3*	G	A1438	117.813	42.788	-30.347	1.00	58.29	A16S
ATOM	30419	P	C	A1439	116.815	41.533	-30.219	1.00	69.24	A16S
ATOM	30420	O1P	C	A1439	115.614	41.871	-31.035	1.00	78.52	A16S
ATOM	30421	O2P	C	A1439	116.665	41.149	-28.788	1.00	78.52	A16S
ATOM	30422	O5*	C	A1439	117.578	40.339	-30.931	1.00	69.24	A16S
ATOM	30423	C5*	C	A1439	117.691	40.304	-32.346	1.00	69.24	A16S
ATOM	30424	C4*	C	A1439	118.546	39.147	-32.752	1.00	69.24	A16S
ATOM	30425	O4*	C	A1439	119.842	39.279	-32.112	1.00	69.24	A16S
ATOM	30426	C1*	C	A1439	120.332	37.996	-31.761	1.00	69.24	A16S
ATOM	30427	N1	C	A1439	120.504	37.932	-30.293	1.00	78.52	A16S
ATOM	30428	C6	C	A1439	119.916	38.850	-29.465	1.00	78.52	A16S
ATOM	30429	C2	C	A1439	121.284	36.900	-29.755	1.00	78.52	A16S
ATOM	30430	O2	C	A1439	121.806	36.072	-30.529	1.00	78.52	A16S
ATOM	30431	N3	C	A1439	121.451	36.827	-28.411	1.00	78.52	A16S
ATOM	30432	C4	C	A1439	120.881	37.732	-27.619	1.00	78.52	A16S
ATOM	30433	N4	C	A1439	121.087	37.629	-26.312	1.00	78.52	A16S
ATOM	30434	C5	C	A1439	120.078	38.788	-28.135	1.00	78.52	A16S
ATOM	30435	C2*	C	A1439	119.319	36.967	-32.262	1.00	69.24	A16S
ATOM	30436	O2*	C	A1439	119.694	36.507	-33.547	1.00	69.24	A16S
ATOM	30437	C3*	C	A1439	118.046	37.794	-32.290	1.00	69.24	A16S
ATOM	30438	O3*	C	A1439	117.053	37.246	-33.131	1.00	69.24	A16S
ATOM	30439	P	C	A1440	115.937	36.287	-32.488	1.00	73.46	A16S
ATOM	30440	O1P	C	A1440	114.991	35.885	-33.565	1.00	77.53	A16S
ATOM	30441	O2P	C	A1440	115.419	36.952	-31.256	1.00	77.53	A16S
ATOM	30442	O5*	C	A1440	116.763	35.000	-32.056	1.00	73.46	A16S
ATOM	30443	C5*	C	A1440	117.403	34.202	-33.047	1.00	73.46	A16S
ATOM	30444	C4*	C	A1440	118.174	33.085	-32.406	1.00	73.46	A16S
ATOM	30445	O4*	C	A1440	119.224	33.627	-31.572	1.00	73.46	A16S
ATOM	30446	C1*	C	A1440	119.473	32.744	-30.496	1.00	73.46	A16S
ATOM	30447	N1	C	A1440	119.232	33.452	-29.237	1.00	77.53	A16S
ATOM	30448	C6	C	A1440	118.563	34.641	-29.215	1.00	77.53	A16S
ATOM	30449	C2	C	A1440	119.684	32.872	-28.048	1.00	77.53	A16S
ATOM	30450	O2	C	A1440	120.310	31.802	-28.097	1.00	77.53	A16S
ATOM	30451	N3	C	A1440	119.430	33.484	-26.880	1.00	77.53	A16S
ATOM	30452	C4	C	A1440	118.758	34.632	-26.867	1.00	77.53	A16S
ATOM	30453	N4	C	A1440	118.502	35.190	-25.681	1.00	77.53	A16S
ATOM	30454	C5	C	A1440	118.307	35.258	-28.064	1.00	77.53	A16S
ATOM	30455	C2*	C	A1440	118.519	31.562	-30.633	1.00	73.46	A16S
ATOM	30456	O2*	C	A1440	119.204	30.506	-31.276	1.00	73.46	A16S
ATOM	30457	C3*	C	A1440	117.407	32.161	-31.480	1.00	73.46	A16S
ATOM	30458	O3*	C	A1440	116.704	31.163	-32.199	1.00	73.46	A16S
ATOM	30459	P	G	A1441	115.313	30.610	-31.625	1.00	70.39	A16S
ATOM	30460	O1P	G	A1441	114.974	29.422	-32.439	1.00	84.88	A16S
ATOM	30461	O2P	G	A1441	114.339	31.727	-31.524	1.00	84.88	A16S
ATOM	30462	O5*	G	A1441	115.694	30.114	-30.167	1.00	70.39	A16S
ATOM	30463	C5*	G	A1441	116.573	29.004	-29.991	1.00	70.39	A16S
ATOM	30464	C4*	G	A1441	116.852	28.791	-28.528	1.00	70.39	A16S
ATOM	30465	O4*	G	A1441	117.586	29.931	-28.003	1.00	70.39	A16S
ATOM	30466	C1*	G	A1441	117.161	30.205	-26.678	1.00	70.39	A16S
ATOM	30467	N9	G	A1441	116.557	31.535	-26.666	1.00	84.88	A16S
ATOM	30468	C4	G	A1441	116.443	32.374	-25.591	1.00	84.88	A16S
ATOM	30469	N3	G	A1441	116.886	32.123	-24.350	1.00	84.88	A16S
ATOM	30470	C2	G	A1441	116.634	33.121	-23.532	1.00	84.88	A16S
ATOM	30471	N2	G	A1441	117.006	33.035	-22.255	1.00	84.88	A16S
ATOM	30472	N1	G	A1441	115.999	34.281	-23.900	1.00	84.88	A16S
ATOM	30473	C6	G	A1441	115.527	34.563	-25.174	1.00	84.88	A16S
ATOM	30474	O6	G	A1441	114.956	35.651	-25.406	1.00	84.88	A16S
ATOM	30475	C5	G	A1441	115.792	33.493	-26.065	1.00	84.88	A16S
ATOM	30476	N7	G	A1441	115.504	33.360	-27.413	1.00	84.88	A16S
ATOM	30477	C8	G	A1441	115.977	32.188	-27.728	1.00	84.88	A16S
ATOM	30478	C2*	G	A1441	116.168	29.105	-26.281	1.00	70.39	A16S
ATOM	30479	O2*	G	A1441	116.867	28.063	-25.627	1.00	70.39	A16S
ATOM	30480	C3*	G	A1441	115.623	28.671	-27.640	1.00	70.39	A16S
ATOM	30481	O3*	G	A1441	115.115	27.340	-27.635	1.00	70.39	A16S
ATOM	30482	P	G	A1442	113.604	27.051	-28.118	1.00	120.07	A16S
ATOM	30483	O1P	G	A1442	113.202	28.047	-29.144	1.00	123.38	A16S
ATOM	30484	O2P	G	A1442	112.766	26.874	-26.905	1.00	123.38	A16S
ATOM	30485	O5*	G	A1442	113.742	25.633	-28.828	1.00	120.07	A16S



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ATOM	30486	C5*	G	A1442	113.444	25.454	-30.226	1.00120.07	A16S
ATOM	30487	C4*	G	A1442	114.516	24.615	-30.897	1.00120.07	A16S
ATOM	30488	O4*	G	A1442	115.661	25.441	-31.234	1.00120.07	A16S
ATOM	30489	C1*	G	A1442	116.848	24.671	-31.156	1.00120.07	A16S
ATOM	30490	N9	G	A1442	117.741	25.328	-30.205	1.00123.38	A16S
ATOM	30491	C4	G	A1442	118.028	24.923	-28.922	1.00123.38	A16S
ATOM	30492	N3	G	A1442	117.583	23.795	-28.331	1.00123.38	A16S
ATOM	30493	C2	G	A1442	118.008	23.684	-27.088	1.00123.38	A16S
ATOM	30494	N2	G	A1442	117.679	22.594	-26.373	1.00123.38	A16S
ATOM	30495	N1	G	A1442	118.791	24.627	-26.459	1.00123.38	A16S
ATOM	30496	C6	G	A1442	119.257	25.800	-27.044	1.00123.38	A16S
ATOM	30497	O6	G	A1442	119.943	26.586	-26.382	1.00123.38	A16S
ATOM	30498	C5	G	A1442	118.831	25.912	-28.397	1.00123.38	A16S
ATOM	30499	N7	G	A1442	119.089	26.891	-29.345	1.00123.38	A16S
ATOM	30500	C8	G	A1442	118.429	26.499	-30.401	1.00123.38	A16S
ATOM	30501	C2*	G	A1442	116.448	23.237	-30.785	1.00120.07	A16S
ATOM	30502	O2*	G	A1442	116.378	22.459	-31.966	1.00120.07	A16S
ATOM	30503	C3*	G	A1442	115.093	23.446	-30.105	1.00120.07	A16S
ATOM	30504	O3*	G	A1442	114.265	22.271	-30.152	1.00120.07	A16S
ATOM	30505	P	G	A1443	113.822	21.531	-28.780	1.00139.46	A16S
ATOM	30506	O1P	G	A1443	112.388	21.850	-28.558	1.00111.69	A16S
ATOM	30507	O2P	G	A1443	114.817	21.783	-27.691	1.00111.69	A16S
ATOM	30508	O5*	G	A1443	113.868	19.984	-29.144	1.00139.46	A16S
ATOM	30509	C5*	G	A1443	114.600	19.051	-28.330	1.00139.46	A16S
ATOM	30510	C4*	G	A1443	114.539	17.686	-28.954	1.00139.46	A16S
ATOM	30511	O4*	G	A1443	113.158	17.272	-28.969	1.00139.46	A16S
ATOM	30512	C1*	G	A1443	112.891	16.562	-30.152	1.00139.46	A16S
ATOM	30513	N9	G	A1443	111.663	17.095	-30.726	1.00111.69	A16S
ATOM	30514	C4	G	A1443	110.548	16.364	-31.010	1.00111.69	A16S
ATOM	30515	N3	G	A1443	110.427	15.035	-30.857	1.00111.69	A16S
ATOM	30516	C2	G	A1443	109.223	14.612	-31.173	1.00111.69	A16S
ATOM	30517	N2	G	A1443	108.935	13.306	-31.069	1.00111.69	A16S
ATOM	30518	N1	G	A1443	108.211	15.434	-31.613	1.00111.69	A16S
ATOM	30519	C6	G	A1443	108.313	16.811	-31.781	1.00111.69	A16S
ATOM	30520	O6	G	A1443	107.333	17.461	-32.175	1.00111.69	A16S
ATOM	30521	C5	G	A1443	109.608	17.276	-31.444	1.00111.69	A16S
ATOM	30522	N7	G	A1443	110.139	18.559	-31.461	1.00111.69	A16S
ATOM	30523	C8	G	A1443	111.365	18.403	-31.037	1.00111.69	A16S
ATOM	30524	C2*	G	A1443	114.153	16.524	-31.015	1.00139.46	A16S
ATOM	30525	O2*	G	A1443	114.734	15.243	-30.880	1.00139.46	A16S
ATOM	30526	C3*	G	A1443	114.992	17.647	-30.405	1.00139.46	A16S
ATOM	30527	O3*	G	A1443	116.388	17.348	-30.448	1.00139.46	A16S
ATOM	30528	P	A	A1446	117.436	18.461	-30.946	1.00138.94	A16S
ATOM	30529	O1P	A	A1446	116.678	19.673	-31.350	1.00195.87	A16S
ATOM	30530	O2P	A	A1446	118.369	17.826	-31.909	1.00195.87	A16S
ATOM	30531	O5*	A	A1446	118.265	18.818	-29.639	1.00138.94	A16S
ATOM	30532	C5*	A	A1446	117.621	19.397	-28.511	1.00138.94	A16S
ATOM	30533	C4*	A	A1446	118.482	19.230	-27.303	1.00138.94	A16S
ATOM	30534	O4*	A	A1446	119.711	19.959	-27.499	1.00138.94	A16S
ATOM	30535	C1*	A	A1446	120.220	20.352	-26.242	1.00138.94	A16S
ATOM	30536	N9	A	A1446	120.740	21.719	-26.328	1.00195.87	A16S
ATOM	30537	C4	A	A1446	121.084	22.397	-27.475	1.00195.87	A16S
ATOM	30538	N3	A	A1446	120.975	21.964	-28.744	1.00195.87	A16S
ATOM	30539	C2	A	A1446	121.421	22.885	-29.594	1.00195.87	A16S
ATOM	30540	N1	A	A1446	121.928	24.098	-29.341	1.00195.87	A16S
ATOM	30541	C6	A	A1446	122.025	24.503	-28.056	1.00195.87	A16S
ATOM	30542	N6	A	A1446	122.533	25.711	-27.802	1.00195.87	A16S
ATOM	30543	C5	A	A1446	121.582	23.618	-27.056	1.00195.87	A16S
ATOM	30544	N7	A	A1446	121.532	23.721	-25.672	1.00195.87	A16S
ATOM	30545	C8	A	A1446	121.022	22.577	-25.289	1.00195.87	A16S
ATOM	30546	C2*	A	A1446	119.154	20.076	-25.178	1.00138.94	A16S
ATOM	30547	O2*	A	A1446	119.553	18.958	-24.411	1.00138.94	A16S
ATOM	30548	C3*	A	A1446	117.911	19.800	-26.022	1.00138.94	A16S
ATOM	30549	O3*	A	A1446	117.065	18.833	-25.416	1.00138.94	A16S
ATOM	30550	P	G	A1447	115.995	19.287	-24.307	1.00 82.20	A16S
ATOM	30551	O1P	G	A1447	114.885	18.296	-24.316	1.00 92.87	A16S
ATOM	30552	O2P	G	A1447	115.688	20.736	-24.528	1.00 92.87	A16S
ATOM	30553	O5*	G	A1447	116.755	19.101	-22.917	1.00 82.20	A16S
ATOM	30554	C5*	G	A1447	116.049	19.269	-21.685	1.00 82.20	A16S
ATOM	30555	C4*	G	A1447	116.956	19.837	-20.626	1.00 82.20	A16S
ATOM	30556	O4*	G	A1447	117.852	20.824	-21.187	1.00 82.20	A16S
ATOM	30557	C1*	G	A1447	117.933	21.951	-20.328	1.00 82.20	A16S
ATOM	30558	N9	G	A1447	117.384	23.096	-21.057	1.00 92.87	A16S
ATOM	30559	C4	G	A1447	117.054	24.330	-20.545	1.00 92.87	A16S
ATOM	30560	N3	G	A1447	117.191	24.717	-19.264	1.00 92.87	A16S
ATOM	30561	C2	G	A1447	116.775	25.954	-19.079	1.00 92.87	A16S
ATOM	30562	N2	G	A1447	116.835	26.497	-17.859	1.00 92.87	A16S



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ATOM	30563	N1	G	A1447	116.268	26.751	-20.077	1.00	92.87	A16S
ATOM	30564	C6	G	A1447	116.119	26.372	-21.406	1.00	92.87	A16S
ATOM	30565	O6	G	A1447	115.646	27.168	-22.232	1.00	92.87	A16S
ATOM	30566	C5	G	A1447	116.558	25.049	-21.615	1.00	92.87	A16S
ATOM	30567	N7	G	A1447	116.582	24.290	-22.772	1.00	92.87	A16S
ATOM	30568	C8	G	A1447	117.081	23.145	-22.397	1.00	92.87	A16S
ATOM	30569	C2*	G	A1447	117.152	21.615	-19.053	1.00	82.20	A16S
ATOM	30570	O2*	G	A1447	118.020	21.122	-18.054	1.00	82.20	A16S
ATOM	30571	C3*	G	A1447	116.170	20.576	-19.569	1.00	82.20	A16S
ATOM	30572	O3*	G	A1447	115.702	19.667	-18.605	1.00	82.20	A16S
ATOM	30573	P	C	A1448	114.129	19.440	-18.457	1.00	89.74	A16S
ATOM	30574	O1P	C	A1448	113.929	18.095	-17.880	1.00	83.51	A16S
ATOM	30575	O2P	C	A1448	113.481	19.782	-19.745	1.00	83.51	A16S
ATOM	30576	O5*	C	A1448	113.726	20.527	-17.370	1.00	89.74	A16S
ATOM	30577	C5*	C	A1448	114.311	20.489	-16.054	1.00	89.74	A16S
ATOM	30578	C4*	C	A1448	114.068	21.789	-15.325	1.00	89.74	A16S
ATOM	30579	O4*	C	A1448	114.871	22.845	-15.913	1.00	89.74	A16S
ATOM	30580	C1*	C	A1448	114.158	24.072	-15.858	1.00	89.74	A16S
ATOM	30581	N1	C	A1448	113.918	24.530	-17.241	1.00	83.51	A16S
ATOM	30582	C6	C	A1448	114.223	23.727	-18.303	1.00	83.51	A16S
ATOM	30583	C2	C	A1448	113.354	25.794	-17.454	1.00	83.51	A16S
ATOM	30584	O2	C	A1448	113.099	26.519	-16.475	1.00	83.51	A16S
ATOM	30585	N3	C	A1448	113.098	26.193	-18.719	1.00	83.51	A16S
ATOM	30586	C4	C	A1448	113.384	25.390	-19.742	1.00	83.51	A16S
ATOM	30587	N4	C	A1448	113.101	25.816	-20.970	1.00	83.51	A16S
ATOM	30588	C5	C	A1448	113.972	24.113	-19.555	1.00	83.51	A16S
ATOM	30589	C2*	C	A1448	112.845	23.806	-15.115	1.00	89.74	A16S
ATOM	30590	O2*	C	A1448	112.989	24.091	-13.735	1.00	89.74	A16S
ATOM	30591	C3*	C	A1448	112.649	22.323	-15.372	1.00	89.74	A16S
ATOM	30592	O3*	C	A1448	111.800	21.723	-14.417	1.00	89.74	A16S
ATOM	30593	P	C	A1449	110.268	21.442	-14.804	1.00	73.88	A16S
ATOM	30594	O1P	C	A1449	109.663	20.643	-13.712	1.00	98.49	A16S
ATOM	30595	O2P	C	A1449	110.221	20.936	-16.200	1.00	98.49	A16S
ATOM	30596	O5*	C	A1449	109.601	22.885	-14.799	1.00	73.88	A16S
ATOM	30597	C5*	C	A1449	109.510	23.656	-13.587	1.00	73.88	A16S
ATOM	30598	C4*	C	A1449	108.740	24.926	-13.841	1.00	73.88	A16S
ATOM	30599	O4*	C	A1449	109.558	25.871	-14.570	1.00	73.88	A16S
ATOM	30600	C1*	C	A1449	108.743	26.615	-15.457	1.00	73.88	A16S
ATOM	30601	N1	C	A1449	109.199	26.386	-16.832	1.00	98.49	A16S
ATOM	30602	C6	C	A1449	109.969	25.307	-17.154	1.00	98.49	A16S
ATOM	30603	C2	C	A1449	108.808	27.289	-17.813	1.00	98.49	A16S
ATOM	30604	O2	C	A1449	108.130	28.271	-17.482	1.00	98.49	A16S
ATOM	30605	N3	C	A1449	109.174	27.074	-19.094	1.00	98.49	A16S
ATOM	30606	C4	C	A1449	109.908	26.006	-19.402	1.00	98.49	A16S
ATOM	30607	N4	C	A1449	110.231	25.816	-20.678	1.00	98.49	A16S
ATOM	30608	C5	C	A1449	110.339	25.080	-18.415	1.00	98.49	A16S
ATOM	30609	C2*	C	A1449	107.305	26.145	-15.281	1.00	73.88	A16S
ATOM	30610	O2*	C	A1449	106.653	27.003	-14.376	1.00	73.88	A16S
ATOM	30611	C3*	C	A1449	107.512	24.756	-14.710	1.00	73.88	A16S
ATOM	30612	O3*	C	A1449	106.401	24.309	-13.976	1.00	73.88	A16S
ATOM	30613	P	U	A1450	105.260	23.482	-14.732	1.00	63.50	A16S
ATOM	30614	O1P	U	A1450	104.285	22.978	-13.729	1.00	75.58	A16S
ATOM	30615	O2P	U	A1450	105.959	22.516	-15.633	1.00	75.58	A16S
ATOM	30616	O5*	U	A1450	104.538	24.593	-15.620	1.00	63.50	A16S
ATOM	30617	C5*	U	A1450	103.713	25.611	-15.014	1.00	63.50	A16S
ATOM	30618	C4*	U	A1450	103.151	26.528	-16.077	1.00	63.50	A16S
ATOM	30619	O4*	U	A1450	104.252	27.169	-16.771	1.00	63.50	A16S
ATOM	30620	C1*	U	A1450	103.923	27.350	-18.134	1.00	63.50	A16S
ATOM	30621	N1	U	A1450	104.890	26.600	-18.949	1.00	75.58	A16S
ATOM	30622	C6	U	A1450	105.740	25.688	-18.372	1.00	75.58	A16S
ATOM	30623	C2	U	A1450	104.911	26.828	-20.324	1.00	75.58	A16S
ATOM	30624	O2	U	A1450	104.201	27.653	-20.881	1.00	75.58	A16S
ATOM	30625	N3	U	A1450	105.804	26.057	-21.022	1.00	75.58	A16S
ATOM	30626	C4	U	A1450	106.671	25.115	-20.505	1.00	75.58	A16S
ATOM	30627	O4	U	A1450	107.401	24.476	-21.269	1.00	75.58	A16S
ATOM	30628	C5	U	A1450	106.606	24.960	-19.080	1.00	75.58	A16S
ATOM	30629	C2*	U	A1450	102.486	26.868	-18.327	1.00	63.50	A16S
ATOM	30630	O2*	U	A1450	101.625	27.979	-18.200	1.00	63.50	A16S
ATOM	30631	C3*	U	A1450	102.334	25.873	-17.183	1.00	63.50	A16S
ATOM	30632	O3*	U	A1450	100.971	25.675	-16.796	1.00	63.50	A16S
ATOM	30633	P	A	A1451	99.947	24.925	-17.793	1.00	61.94	A16S
ATOM	30634	O1P	A	A1451	99.219	23.877	-17.028	1.00	109.80	A16S
ATOM	30635	O2P	A	A1451	100.660	24.552	-19.039	1.00	109.80	A16S
ATOM	30636	O5*	A	A1451	98.898	26.074	-18.128	1.00	61.94	A16S
ATOM	30637	C5*	A	A1451	97.822	25.875	-19.057	1.00	61.94	A16S
ATOM	30638	C4*	A	A1451	97.266	27.217	-19.455	1.00	61.94	A16S
ATOM	30639	O4*	A	A1451	96.839	27.891	-18.250	1.00	61.94	A16S



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ATOM	30640	C1*	A	A1451	97.310	29.218	-18.236	1.00	61.94	A16S
ATOM	30641	N9	A	A1451	98.090	29.381	-17.016	1.00	109.80	A16S
ATOM	30642	C4	A	A1451	97.863	30.307	-16.028	1.00	109.80	A16S
ATOM	30643	N3	A	A1451	96.926	31.269	-16.011	1.00	109.80	A16S
ATOM	30644	C2	A	A1451	96.991	31.968	-14.879	1.00	109.80	A16S
ATOM	30645	N1	A	A1451	97.818	31.818	-13.837	1.00	109.80	A16S
ATOM	30646	C6	A	A1451	98.744	30.834	-13.885	1.00	109.80	A16S
ATOM	30647	N6	A	A1451	99.557	30.666	-12.840	1.00	109.80	A16S
ATOM	30648	C5	A	A1451	98.787	30.034	-15.039	1.00	109.80	A16S
ATOM	30649	N7	A	A1451	99.601	28.974	-15.408	1.00	109.80	A16S
ATOM	30650	C8	A	A1451	99.152	28.630	-16.589	1.00	109.80	A16S
ATOM	30651	C2*	A	A1451	98.022	29.509	-19.558	1.00	61.94	A16S
ATOM	30652	O2*	A	A1451	97.194	30.282	-20.394	1.00	61.94	A16S
ATOM	30653	C3*	A	A1451	98.325	28.108	-20.074	1.00	61.94	A16S
ATOM	30654	O3*	A	A1451	98.381	27.936	-21.503	1.00	61.94	A16S
ATOM	30655	P	C	A1452	97.023	27.898	-22.408	1.00	73.28	A16S
ATOM	30656	O1P	C	A1452	96.063	28.969	-22.049	1.00	72.78	A16S
ATOM	30657	O2P	C	A1452	96.534	26.496	-22.491	1.00	72.78	A16S
ATOM	30658	O5*	C	A1452	97.600	28.254	-23.846	1.00	73.28	A16S
ATOM	30659	C5*	C	A1452	98.354	29.464	-24.040	1.00	73.28	A16S
ATOM	30660	C4*	C	A1452	99.658	29.182	-24.748	1.00	73.28	A16S
ATOM	30661	O4*	C	A1452	100.615	28.546	-23.862	1.00	73.28	A16S
ATOM	30662	C1*	C	A1452	101.227	27.481	-24.553	1.00	73.28	A16S
ATOM	30663	N1	C	A1452	101.720	26.477	-23.599	1.00	72.78	A16S
ATOM	30664	C6	C	A1452	101.167	26.343	-22.356	1.00	72.78	A16S
ATOM	30665	C2	C	A1452	102.787	25.652	-23.992	1.00	72.78	A16S
ATOM	30666	O2	C	A1452	103.255	25.766	-25.139	1.00	72.78	A16S
ATOM	30667	N3	C	A1452	103.275	24.750	-23.117	1.00	72.78	A16S
ATOM	30668	C4	C	A1452	102.737	24.641	-21.903	1.00	72.78	A16S
ATOM	30669	N4	C	A1452	103.265	23.749	-21.072	1.00	72.78	A16S
ATOM	30670	C5	C	A1452	101.639	25.446	-21.486	1.00	72.78	A16S
ATOM	30671	C2*	C	A1452	100.180	26.991	-25.545	1.00	73.28	A16S
ATOM	30672	O2*	C	A1452	100.811	26.280	-26.593	1.00	73.28	A16S
ATOM	30673	C3*	C	A1452	99.588	28.319	-26.002	1.00	73.28	A16S
ATOM	30674	O3*	C	A1452	100.472	28.880	-26.953	1.00	73.28	A16S
ATOM	30675	P	G	A1453	99.897	29.470	-28.326	1.00	70.92	A16S
ATOM	30676	O1P	G	A1453	98.414	29.574	-28.271	1.00	77.85	A16S
ATOM	30677	O2P	G	A1453	100.542	28.709	-29.425	1.00	77.85	A16S
ATOM	30678	O5*	G	A1453	100.455	30.955	-28.341	1.00	70.92	A16S
ATOM	30679	C5*	G	A1453	101.734	31.271	-27.773	1.00	70.92	A16S
ATOM	30680	C4*	G	A1453	101.641	32.580	-27.054	1.00	70.92	A16S
ATOM	30681	O4*	G	A1453	100.685	32.457	-25.977	1.00	70.92	A16S
ATOM	30682	C1*	G	A1453	100.996	33.410	-24.987	1.00	70.92	A16S
ATOM	30683	N9	G	A1453	100.834	32.805	-23.666	1.00	77.85	A16S
ATOM	30684	C4	G	A1453	101.562	31.766	-23.108	1.00	77.85	A16S
ATOM	30685	N3	G	A1453	102.585	31.101	-23.688	1.00	77.85	A16S
ATOM	30686	C2	G	A1453	103.064	30.149	-22.902	1.00	77.85	A16S
ATOM	30687	N2	G	A1453	104.073	29.383	-23.317	1.00	77.85	A16S
ATOM	30688	N1	G	A1453	102.588	29.872	-21.653	1.00	77.85	A16S
ATOM	30689	C6	G	A1453	101.539	30.538	-21.034	1.00	77.85	A16S
ATOM	30690	O6	G	A1453	101.176	30.196	-19.899	1.00	77.85	A16S
ATOM	30691	C5	G	A1453	101.012	31.568	-21.860	1.00	77.85	A16S
ATOM	30692	N7	G	A1453	99.974	32.465	-21.629	1.00	77.85	A16S
ATOM	30693	C8	G	A1453	99.904	33.172	-22.723	1.00	77.85	A16S
ATOM	30694	C2*	G	A1453	102.361	34.038	-25.321	1.00	70.92	A16S
ATOM	30695	O2*	G	A1453	102.177	35.352	-25.820	1.00	70.92	A16S
ATOM	30696	C3*	G	A1453	102.907	33.101	-26.399	1.00	70.92	A16S
ATOM	30697	O3*	G	A1453	103.636	33.862	-27.358	1.00	70.92	A16S
ATOM	30698	P	G	A1454	105.180	33.537	-27.642	1.00	67.31	A16S
ATOM	30699	O1P	G	A1454	105.573	34.435	-28.750	1.00	86.36	A16S
ATOM	30700	O2P	G	A1454	105.349	32.081	-27.793	1.00	86.36	A16S
ATOM	30701	O5*	G	A1454	105.942	33.987	-26.322	1.00	67.31	A16S
ATOM	30702	C5*	G	A1454	105.677	35.260	-25.734	1.00	67.31	A16S
ATOM	30703	C4*	G	A1454	105.854	35.189	-24.240	1.00	67.31	A16S
ATOM	30704	O4*	G	A1454	105.076	34.071	-23.727	1.00	67.31	A16S
ATOM	30705	C1*	G	A1454	105.761	33.464	-22.637	1.00	67.31	A16S
ATOM	30706	N9	G	A1454	106.235	32.146	-23.054	1.00	86.36	A16S
ATOM	30707	C4	G	A1454	106.752	31.169	-22.231	1.00	86.36	A16S
ATOM	30708	N3	G	A1454	106.822	31.222	-20.887	1.00	86.36	A16S
ATOM	30709	C2	G	A1454	107.389	30.145	-20.378	1.00	86.36	A16S
ATOM	30710	N2	G	A1454	107.505	30.029	-19.056	1.00	86.36	A16S
ATOM	30711	N1	G	A1454	107.876	29.108	-21.127	1.00	86.36	A16S
ATOM	30712	C6	G	A1454	107.831	29.039	-22.514	1.00	86.36	A16S
ATOM	30713	O6	G	A1454	108.332	28.074	-23.099	1.00	86.36	A16S
ATOM	30714	C5	G	A1454	107.190	30.174	-23.073	1.00	86.36	A16S
ATOM	30715	N7	G	A1454	106.904	30.488	-24.395	1.00	86.36	A16S
ATOM	30716	C8	G	A1454	106.327	31.658	-24.336	1.00	86.36	A16S



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ATOM	30717	C2* G	A1454	106.992	34.322	-22.356	1.00	67.31	A16S
ATOM	30718	O2* G	A1454	106.692	35.300	-21.373	1.00	67.31	A16S
ATOM	30719	C3* G	A1454	107.259	34.904	-23.737	1.00	67.31	A16S
ATOM	30720	O3* G	A1454	108.088	36.046	-23.683	1.00	67.31	A16S
ATOM	30721	P G	A1455	109.676	35.855	-23.529	1.00	60.18	A16S
ATOM	30722	O1P G	A1455	110.312	37.194	-23.693	1.00	81.13	A16S
ATOM	30723	O2P G	A1455	110.107	34.717	-24.389	1.00	81.13	A16S
ATOM	30724	O5* G	A1455	109.864	35.432	-22.007	1.00	60.18	A16S
ATOM	30725	C5* G	A1455	109.467	36.319	-20.959	1.00	60.18	A16S
ATOM	30726	C4* G	A1455	109.692	35.671	-19.627	1.00	60.18	A16S
ATOM	30727	O4* G	A1455	108.899	34.458	-19.549	1.00	60.18	A16S
ATOM	30728	C1* G	A1455	109.611	33.472	-18.818	1.00	60.18	A16S
ATOM	30729	N9 G	A1455	109.921	32.357	-19.712	1.00	81.13	A16S
ATOM	30730	C4 G	A1455	110.563	31.176	-19.367	1.00	81.13	A16S
ATOM	30731	N3 G	A1455	110.978	30.821	-18.128	1.00	81.13	A16S
ATOM	30732	C2 G	A1455	111.564	29.639	-18.124	1.00	81.13	A16S
ATOM	30733	N2 G	A1455	112.003	29.118	-16.973	1.00	81.13	A16S
ATOM	30734	N1 G	A1455	111.754	28.880	-19.246	1.00	81.13	A16S
ATOM	30735	C6 G	A1455	111.345	29.230	-20.529	1.00	81.13	A16S
ATOM	30736	O6 G	A1455	111.583	28.482	-21.476	1.00	81.13	A16S
ATOM	30737	C5 G	A1455	110.690	30.476	-20.546	1.00	81.13	A16S
ATOM	30738	N7 G	A1455	110.115	31.173	-21.601	1.00	81.13	A16S
ATOM	30739	C8 G	A1455	109.671	32.279	-21.062	1.00	81.13	A16S
ATOM	30740	C2* G	A1455	110.905	34.118	-18.322	1.00	60.18	A16S
ATOM	30741	O2* G	A1455	110.719	34.619	-17.008	1.00	60.18	A16S
ATOM	30742	C3* G	A1455	111.113	35.208	-19.361	1.00	60.18	A16S
ATOM	30743	O3* G	A1455	111.963	36.237	-18.893	1.00	60.18	A16S
ATOM	30744	P C	A1459	113.531	36.156	-19.214	1.00	66.98	A16S
ATOM	30745	O1P C	A1459	114.185	37.406	-18.745	1.00	72.52	A16S
ATOM	30746	O2P C	A1459	113.685	35.726	-20.637	1.00	72.52	A16S
ATOM	30747	O5* C	A1459	114.064	34.970	-18.296	1.00	66.98	A16S
ATOM	30748	C5* C	A1459	114.119	35.095	-16.861	1.00	66.98	A16S
ATOM	30749	C4* C	A1459	114.650	33.818	-16.249	1.00	66.98	A16S
ATOM	30750	O4* C	A1459	113.784	32.715	-16.625	1.00	66.98	A16S
ATOM	30751	C1* C	A1459	114.556	31.542	-16.824	1.00	66.98	A16S
ATOM	30752	N1 C	A1459	114.469	31.133	-18.236	1.00	72.52	A16S
ATOM	30753	C6 C	A1459	113.767	31.867	-19.147	1.00	72.52	A16S
ATOM	30754	C2 C	A1459	115.146	29.976	-18.638	1.00	72.52	A16S
ATOM	30755	O2 C	A1459	115.764	29.316	-17.789	1.00	72.52	A16S
ATOM	30756	N3 C	A1459	115.113	29.606	-19.936	1.00	72.52	A16S
ATOM	30757	C4 C	A1459	114.433	30.335	-20.819	1.00	72.52	A16S
ATOM	30758	N4 C	A1459	114.432	29.932	-22.094	1.00	72.52	A16S
ATOM	30759	C5 C	A1459	113.725	31.509	-20.438	1.00	72.52	A16S
ATOM	30760	C2* C	A1459	116.000	31.887	-16.487	1.00	66.98	A16S
ATOM	30761	O2* C	A1459	116.268	31.552	-15.142	1.00	66.98	A16S
ATOM	30762	C3* C	A1459	116.016	33.380	-16.740	1.00	66.98	A16S
ATOM	30763	O3* C	A1459	117.084	33.990	-16.053	1.00	66.98	A16S
ATOM	30764	P A	A1460	118.515	34.106	-16.782	1.00	78.59	A16S
ATOM	30765	O1P A	A1460	119.396	34.886	-15.864	1.00	76.27	A16S
ATOM	30766	O2P A	A1460	118.268	34.606	-18.170	1.00	76.27	A16S
ATOM	30767	O5* A	A1460	119.044	32.595	-16.884	1.00	78.59	A16S
ATOM	30768	C5* A	A1460	119.293	31.801	-15.695	1.00	78.59	A16S
ATOM	30769	C4* A	A1460	119.762	30.406	-16.059	1.00	78.59	A16S
ATOM	30770	O4* A	A1460	118.720	29.711	-16.774	1.00	78.59	A16S
ATOM	30771	C1* A	A1460	119.298	28.831	-17.719	1.00	78.59	A16S
ATOM	30772	N9 A	A1460	118.859	29.238	-19.045	1.00	76.27	A16S
ATOM	30773	C4 A	A1460	119.021	28.524	-20.204	1.00	76.27	A16S
ATOM	30774	N3 A	A1460	119.607	27.324	-20.344	1.00	76.27	A16S
ATOM	30775	C2 A	A1460	119.575	26.937	-21.618	1.00	76.27	A16S
ATOM	30776	N1 A	A1460	119.063	27.568	-22.686	1.00	76.27	A16S
ATOM	30777	C6 A	A1460	118.484	28.776	-22.505	1.00	76.27	A16S
ATOM	30778	N6 A	A1460	117.975	29.414	-23.564	1.00	76.27	A16S
ATOM	30779	C5 A	A1460	118.453	29.294	-21.202	1.00	76.27	A16S
ATOM	30780	N7 A	A1460	117.943	30.473	-20.680	1.00	76.27	A16S
ATOM	30781	C8 A	A1460	118.213	30.393	-19.403	1.00	76.27	A16S
ATOM	30782	C2* A	A1460	120.812	28.934	-17.600	1.00	78.59	A16S
ATOM	30783	O2* A	A1460	121.295	27.884	-16.790	1.00	78.59	A16S
ATOM	30784	C3* A	A1460	120.974	30.302	-16.966	1.00	78.59	A16S
ATOM	30785	O3* A	A1460	122.179	30.354	-16.237	1.00	78.59	A16S
ATOM	30786	P G	A1461	123.427	31.142	-16.850	1.00	77.96	A16S
ATOM	30787	O1P G	A1461	124.553	31.004	-15.887	1.00	75.98	A16S
ATOM	30788	O2P G	A1461	122.937	32.494	-17.230	1.00	75.98	A16S
ATOM	30789	O5* G	A1461	123.774	30.346	-18.182	1.00	77.96	A16S
ATOM	30790	C5* G	A1461	124.331	29.030	-18.125	1.00	77.96	A16S
ATOM	30791	C4* G	A1461	124.258	28.382	-19.482	1.00	77.96	A16S
ATOM	30792	O4* G	A1461	122.870	28.328	-19.891	1.00	77.96	A16S
ATOM	30793	C1* G	A1461	122.770	28.565	-21.283	1.00	77.96	A16S



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ATOM	30794	N9	G	A1461	122.068	29.827	-21.467	1.00	75.98	A16S
ATOM	30795	C4	G	A1461	121.593	30.316	-22.653	1.00	75.98	A16S
ATOM	30796	N3	G	A1461	121.681	29.704	-23.851	1.00	75.98	A16S
ATOM	30797	C2	G	A1461	121.147	30.429	-24.813	1.00	75.98	A16S
ATOM	30798	N2	G	A1461	121.163	29.976	-26.073	1.00	75.98	A16S
ATOM	30799	N1	G	A1461	120.563	31.653	-24.612	1.00	75.98	A16S
ATOM	30800	C6	G	A1461	120.464	32.300	-23.385	1.00	75.98	A16S
ATOM	30801	O6	G	A1461	119.925	33.407	-23.313	1.00	75.98	A16S
ATOM	30802	C5	G	A1461	121.040	31.539	-22.349	1.00	75.98	A16S
ATOM	30803	N7	G	A1461	121.161	31.813	-20.993	1.00	75.98	A16S
ATOM	30804	C8	G	A1461	121.772	30.768	-20.509	1.00	75.98	A16S
ATOM	30805	C2*	G	A1461	124.187	28.677	-21.838	1.00	77.96	A16S
ATOM	30806	O2*	G	A1461	124.630	27.430	-22.331	1.00	77.96	A16S
ATOM	30807	C3*	G	A1461	124.952	29.134	-20.607	1.00	77.96	A16S
ATOM	30808	O3*	G	A1461	126.333	28.832	-20.707	1.00	77.96	A16S
ATOM	30809	P	G	A1462	127.315	29.889	-21.412	1.00	76.19	A16S
ATOM	30810	O1P	G	A1462	128.686	29.304	-21.357	1.00	79.35	A16S
ATOM	30811	O2P	G	A1462	127.055	31.232	-20.808	1.00	79.35	A16S
ATOM	30812	O5*	G	A1462	126.822	29.899	-22.929	1.00	76.19	A16S
ATOM	30813	C5*	G	A1462	126.921	28.713	-23.737	1.00	76.19	A16S
ATOM	30814	C4*	G	A1462	126.579	29.027	-25.171	1.00	76.19	A16S
ATOM	30815	O4*	G	A1462	125.161	29.292	-25.301	1.00	76.19	A16S
ATOM	30816	C1*	G	A1462	124.950	30.341	-26.233	1.00	76.19	A16S
ATOM	30817	N9	G	A1462	124.347	31.455	-25.509	1.00	79.35	A16S
ATOM	30818	C4	G	A1462	123.677	32.536	-26.044	1.00	79.35	A16S
ATOM	30819	N3	G	A1462	123.442	32.759	-27.350	1.00	79.35	A16S
ATOM	30820	C2	G	A1462	122.769	33.883	-27.547	1.00	79.35	A16S
ATOM	30821	N2	G	A1462	122.439	34.240	-28.786	1.00	79.35	A16S
ATOM	30822	N1	G	A1462	122.367	34.734	-26.546	1.00	79.35	A16S
ATOM	30823	C6	G	A1462	122.603	34.535	-25.191	1.00	79.35	A16S
ATOM	30824	O6	G	A1462	122.206	35.374	-24.358	1.00	79.35	A16S
ATOM	30825	C5	G	A1462	123.318	33.314	-24.962	1.00	79.35	A16S
ATOM	30826	N7	G	A1462	123.745	32.730	-23.775	1.00	79.35	A16S
ATOM	30827	C8	G	A1462	124.348	31.636	-24.148	1.00	79.35	A16S
ATOM	30828	C2*	G	A1462	126.313	30.717	-26.815	1.00	76.19	A16S
ATOM	30829	O2*	G	A1462	126.535	30.033	-28.030	1.00	76.19	A16S
ATOM	30830	C3*	G	A1462	127.252	30.267	-25.709	1.00	76.19	A16S
ATOM	30831	O3*	G	A1462	128.546	29.992	-26.177	1.00	76.19	A16S
ATOM	30832	P	C	A1463	129.625	31.171	-26.200	1.00	72.27	A16S
ATOM	30833	O1P	C	A1463	130.938	30.566	-26.539	1.00	83.47	A16S
ATOM	30834	O2P	C	A1463	129.484	31.968	-24.955	1.00	83.47	A16S
ATOM	30835	O5*	C	A1463	129.163	32.055	-27.437	1.00	72.27	A16S
ATOM	30836	C5*	C	A1463	129.136	31.470	-28.733	1.00	72.27	A16S
ATOM	30837	C4*	C	A1463	128.523	32.405	-29.728	1.00	72.27	A16S
ATOM	30838	O4*	C	A1463	127.109	32.576	-29.454	1.00	72.27	A16S
ATOM	30839	C1*	C	A1463	126.707	33.871	-29.866	1.00	72.27	A16S
ATOM	30840	N1	C	A1463	126.278	34.638	-28.692	1.00	83.47	A16S
ATOM	30841	C6	C	A1463	126.848	34.432	-27.464	1.00	83.47	A16S
ATOM	30842	C2	C	A1463	125.305	35.625	-28.862	1.00	83.47	A16S
ATOM	30843	O2	C	A1463	124.773	35.760	-29.979	1.00	83.47	A16S
ATOM	30844	N3	C	A1463	124.971	36.407	-27.811	1.00	83.47	A16S
ATOM	30845	C4	C	A1463	125.567	36.228	-26.630	1.00	83.47	A16S
ATOM	30846	N4	C	A1463	125.241	37.052	-25.635	1.00	83.47	A16S
ATOM	30847	C5	C	A1463	126.531	35.201	-26.419	1.00	83.47	A16S
ATOM	30848	C2*	C	A1463	127.935	34.570	-30.445	1.00	72.27	A16S
ATOM	30849	O2*	C	A1463	127.932	34.444	-31.853	1.00	72.27	A16S
ATOM	30850	C3*	C	A1463	129.059	33.818	-29.744	1.00	72.27	A16S
ATOM	30851	O3*	C	A1463	130.315	33.948	-30.379	1.00	72.27	A16S
ATOM	30852	P	G	A1464	131.300	35.135	-29.918	1.00	77.88	A16S
ATOM	30853	O1P	G	A1464	132.537	35.005	-30.735	1.00	75.05	A16S
ATOM	30854	O2P	G	A1464	131.400	35.143	-28.427	1.00	75.05	A16S
ATOM	30855	O5*	G	A1464	130.524	36.454	-30.370	1.00	77.88	A16S
ATOM	30856	C5*	G	A1464	130.204	36.663	-31.754	1.00	77.88	A16S
ATOM	30857	C4*	G	A1464	129.488	37.973	-31.948	1.00	77.88	A16S
ATOM	30858	O4*	G	A1464	128.198	37.930	-31.291	1.00	77.88	A16S
ATOM	30859	C1*	G	A1464	127.847	39.232	-30.847	1.00	77.88	A16S
ATOM	30860	N9	G	A1464	127.750	39.211	-29.393	1.00	75.05	A16S
ATOM	30861	C4	G	A1464	127.086	40.116	-28.606	1.00	75.05	A16S
ATOM	30862	N3	G	A1464	126.352	41.154	-29.045	1.00	75.05	A16S
ATOM	30863	C2	G	A1464	125.859	41.862	-28.048	1.00	75.05	A16S
ATOM	30864	N2	G	A1464	125.096	42.924	-28.307	1.00	75.05	A16S
ATOM	30865	N1	G	A1464	126.077	41.582	-26.724	1.00	75.05	A16S
ATOM	30866	C6	G	A1464	126.843	40.524	-26.250	1.00	75.05	A16S
ATOM	30867	O6	G	A1464	127.010	40.378	-25.031	1.00	75.05	A16S
ATOM	30868	C5	G	A1464	127.359	39.744	-27.310	1.00	75.05	A16S
ATOM	30869	N7	G	A1464	128.146	38.603	-27.282	1.00	75.05	A16S
ATOM	30870	C8	G	A1464	128.345	38.317	-28.539	1.00	75.05	A16S



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ATOM	30871	C2* G	A1464	128.974	40.174	-31.269	1.00	77.88	A16S
ATOM	30872	O2* G	A1464	128.691	40.773	-32.518	1.00	77.88	A16S
ATOM	30873	C3* G	A1464	130.144	39.216	-31.380	1.00	77.88	A16S
ATOM	30874	O3* G	A1464	131.133	39.756	-32.220	1.00	77.88	A16S
ATOM	30875	P C	A1465	132.190	40.800	-31.614	1.00	77.58	A16S
ATOM	30876	O1P C	A1465	133.160	41.055	-32.694	1.00	68.23	A16S
ATOM	30877	O2P C	A1465	132.677	40.316	-30.291	1.00	68.23	A16S
ATOM	30878	O5* C	A1465	131.349	42.136	-31.416	1.00	77.58	A16S
ATOM	30879	C5* C	A1465	130.859	42.851	-32.555	1.00	77.58	A16S
ATOM	30880	C4* C	A1465	130.258	44.160	-32.133	1.00	77.58	A16S
ATOM	30881	O4* C	A1465	129.091	43.909	-31.313	1.00	77.58	A16S
ATOM	30882	C1* C	A1465	128.946	44.951	-30.361	1.00	77.58	A16S
ATOM	30883	N1 C	A1465	128.924	44.371	-28.998	1.00	68.23	A16S
ATOM	30884	C6 C	A1465	129.669	43.268	-28.693	1.00	68.23	A16S
ATOM	30885	C2 C	A1465	128.127	44.986	-28.004	1.00	68.23	A16S
ATOM	30886	O2 C	A1465	127.421	45.970	-28.304	1.00	68.23	A16S
ATOM	30887	N3 C	A1465	128.141	44.486	-26.743	1.00	68.23	A16S
ATOM	30888	C4 C	A1465	128.884	43.414	-26.457	1.00	68.23	A16S
ATOM	30889	N4 C	A1465	128.870	42.958	-25.196	1.00	68.23	A16S
ATOM	30890	C5 C	A1465	129.677	42.759	-27.450	1.00	68.23	A16S
ATOM	30891	C2* C	A1465	130.096	45.937	-30.580	1.00	77.58	A16S
ATOM	30892	O2* C	A1465	129.656	46.994	-31.415	1.00	77.58	A16S
ATOM	30893	C3* C	A1465	131.128	45.061	-31.277	1.00	77.58	A16S
ATOM	30894	O3* C	A1465	132.023	45.841	-32.050	1.00	77.58	A16S
ATOM	30895	P C	A1466	133.388	46.375	-31.385	1.00	67.43	A16S
ATOM	30896	O1P C	A1466	133.980	47.332	-32.357	1.00	81.41	A16S
ATOM	30897	O2P C	A1466	134.190	45.214	-30.917	1.00	81.41	A16S
ATOM	30898	O5* C	A1466	132.905	47.213	-30.120	1.00	67.43	A16S
ATOM	30899	C5* C	A1466	132.227	48.458	-30.307	1.00	67.43	A16S
ATOM	30900	C4* C	A1466	131.762	49.015	-28.991	1.00	67.43	A16S
ATOM	30901	O4* C	A1466	130.833	48.095	-28.372	1.00	67.43	A16S
ATOM	30902	C1* C	A1466	130.929	48.212	-26.966	1.00	67.43	A16S
ATOM	30903	N1 C	A1466	131.195	46.887	-26.381	1.00	81.41	A16S
ATOM	30904	C6 C	A1466	131.932	45.947	-27.044	1.00	81.41	A16S
ATOM	30905	C2 C	A1466	130.681	46.611	-25.115	1.00	81.41	A16S
ATOM	30906	O2 C	A1466	130.016	47.483	-24.535	1.00	81.41	A16S
ATOM	30907	N3 C	A1466	130.920	45.407	-24.551	1.00	81.41	A16S
ATOM	30908	C4 C	A1466	131.646	44.501	-25.200	1.00	81.41	A16S
ATOM	30909	N4 C	A1466	131.860	43.332	-24.599	1.00	81.41	A16S
ATOM	30910	C5 C	A1466	132.183	44.752	-26.492	1.00	81.41	A16S
ATOM	30911	C2* C	A1466	132.018	49.236	-26.647	1.00	67.43	A16S
ATOM	30912	O2* C	A1466	131.405	50.482	-26.392	1.00	67.43	A16S
ATOM	30913	C3* C	A1466	132.826	49.253	-27.937	1.00	67.43	A16S
ATOM	30914	O3* C	A1466	133.453	50.513	-28.122	1.00	67.43	A16S
ATOM	30915	P G	A1467	135.034	50.658	-27.863	1.00	72.59	A16S
ATOM	30916	O1P G	A1467	135.371	52.096	-28.028	1.00	101.42	A16S
ATOM	30917	O2P G	A1467	135.747	49.637	-28.674	1.00	101.42	A16S
ATOM	30918	O5* G	A1467	135.218	50.256	-26.334	1.00	72.59	A16S
ATOM	30919	C5* G	A1467	134.506	50.959	-25.308	1.00	72.59	A16S
ATOM	30920	C4* G	A1467	134.499	50.161	-24.032	1.00	72.59	A16S
ATOM	30921	O4* G	A1467	133.762	48.927	-24.221	1.00	72.59	A16S
ATOM	30922	C1* G	A1467	134.332	47.909	-23.419	1.00	72.59	A16S
ATOM	30923	N9 G	A1467	134.801	46.846	-24.300	1.00	101.42	A16S
ATOM	30924	C4 G	A1467	134.912	45.516	-23.985	1.00	101.42	A16S
ATOM	30925	N3 G	A1467	134.567	44.949	-22.813	1.00	101.42	A16S
ATOM	30926	C2 G	A1467	134.807	43.651	-22.805	1.00	101.42	A16S
ATOM	30927	N2 G	A1467	134.506	42.925	-21.722	1.00	101.42	A16S
ATOM	30928	N1 G	A1467	135.354	42.966	-23.860	1.00	101.42	A16S
ATOM	30929	C6 G	A1467	135.715	43.528	-25.077	1.00	101.42	A16S
ATOM	30930	O6 G	A1467	136.200	42.815	-25.965	1.00	101.42	A16S
ATOM	30931	C5 G	A1467	135.452	44.919	-25.104	1.00	101.42	A16S
ATOM	30932	N7 G	A1467	135.654	45.851	-26.110	1.00	101.42	A16S
ATOM	30933	C8 G	A1467	135.249	46.977	-25.592	1.00	101.42	A16S
ATOM	30934	C2* G	A1467	135.489	48.534	-22.634	1.00	72.59	A16S
ATOM	30935	O2* G	A1467	135.038	48.958	-21.361	1.00	72.59	A16S
ATOM	30936	C3* G	A1467	135.854	49.716	-23.518	1.00	72.59	A16S
ATOM	30937	O3* G	A1467	136.505	50.743	-22.794	1.00	72.59	A16S
ATOM	30938	P A	A1468	138.090	50.942	-22.953	1.00	67.93	A16S
ATOM	30939	O1P A	A1468	138.321	52.359	-23.312	1.00	80.31	A16S
ATOM	30940	O2P A	A1468	138.644	49.869	-23.820	1.00	80.31	A16S
ATOM	30941	O5* A	A1468	138.633	50.722	-21.475	1.00	67.93	A16S
ATOM	30942	C5* A	A1468	138.186	51.569	-20.406	1.00	67.93	A16S
ATOM	30943	C4* A	A1468	138.486	50.932	-19.078	1.00	67.93	A16S
ATOM	30944	O4* A	A1468	137.801	49.659	-19.009	1.00	67.93	A16S
ATOM	30945	C1* A	A1468	138.571	48.743	-18.251	1.00	67.93	A16S
ATOM	30946	N9 A	A1468	138.885	47.590	-19.086	1.00	80.31	A16S
ATOM	30947	C4 A	A1468	139.291	46.365	-18.621	1.00	80.31	A16S



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ATOM	30948	N3	A	A1468	139.464	46.001	-17.338	1.00	80.31	A16S
ATOM	30949	C2	A	A1468	139.860	44.735	-17.263	1.00	80.31	A16S
ATOM	30950	N1	A	A1468	140.086	43.858	-18.252	1.00	80.31	A16S
ATOM	30951	C6	A	A1468	139.904	44.261	-19.531	1.00	80.31	A16S
ATOM	30952	N6	A	A1468	140.132	43.389	-20.516	1.00	80.31	A16S
ATOM	30953	C5	A	A1468	139.484	45.582	-19.742	1.00	80.31	A16S
ATOM	30954	N7	A	A1468	139.204	46.299	-20.896	1.00	80.31	A16S
ATOM	30955	C8	A	A1468	138.853	47.481	-20.453	1.00	80.31	A16S
ATOM	30956	C2*	A	A1468	139.834	49.461	-17.789	1.00	67.93	A16S
ATOM	30957	O2*	A	A1468	139.627	49.883	-16.458	1.00	67.93	A16S
ATOM	30958	C3*	A	A1468	139.940	50.586	-18.815	1.00	67.93	A16S
ATOM	30959	O3*	A	A1468	140.679	51.707	-18.346	1.00	67.93	A16S
ATOM	30960	P	G	A1469	142.074	52.081	-19.050	1.00	71.66	A16S
ATOM	30961	O1P	G	A1469	142.702	53.174	-18.266	1.00	85.72	A16S
ATOM	30962	O2P	G	A1469	141.812	52.272	-20.494	1.00	85.72	A16S
ATOM	30963	O5*	G	A1469	142.955	50.768	-18.877	1.00	71.66	A16S
ATOM	30964	C5*	G	A1469	143.233	50.252	-17.569	1.00	71.66	A16S
ATOM	30965	C4*	G	A1469	143.574	48.781	-17.634	1.00	71.66	A16S
ATOM	30966	O4*	G	A1469	142.468	48.049	-18.219	1.00	71.66	A16S
ATOM	30967	C1*	G	A1469	142.964	46.947	-18.961	1.00	71.66	A16S
ATOM	30968	N9	G	A1469	142.632	47.150	-20.364	1.00	85.72	A16S
ATOM	30969	C4	G	A1469	142.803	46.236	-21.367	1.00	85.72	A16S
ATOM	30970	N3	G	A1469	143.281	44.984	-21.219	1.00	85.72	A16S
ATOM	30971	C2	G	A1469	143.353	44.349	-22.367	1.00	85.72	A16S
ATOM	30972	N2	G	A1469	143.822	43.096	-22.401	1.00	85.72	A16S
ATOM	30973	N1	G	A1469	142.977	44.898	-23.568	1.00	85.72	A16S
ATOM	30974	C6	G	A1469	142.489	46.193	-23.739	1.00	85.72	A16S
ATOM	30975	O6	G	A1469	142.199	46.606	-24.867	1.00	85.72	A16S
ATOM	30976	C5	G	A1469	142.408	46.878	-22.518	1.00	85.72	A16S
ATOM	30977	N7	G	A1469	141.981	48.169	-22.243	1.00	85.72	A16S
ATOM	30978	C8	G	A1469	142.127	48.286	-20.953	1.00	85.72	A16S
ATOM	30979	C2*	G	A1469	144.481	46.930	-18.802	1.00	71.66	A16S
ATOM	30980	O2*	G	A1469	144.850	46.070	-17.741	1.00	71.66	A16S
ATOM	30981	C3*	G	A1469	144.762	48.390	-18.497	1.00	71.66	A16S
ATOM	30982	O3*	G	A1469	145.999	48.545	-17.840	1.00	71.66	A16S
ATOM	30983	P	G	A1470	147.303	48.858	-18.707	1.00	86.67	A16S
ATOM	30984	O1P	G	A1470	148.366	49.256	-17.744	1.00	84.41	A16S
ATOM	30985	O2P	G	A1470	146.908	49.785	-19.792	1.00	84.41	A16S
ATOM	30986	O5*	G	A1470	147.658	47.455	-19.369	1.00	86.67	A16S
ATOM	30987	C5*	G	A1470	148.099	46.356	-18.555	1.00	86.67	A16S
ATOM	30988	C4*	G	A1470	148.248	45.105	-19.386	1.00	86.67	A16S
ATOM	30989	O4*	G	A1470	146.964	44.752	-19.972	1.00	86.67	A16S
ATOM	30990	C1*	G	A1470	147.166	44.125	-21.229	1.00	86.67	A16S
ATOM	30991	N9	G	A1470	146.593	44.965	-22.271	1.00	84.41	A16S
ATOM	30992	C4	G	A1470	146.450	44.618	-23.589	1.00	84.41	A16S
ATOM	30993	N3	G	A1470	146.770	43.424	-24.130	1.00	84.41	A16S
ATOM	30994	C2	G	A1470	146.550	43.396	-25.432	1.00	84.41	A16S
ATOM	30995	N2	G	A1470	146.823	42.279	-26.128	1.00	84.41	A16S
ATOM	30996	N1	G	A1470	146.051	44.460	-26.147	1.00	84.41	A16S
ATOM	30997	C6	G	A1470	145.715	45.701	-25.607	1.00	84.41	A16S
ATOM	30998	O6	G	A1470	145.276	46.599	-26.339	1.00	84.41	A16S
ATOM	30999	C5	G	A1470	145.949	45.741	-24.211	1.00	84.41	A16S
ATOM	31000	N7	G	A1470	145.756	46.766	-23.296	1.00	84.41	A16S
ATOM	31001	C8	G	A1470	146.142	46.259	-22.158	1.00	84.41	A16S
ATOM	31002	C2*	G	A1470	148.672	44.042	-21.454	1.00	86.67	A16S
ATOM	31003	O2*	G	A1470	149.164	42.790	-21.026	1.00	86.67	A16S
ATOM	31004	C3*	G	A1470	149.173	45.183	-20.586	1.00	86.67	A16S
ATOM	31005	O3*	G	A1470	150.536	45.008	-20.276	1.00	86.67	A16S
ATOM	31006	P	G	A1471	151.638	45.441	-21.359	1.00	99.89	A16S
ATOM	31007	O1P	G	A1471	152.948	45.074	-20.779	1.00	114.38	A16S
ATOM	31008	O2P	G	A1471	151.383	46.842	-21.769	1.00	114.38	A16S
ATOM	31009	O5*	G	A1471	151.347	44.515	-22.627	1.00	99.89	A16S
ATOM	31010	C5*	G	A1471	151.616	43.095	-22.593	1.00	99.89	A16S
ATOM	31011	C4*	G	A1471	151.511	42.496	-23.982	1.00	99.89	A16S
ATOM	31012	O4*	G	A1471	150.157	42.653	-24.478	1.00	99.89	A16S
ATOM	31013	C1*	G	A1471	150.181	42.920	-25.872	1.00	99.89	A16S
ATOM	31014	N9	G	A1471	149.637	44.258	-26.089	1.00	114.38	A16S
ATOM	31015	C4	G	A1471	149.261	44.792	-27.295	1.00	114.38	A16S
ATOM	31016	N3	G	A1471	149.327	44.169	-28.490	1.00	114.38	A16S
ATOM	31017	C2	G	A1471	148.890	44.940	-29.472	1.00	114.38	A16S
ATOM	31018	N2	G	A1471	148.890	44.476	-30.734	1.00	114.38	A16S
ATOM	31019	N1	G	A1471	148.423	46.221	-29.291	1.00	114.38	A16S
ATOM	31020	C6	G	A1471	148.353	46.883	-28.067	1.00	114.38	A16S
ATOM	31021	O6	G	A1471	147.926	48.042	-28.015	1.00	114.38	A16S
ATOM	31022	C5	G	A1471	148.818	46.068	-27.009	1.00	114.38	A16S
ATOM	31023	N7	G	A1471	148.919	46.333	-25.650	1.00	114.38	A16S
ATOM	31024	C8	G	A1471	149.408	45.235	-25.144	1.00	114.38	A16S



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ATOM	31025	C2*	G	A1471	151.633	42.826	-26.338	1.00	99.89	A16S
ATOM	31026	O2*	G	A1471	151.889	41.532	-26.844	1.00	99.89	A16S
ATOM	31027	C3*	G	A1471	152.381	43.142	-25.049	1.00	99.89	A16S
ATOM	31028	O3*	G	A1471	153.712	42.656	-25.040	1.00	99.89	A16S
ATOM	31029	P	U	A1472	154.922	43.675	-25.315	1.00137.77		A16S
ATOM	31030	O1P	U	A1472	156.148	43.042	-24.770	1.00107.86		A16S
ATOM	31031	O2P	U	A1472	154.530	45.028	-24.847	1.00107.86		A16S
ATOM	31032	O5*	U	A1472	155.012	43.726	-26.903	1.00137.77		A16S
ATOM	31033	C5*	U	A1472	155.459	42.583	-27.651	1.00137.77		A16S
ATOM	31034	C4*	U	A1472	155.355	42.853	-29.132	1.00137.77		A16S
ATOM	31035	O4*	U	A1472	153.955	42.988	-29.494	1.00137.77		A16S
ATOM	31036	C1*	U	A1472	153.814	43.971	-30.511	1.00137.77		A16S
ATOM	31037	N1	U	A1472	153.006	45.082	-29.979	1.00107.86		A16S
ATOM	31038	C6	U	A1472	153.072	45.427	-28.644	1.00107.86		A16S
ATOM	31039	C2	U	A1472	152.191	45.791	-30.861	1.00107.86		A16S
ATOM	31040	O2	U	A1472	152.074	45.508	-32.048	1.00107.86		A16S
ATOM	31041	N3	U	A1472	151.515	46.846	-30.295	1.00107.86		A16S
ATOM	31042	C4	U	A1472	151.556	47.252	-28.970	1.00107.86		A16S
ATOM	31043	O4	U	A1472	150.919	48.247	-28.616	1.00107.86		A16S
ATOM	31044	C5	U	A1472	152.396	46.456	-28.127	1.00107.86		A16S
ATOM	31045	C2*	U	A1472	155.219	44.442	-30.895	1.00137.77		A16S
ATOM	31046	O2*	U	A1472	155.679	43.717	-32.020	1.00137.77		A16S
ATOM	31047	C3*	U	A1472	156.002	44.143	-29.620	1.00137.77		A16S
ATOM	31048	O3*	U	A1472	157.408	44.024	-29.837	1.00137.77		A16S
ATOM	31049	P	A	A1473	158.323	45.353	-29.884	1.00159.90		A16S
ATOM	31050	O1P	A	A1473	159.719	44.911	-30.155	1.00105.79		A16S
ATOM	31051	O2P	A	A1473	158.046	46.194	-28.687	1.00105.79		A16S
ATOM	31052	O5*	A	A1473	157.779	46.130	-31.166	1.00159.90		A16S
ATOM	31053	C5*	A	A1473	157.869	45.533	-32.473	1.00159.90		A16S
ATOM	31054	C4*	A	A1473	157.288	46.449	-33.522	1.00159.90		A16S
ATOM	31055	O4*	A	A1473	155.839	46.488	-33.428	1.00159.90		A16S
ATOM	31056	C1*	A	A1473	155.373	47.776	-33.808	1.00159.90		A16S
ATOM	31057	N9	A	A1473	154.710	48.393	-32.657	1.00105.79		A16S
ATOM	31058	C4	A	A1473	153.838	49.458	-32.695	1.00105.79		A16S
ATOM	31059	N3	A	A1473	153.403	50.121	-33.780	1.00105.79		A16S
ATOM	31060	C2	A	A1473	152.579	51.104	-33.429	1.00105.79		A16S
ATOM	31061	N1	A	A1473	152.174	51.476	-32.213	1.00105.79		A16S
ATOM	31062	C6	A	A1473	152.632	50.794	-31.145	1.00105.79		A16S
ATOM	31063	N6	A	A1473	152.235	51.173	-29.932	1.00105.79		A16S
ATOM	31064	C5	A	A1473	153.508	49.723	-31.380	1.00105.79		A16S
ATOM	31065	N7	A	A1473	154.146	48.834	-30.526	1.00105.79		A16S
ATOM	31066	C8	A	A1473	154.840	48.066	-31.330	1.00105.79		A16S
ATOM	31067	C2*	A	A1473	156.592	48.602	-34.218	1.00159.90		A16S
ATOM	31068	O2*	A	A1473	156.767	48.538	-35.621	1.00159.90		A16S
ATOM	31069	C3*	A	A1473	157.702	47.906	-33.443	1.00159.90		A16S
ATOM	31070	O3*	A	A1473	158.990	48.155	-33.972	1.00159.90		A16S
ATOM	31071	P	G	A1474	159.833	49.405	-33.421	1.00176.44		A16S
ATOM	31072	O1P	G	A1474	161.219	49.247	-33.920	1.00170.53		A16S
ATOM	31073	O2P	G	A1474	159.591	49.546	-31.961	1.00170.53		A16S
ATOM	31074	O5*	G	A1474	159.161	50.651	-34.148	1.00176.44		A16S
ATOM	31075	C5*	G	A1474	159.120	50.727	-35.586	1.00176.44		A16S
ATOM	31076	C4*	G	A1474	158.283	51.904	-36.027	1.00176.44		A16S
ATOM	31077	O4*	G	A1474	156.897	51.675	-35.661	1.00176.44		A16S
ATOM	31078	C1*	G	A1474	156.295	52.899	-35.271	1.00176.44		A16S
ATOM	31079	N9	G	A1474	155.940	52.805	-33.856	1.00170.53		A16S
ATOM	31080	C4	G	A1474	154.955	53.518	-33.212	1.00170.53		A16S
ATOM	31081	N3	G	A1474	154.127	54.419	-33.782	1.00170.53		A16S
ATOM	31082	C2	G	A1474	153.293	54.947	-32.906	1.00170.53		A16S
ATOM	31083	N2	G	A1474	152.404	55.864	-33.305	1.00170.53		A16S
ATOM	31084	N1	G	A1474	153.269	54.617	-31.574	1.00170.53		A16S
ATOM	31085	C6	G	A1474	154.113	53.695	-30.963	1.00170.53		A16S
ATOM	31086	O6	G	A1474	154.012	53.477	-29.749	1.00170.53		A16S
ATOM	31087	C5	G	A1474	155.016	53.118	-31.894	1.00170.53		A16S
ATOM	31088	N7	G	A1474	156.013	52.170	-31.711	1.00170.53		A16S
ATOM	31089	C8	G	A1474	156.531	52.012	-32.899	1.00170.53		A16S
ATOM	31090	C2*	G	A1474	157.323	54.008	-35.499	1.00176.44		A16S
ATOM	31091	O2*	G	A1474	157.138	54.587	-36.776	1.00176.44		A16S
ATOM	31092	C3*	G	A1474	158.628	53.234	-35.378	1.00176.44		A16S
ATOM	31093	O3*	G	A1474	159.727	53.896	-35.984	1.00176.44		A16S
ATOM	31094	P	G	A1475	160.612	54.912	-35.106	1.00173.53		A16S
ATOM	31095	O1P	G	A1475	161.700	55.414	-35.983	1.00189.89		A16S
ATOM	31096	O2P	G	A1475	160.953	54.264	-33.811	1.00189.89		A16S
ATOM	31097	O5*	G	A1475	159.607	56.110	-34.801	1.00173.53		A16S
ATOM	31098	C5*	G	A1475	159.003	56.856	-35.877	1.00173.53		A16S
ATOM	31099	C4*	G	A1475	158.046	57.895	-35.336	1.00173.53		A16S
ATOM	31100	O4*	G	A1475	156.853	57.260	-34.809	1.00173.53		A16S
ATOM	31101	C1*	G	A1475	156.367	58.004	-33.700	1.00173.53		A16S



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ATOM	31102	N9	G	A1475	156.352	57.141	-32.517	1.00189.89	A16S
ATOM	31103	C4	G	A1475	155.597	57.338	-31.383	1.00189.89	A16S
ATOM	31104	N3	G	A1475	154.728	58.349	-31.179	1.00189.89	A16S
ATOM	31105	C2	G	A1475	154.161	58.282	-29.989	1.00189.89	A16S
ATOM	31106	N2	G	A1475	153.273	59.215	-29.630	1.00189.89	A16S
ATOM	31107	N1	G	A1475	154.425	57.298	-29.065	1.00189.89	A16S
ATOM	31108	C6	G	A1475	155.317	56.246	-29.248	1.00189.89	A16S
ATOM	31109	O6	G	A1475	155.483	55.412	-28.345	1.00189.89	A16S
ATOM	31110	C5	G	A1475	155.935	56.306	-30.531	1.00189.89	A16S
ATOM	31111	N7	G	A1475	156.873	55.467	-31.121	1.00189.89	A16S
ATOM	31112	C8	G	A1475	157.088	55.998	-32.296	1.00189.89	A16S
ATOM	31113	C2*	G	A1475	157.281	59.217	-33.514	1.00173.53	A16S
ATOM	31114	O2*	G	A1475	156.714	60.354	-34.136	1.00173.53	A16S
ATOM	31115	C3*	G	A1475	158.564	58.738	-34.184	1.00173.53	A16S
ATOM	31116	O3*	G	A1475	159.399	59.799	-34.614	1.00173.53	A16S
ATOM	31117	P	G	A1476	160.461	60.428	-33.587	1.00148.18	A16S
ATOM	31118	O1P	G	A1476	161.384	61.277	-34.382	1.00194.39	A16S
ATOM	31119	O2P	G	A1476	161.015	59.341	-32.732	1.00194.39	A16S
ATOM	31120	O5*	G	A1476	159.560	61.373	-32.676	1.00148.18	A16S
ATOM	31121	C5*	G	A1476	158.800	62.441	-33.266	1.00148.18	A16S
ATOM	31122	C4*	G	A1476	157.887	63.066	-32.243	1.00148.18	A16S
ATOM	31123	O4*	G	A1476	156.816	62.149	-31.904	1.00148.18	A16S
ATOM	31124	C1*	G	A1476	156.449	62.333	-30.546	1.00148.18	A16S
ATOM	31125	N9	G	A1476	156.643	61.075	-29.833	1.00194.39	A16S
ATOM	31126	C4	G	A1476	156.211	60.793	-28.559	1.00194.39	A16S
ATOM	31127	N3	G	A1476	155.531	61.631	-27.750	1.00194.39	A16S
ATOM	31128	C2	G	A1476	155.257	61.076	-26.584	1.00194.39	A16S
ATOM	31129	N2	G	A1476	154.589	61.774	-25.657	1.00194.39	A16S
ATOM	31130	N1	G	A1476	155.619	59.798	-26.239	1.00194.39	A16S
ATOM	31131	C6	G	A1476	156.318	58.915	-27.056	1.00194.39	A16S
ATOM	31132	O6	G	A1476	156.588	57.777	-26.648	1.00194.39	A16S
ATOM	31133	C5	G	A1476	156.625	59.502	-28.310	1.00194.39	A16S
ATOM	31134	N7	G	A1476	157.304	58.983	-29.404	1.00194.39	A16S
ATOM	31135	C8	G	A1476	157.290	59.949	-30.281	1.00194.39	A16S
ATOM	31136	C2*	G	A1476	157.322	63.447	-29.969	1.00148.18	A16S
ATOM	31137	O2*	G	A1476	156.607	64.666	-29.999	1.00148.18	A16S
ATOM	31138	C3*	G	A1476	158.522	63.416	-30.909	1.00148.18	A16S
ATOM	31139	O3*	G	A1476	159.227	64.647	-30.950	1.00148.18	A16S
ATOM	31140	P	C	A1477	160.524	64.848	-30.020	1.00133.61	A16S
ATOM	31141	O1P	C	A1477	161.204	66.084	-30.480	1.00198.94	A16S
ATOM	31142	O2P	C	A1477	161.279	63.568	-29.983	1.00198.94	A16S
ATOM	31143	O5*	C	A1477	159.916	65.106	-28.566	1.00133.61	A16S
ATOM	31144	C5*	C	A1477	158.964	66.169	-28.337	1.00133.61	A16S
ATOM	31145	C4*	C	A1477	158.237	65.962	-27.026	1.00133.61	A16S
ATOM	31146	O4*	C	A1477	157.532	64.696	-27.060	1.00133.61	A16S
ATOM	31147	C1*	C	A1477	157.538	64.111	-25.769	1.00133.61	A16S
ATOM	31148	N1	C	A1477	158.176	62.783	-25.855	1.00198.94	A16S
ATOM	31149	C6	C	A1477	158.933	62.434	-26.940	1.00198.94	A16S
ATOM	31150	C2	C	A1477	157.993	61.872	-24.800	1.00198.94	A16S
ATOM	31151	O2	C	A1477	157.304	62.209	-23.820	1.00198.94	A16S
ATOM	31152	N3	C	A1477	158.571	60.652	-24.876	1.00198.94	A16S
ATOM	31153	C4	C	A1477	159.306	60.326	-25.942	1.00198.94	A16S
ATOM	31154	N4	C	A1477	159.856	59.110	-25.974	1.00198.94	A16S
ATOM	31155	C5	C	A1477	159.510	61.230	-27.024	1.00198.94	A16S
ATOM	31156	C2*	C	A1477	158.250	65.071	-24.813	1.00133.61	A16S
ATOM	31157	O2*	C	A1477	157.286	65.826	-24.102	1.00133.61	A16S
ATOM	31158	C3*	C	A1477	159.101	65.895	-25.777	1.00133.61	A16S
ATOM	31159	O3*	C	A1477	159.371	67.200	-25.277	1.00133.61	A16S
ATOM	31160	P	C	A1478	160.717	67.475	-24.439	1.00139.98	A16S
ATOM	31161	O1P	C	A1478	160.941	68.942	-24.440	1.00179.32	A16S
ATOM	31162	O2P	C	A1478	161.786	66.570	-24.940	1.00179.32	A16S
ATOM	31163	O5*	C	A1478	160.343	67.041	-22.952	1.00139.98	A16S
ATOM	31164	C5*	C	A1478	159.379	67.787	-22.186	1.00139.98	A16S
ATOM	31165	C4*	C	A1478	159.079	67.073	-20.893	1.00139.98	A16S
ATOM	31166	O4*	C	A1478	158.494	65.780	-21.191	1.00139.98	A16S
ATOM	31167	C1*	C	A1478	158.931	64.828	-20.235	1.00139.98	A16S
ATOM	31168	N1	C	A1478	159.638	63.738	-20.932	1.00179.32	A16S
ATOM	31169	C6	C	A1478	160.197	63.931	-22.166	1.00179.32	A16S
ATOM	31170	C2	C	A1478	159.735	62.492	-20.301	1.00179.32	A16S
ATOM	31171	O2	C	A1478	159.215	62.339	-19.182	1.00179.32	A16S
ATOM	31172	N3	C	A1478	160.390	61.486	-20.924	1.00179.32	A16S
ATOM	31173	C4	C	A1478	160.932	61.686	-22.126	1.00179.32	A16S
ATOM	31174	N4	C	A1478	161.567	60.664	-22.702	1.00179.32	A16S
ATOM	31175	C5	C	A1478	160.846	62.942	-22.792	1.00179.32	A16S
ATOM	31176	C2*	C	A1478	159.823	65.547	-19.224	1.00139.98	A16S
ATOM	31177	O2*	C	A1478	159.063	65.890	-18.082	1.00139.98	A16S
ATOM	31178	C3*	C	A1478	160.286	66.757	-20.025	1.00139.98	A16S



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ATOM	31179	O3*	C	A1478	160.636	67.852	-19.188	1.00139.98	A16S
ATOM	31180	P	C	A1479	162.090	67.896	-18.505	1.00198.94	A16S
ATOM	31181	O1P	C	A1479	162.202	69.190	-17.790	1.00149.88	A16S
ATOM	31182	O2P	C	A1479	163.108	67.531	-19.526	1.00149.88	A16S
ATOM	31183	O5*	C	A1479	162.036	66.739	-17.412	1.00198.94	A16S
ATOM	31184	C5*	C	A1479	161.260	66.899	-16.209	1.00198.94	A16S
ATOM	31185	C4*	C	A1479	161.491	65.735	-15.274	1.00198.94	A16S
ATOM	31186	O4*	C	A1479	160.992	64.515	-15.886	1.00198.94	A16S
ATOM	31187	C1*	C	A1479	161.836	63.424	-15.545	1.00198.94	A16S
ATOM	31188	N1	C	A1479	162.457	62.899	-16.784	1.00149.88	A16S
ATOM	31189	C6	C	A1479	162.264	63.522	-17.988	1.00149.88	A16S
ATOM	31190	C2	C	A1479	163.264	61.746	-16.709	1.00149.88	A16S
ATOM	31191	O2	C	A1479	163.429	61.192	-15.610	1.00149.88	A16S
ATOM	31192	N3	C	A1479	163.842	61.269	-17.835	1.00149.88	A16S
ATOM	31193	C4	C	A1479	163.646	61.888	-19.000	1.00149.88	A16S
ATOM	31194	N4	C	A1479	164.239	61.381	-20.084	1.00149.88	A16S
ATOM	31195	C5	C	A1479	162.834	63.056	-19.108	1.00149.88	A16S
ATOM	31196	C2*	C	A1479	162.884	63.952	-14.565	1.00198.94	A16S
ATOM	31197	O2*	C	A1479	162.440	63.765	-13.233	1.00198.94	A16S
ATOM	31198	C3*	C	A1479	162.944	65.420	-14.955	1.00198.94	A16S
ATOM	31199	O3*	C	A1479	163.491	66.227	-13.927	1.00198.94	A16S
ATOM	31200	P	G	A1480	165.081	66.471	-13.885	1.00142.67	A16S
ATOM	31201	O1P	G	A1480	165.341	67.469	-12.819	1.00164.70	A16S
ATOM	31202	O2P	G	A1480	165.559	66.731	-15.270	1.00164.70	A16S
ATOM	31203	O5*	G	A1480	165.673	65.070	-13.408	1.00142.67	A16S
ATOM	31204	C5*	G	A1480	165.384	64.553	-12.091	1.00142.67	A16S
ATOM	31205	C4*	G	A1480	166.103	63.243	-11.873	1.00142.67	A16S
ATOM	31206	O4*	G	A1480	165.575	62.244	-12.782	1.00142.67	A16S
ATOM	31207	C1*	G	A1480	166.619	61.389	-13.210	1.00142.67	A16S
ATOM	31208	N9	G	A1480	166.745	61.499	-14.659	1.00164.70	A16S
ATOM	31209	C4	G	A1480	167.357	60.594	-15.487	1.00164.70	A16S
ATOM	31210	N3	G	A1480	167.945	59.444	-15.101	1.00164.70	A16S
ATOM	31211	C2	G	A1480	168.459	58.784	-16.123	1.00164.70	A16S
ATOM	31212	N2	G	A1480	169.079	57.613	-15.914	1.00164.70	A16S
ATOM	31213	N1	G	A1480	168.404	59.222	-17.424	1.00164.70	A16S
ATOM	31214	C6	G	A1480	167.806	60.405	-17.846	1.00164.70	A16S
ATOM	31215	O6	G	A1480	167.819	60.710	-19.048	1.00164.70	A16S
ATOM	31216	C5	G	A1480	167.245	61.121	-16.755	1.00164.70	A16S
ATOM	31217	N7	G	A1480	166.572	62.334	-16.725	1.00164.70	A16S
ATOM	31218	C8	G	A1480	166.294	62.518	-15.464	1.00164.70	A16S
ATOM	31219	C2*	G	A1480	167.900	61.814	-12.495	1.00142.67	A16S
ATOM	31220	O2*	G	A1480	168.090	61.002	-11.357	1.00142.67	A16S
ATOM	31221	C3*	G	A1480	167.596	63.267	-12.155	1.00142.67	A16S
ATOM	31222	O3*	G	A1480	168.341	63.732	-11.036	1.00142.67	A16S
ATOM	31223	P	U	A1481	169.813	64.340	-11.261	1.00121.40	A16S
ATOM	31224	O1P	U	A1481	170.352	64.688	-9.920	1.00168.52	A16S
ATOM	31225	O2P	U	A1481	169.752	65.383	-12.322	1.00168.52	A16S
ATOM	31226	O5*	U	A1481	170.646	63.108	-11.829	1.00121.40	A16S
ATOM	31227	C5*	U	A1481	170.894	61.947	-11.014	1.00121.40	A16S
ATOM	31228	C4*	U	A1481	171.634	60.906	-11.811	1.00121.40	A16S
ATOM	31229	O4*	U	A1481	170.772	60.387	-12.855	1.00121.40	A16S
ATOM	31230	C1*	U	A1481	171.538	60.134	-14.021	1.00121.40	A16S
ATOM	31231	N1	U	A1481	171.029	60.977	-15.115	1.00168.52	A16S
ATOM	31232	C6	U	A1481	170.228	62.070	-14.871	1.00168.52	A16S
ATOM	31233	C2	U	A1481	171.390	60.637	-16.413	1.00168.52	A16S
ATOM	31234	O2	U	A1481	172.106	59.685	-16.678	1.00168.52	A16S
ATOM	31235	N3	U	A1481	170.885	61.459	-17.388	1.00168.52	A16S
ATOM	31236	C4	U	A1481	170.080	62.562	-17.210	1.00168.52	A16S
ATOM	31237	O4	U	A1481	169.665	63.170	-18.199	1.00168.52	A16S
ATOM	31238	C5	U	A1481	169.757	62.853	-15.845	1.00168.52	A16S
ATOM	31239	C2*	U	A1481	172.996	60.446	-13.695	1.00121.40	A16S
ATOM	31240	O2*	U	A1481	173.655	59.263	-13.301	1.00121.40	A16S
ATOM	31241	C3*	U	A1481	172.845	61.435	-12.554	1.00121.40	A16S
ATOM	31242	O3*	U	A1481	173.991	61.506	-11.732	1.00121.40	A16S
ATOM	31243	P	G	A1482	175.101	62.628	-12.034	1.00131.19	A16S
ATOM	31244	O1P	G	A1482	176.165	62.480	-11.006	1.00188.08	A16S
ATOM	31245	O2P	G	A1482	174.421	63.939	-12.203	1.00188.08	A16S
ATOM	31246	O5*	G	A1482	175.695	62.195	-13.447	1.00131.19	A16S
ATOM	31247	C5*	G	A1482	176.269	60.890	-13.627	1.00131.19	A16S
ATOM	31248	C4*	G	A1482	176.581	60.645	-15.081	1.00131.19	A16S
ATOM	31249	O4*	G	A1482	175.356	60.539	-15.844	1.00131.19	A16S
ATOM	31250	C1*	G	A1482	175.554	61.082	-17.139	1.00131.19	A16S
ATOM	31251	N9	G	A1482	174.593	62.166	-17.327	1.00188.08	A16S
ATOM	31252	C4	G	A1482	174.069	62.612	-18.522	1.00188.08	A16S
ATOM	31253	N3	G	A1482	174.360	62.128	-19.751	1.00188.08	A16S
ATOM	31254	C2	G	A1482	173.691	62.761	-20.702	1.00188.08	A16S
ATOM	31255	N2	G	A1482	173.859	62.413	-21.986	1.00188.08	A16S



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ATOM	31256	N1	G	A1482	172.808	63.784	-20.464	1.00188.08	A16S
ATOM	31257	C6	G	A1482	172.498	64.299	-19.209	1.00188.08	A16S
ATOM	31258	O6	G	A1482	171.690	65.230	-19.106	1.00188.08	A16S
ATOM	31259	C5	G	A1482	173.205	63.631	-18.183	1.00188.08	A16S
ATOM	31260	N7	G	A1482	173.188	63.827	-16.809	1.00188.08	A16S
ATOM	31261	C8	G	A1482	174.024	62.941	-16.344	1.00188.08	A16S
ATOM	31262	C2*	G	A1482	177.016	61.530	-17.247	1.00131.19	A16S
ATOM	31263	O2*	G	A1482	177.780	60.527	-17.896	1.00131.19	A16S
ATOM	31264	C3*	G	A1482	177.394	61.721	-15.780	1.00131.19	A16S
ATOM	31265	O3*	G	A1482	178.780	61.526	-15.516	1.00131.19	A16S
ATOM	31266	P	A	A1483	179.880	62.352	-16.342	1.00143.36	A16S
ATOM	31267	O1P	A	A1483	181.039	62.563	-15.435	1.00155.65	A16S
ATOM	31268	O2P	A	A1483	179.231	63.523	-16.987	1.00155.65	A16S
ATOM	31269	O5*	A	A1483	180.323	61.331	-17.479	1.00143.36	A16S
ATOM	31270	C5*	A	A1483	181.024	60.121	-17.144	1.00143.36	A16S
ATOM	31271	C4*	A	A1483	181.711	59.569	-18.364	1.00143.36	A16S
ATOM	31272	O4*	A	A1483	180.708	59.155	-19.325	1.00143.36	A16S
ATOM	31273	C1*	A	A1483	181.174	59.412	-20.641	1.00143.36	A16S
ATOM	31274	N9	A	A1483	180.265	60.363	-21.274	1.00155.65	A16S
ATOM	31275	C4	A	A1483	180.032	60.470	-22.622	1.00155.65	A16S
ATOM	31276	N3	A	A1483	180.559	59.716	-23.601	1.00155.65	A16S
ATOM	31277	C2	A	A1483	180.109	60.110	-24.787	1.00155.65	A16S
ATOM	31278	N1	A	A1483	179.258	61.103	-25.083	1.00155.65	A16S
ATOM	31279	C6	A	A1483	178.754	61.846	-24.071	1.00155.65	A16S
ATOM	31280	N6	A	A1483	177.920	62.846	-24.362	1.00155.65	A16S
ATOM	31281	C5	A	A1483	179.146	61.521	-22.766	1.00155.65	A16S
ATOM	31282	N7	A	A1483	178.814	62.059	-21.531	1.00155.65	A16S
ATOM	31283	C8	A	A1483	179.499	61.337	-20.681	1.00155.65	A16S
ATOM	31284	C2*	A	A1483	182.583	59.998	-20.539	1.00143.36	A16S
ATOM	31285	O2*	A	A1483	183.564	58.998	-20.748	1.00143.36	A16S
ATOM	31286	C3*	A	A1483	182.573	60.563	-19.126	1.00143.36	A16S
ATOM	31287	O3*	A	A1483	183.876	60.688	-18.592	1.00143.36	A16S
ATOM	31288	P	C	A1484	184.541	62.142	-18.483	1.00126.49	A16S
ATOM	31289	O1P	C	A1484	185.996	61.944	-18.284	1.00150.31	A16S
ATOM	31290	O2P	C	A1484	183.761	62.922	-17.485	1.00150.31	A16S
ATOM	31291	O5*	C	A1484	184.319	62.785	-19.926	1.00126.49	A16S
ATOM	31292	C5*	C	A1484	184.950	62.223	-21.093	1.00126.49	A16S
ATOM	31293	C4*	C	A1484	184.455	62.916	-22.340	1.00126.49	A16S
ATOM	31294	O4*	C	A1484	183.024	62.715	-22.462	1.00126.49	A16S
ATOM	31295	C1*	C	A1484	182.422	63.878	-23.011	1.00126.49	A16S
ATOM	31296	N1	C	A1484	181.481	64.432	-22.022	1.00150.31	A16S
ATOM	31297	C6	C	A1484	181.676	64.242	-20.681	1.00150.31	A16S
ATOM	31298	C2	C	A1484	180.387	65.173	-22.475	1.00150.31	A16S
ATOM	31299	O2	C	A1484	180.223	65.316	-23.694	1.00150.31	A16S
ATOM	31300	N3	C	A1484	179.538	65.714	-21.574	1.00150.31	A16S
ATOM	31301	C4	C	A1484	179.747	65.534	-20.268	1.00150.31	A16S
ATOM	31302	N4	C	A1484	178.893	66.099	-19.414	1.00150.31	A16S
ATOM	31303	C5	C	A1484	180.842	64.771	-19.780	1.00150.31	A16S
ATOM	31304	C2*	C	A1484	183.536	64.875	-23.326	1.00126.49	A16S
ATOM	31305	O2*	C	A1484	183.930	64.771	-24.682	1.00126.49	A16S
ATOM	31306	C3*	C	A1484	184.625	64.426	-22.366	1.00126.49	A16S
ATOM	31307	O3*	C	A1484	185.903	64.821	-22.824	1.00126.49	A16S
ATOM	31308	P	U	A1485	186.452	66.284	-22.456	1.00136.23	A16S
ATOM	31309	O1P	U	A1485	187.797	66.415	-23.084	1.00140.35	A16S
ATOM	31310	O2P	U	A1485	186.302	66.483	-20.984	1.00140.35	A16S
ATOM	31311	O5*	U	A1485	185.442	67.277	-23.194	1.00136.23	A16S
ATOM	31312	C5*	U	A1485	185.429	67.400	-24.632	1.00136.23	A16S
ATOM	31313	C4*	U	A1485	184.301	68.307	-25.072	1.00136.23	A16S
ATOM	31314	O4*	U	A1485	183.056	67.784	-24.539	1.00136.23	A16S
ATOM	31315	C1*	U	A1485	182.174	68.853	-24.244	1.00136.23	A16S
ATOM	31316	N1	U	A1485	181.858	68.843	-22.808	1.00140.35	A16S
ATOM	31317	C6	U	A1485	182.632	68.169	-21.890	1.00140.35	A16S
ATOM	31318	C2	U	A1485	180.752	69.565	-22.408	1.00140.35	A16S
ATOM	31319	O2	U	A1485	180.030	70.155	-23.194	1.00140.35	A16S
ATOM	31320	N3	U	A1485	180.520	69.575	-21.058	1.00140.35	A16S
ATOM	31321	C4	U	A1485	181.259	68.944	-20.087	1.00140.35	A16S
ATOM	31322	O4	U	A1485	180.947	69.090	-18.905	1.00140.35	A16S
ATOM	31323	C5	U	A1485	182.378	68.194	-20.579	1.00140.35	A16S
ATOM	31324	C2*	U	A1485	182.869	70.155	-24.633	1.00136.23	A16S
ATOM	31325	O2*	U	A1485	182.451	70.568	-25.919	1.00136.23	A16S
ATOM	31326	C3*	U	A1485	184.333	69.748	-24.576	1.00136.23	A16S
ATOM	31327	O3*	U	A1485	185.134	70.615	-25.368	1.00136.23	A16S
ATOM	31328	P	G	A1486	185.518	72.074	-24.803	1.00115.49	A16S
ATOM	31329	O1P	G	A1486	186.490	72.690	-25.744	1.00111.69	A16S
ATOM	31330	O2P	G	A1486	185.866	71.956	-23.358	1.00111.69	A16S
ATOM	31331	O5*	G	A1486	184.159	72.898	-24.914	1.00115.49	A16S
ATOM	31332	C5*	G	A1486	183.733	73.459	-26.173	1.00115.49	A16S



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ATOM	31333	C4*	G	A1486	182.804	74.630	-25.939	1.00115.49	A16S
ATOM	31334	O4*	G	A1486	181.552	74.164	-25.363	1.00115.49	A16S
ATOM	31335	C1*	G	A1486	181.060	75.128	-24.442	1.00115.49	A16S
ATOM	31336	N9	G	A1486	181.011	74.521	-23.113	1.00111.69	A16S
ATOM	31337	C4	G	A1486	180.107	74.811	-22.121	1.00111.69	A16S
ATOM	31338	N3	G	A1486	179.104	75.709	-22.204	1.00111.69	A16S
ATOM	31339	C2	G	A1486	178.397	75.761	-21.091	1.00111.69	A16S
ATOM	31340	N2	G	A1486	177.350	76.598	-21.009	1.00111.69	A16S
ATOM	31341	N1	G	A1486	178.659	74.993	-19.976	1.00111.69	A16S
ATOM	31342	C6	G	A1486	179.689	74.059	-19.868	1.00111.69	A16S
ATOM	31343	O6	G	A1486	179.834	73.406	-18.815	1.00111.69	A16S
ATOM	31344	C5	G	A1486	180.454	73.995	-21.060	1.00111.69	A16S
ATOM	31345	N7	G	A1486	181.559	73.215	-21.377	1.00111.69	A16S
ATOM	31346	C8	G	A1486	181.855	73.558	-22.600	1.00111.69	A16S
ATOM	31347	C2*	G	A1486	182.009	76.324	-24.476	1.00115.49	A16S
ATOM	31348	O2*	G	A1486	181.513	77.298	-25.373	1.00115.49	A16S
ATOM	31349	C3*	G	A1486	183.300	75.676	-24.955	1.00115.49	A16S
ATOM	31350	O3*	G	A1486	184.193	76.608	-25.534	1.00115.49	A16S
ATOM	31351	P	G	A1487	185.258	77.356	-24.594	1.00123.49	A16S
ATOM	31352	O1P	G	A1487	186.247	78.002	-25.496	1.00121.55	A16S
ATOM	31353	O2P	G	A1487	185.728	76.399	-23.551	1.00121.55	A16S
ATOM	31354	O5*	G	A1487	184.404	78.490	-23.864	1.00123.49	A16S
ATOM	31355	C5*	G	A1487	183.797	79.551	-24.623	1.00123.49	A16S
ATOM	31356	C4*	G	A1487	182.551	80.064	-23.935	1.00123.49	A16S
ATOM	31357	O4*	G	A1487	181.735	78.938	-23.513	1.00123.49	A16S
ATOM	31358	C1*	G	A1487	180.990	79.294	-22.364	1.00123.49	A16S
ATOM	31359	N9	G	A1487	181.327	78.398	-21.262	1.00121.55	A16S
ATOM	31360	C4	G	A1487	180.564	78.189	-20.137	1.00121.55	A16S
ATOM	31361	N3	G	A1487	179.366	78.754	-19.878	1.00121.55	A16S
ATOM	31362	C2	G	A1487	178.876	78.363	-18.719	1.00121.55	A16S
ATOM	31363	N2	G	A1487	177.686	78.823	-18.315	1.00121.55	A16S
ATOM	31364	N1	G	A1487	179.512	77.493	-17.875	1.00121.55	A16S
ATOM	31365	C6	G	A1487	180.745	76.900	-18.115	1.00121.55	A16S
ATOM	31366	O6	G	A1487	181.228	76.127	-17.281	1.00121.55	A16S
ATOM	31367	C5	G	A1487	181.283	77.307	-19.364	1.00121.55	A16S
ATOM	31368	N7	G	A1487	182.474	76.961	-19.989	1.00121.55	A16S
ATOM	31369	C8	G	A1487	182.455	77.628	-21.113	1.00121.55	A16S
ATOM	31370	C2*	G	A1487	181.342	80.736	-22.017	1.00123.49	A16S
ATOM	31371	O2*	G	A1487	180.378	81.583	-22.607	1.00123.49	A16S
ATOM	31372	C3*	G	A1487	182.710	80.889	-22.666	1.00123.49	A16S
ATOM	31373	O3*	G	A1487	182.985	82.261	-22.930	1.00123.49	A16S
ATOM	31374	P	G	A1488	183.429	83.230	-21.720	1.00 84.76	A16S
ATOM	31375	O1P	G	A1488	183.600	84.604	-22.272	1.00133.29	A16S
ATOM	31376	O2P	G	A1488	184.551	82.592	-20.983	1.00133.29	A16S
ATOM	31377	O5*	G	A1488	182.168	83.234	-20.750	1.00 84.76	A16S
ATOM	31378	C5*	G	A1488	180.923	83.823	-21.164	1.00 84.76	A16S
ATOM	31379	C4*	G	A1488	179.915	83.761	-20.044	1.00 84.76	A16S
ATOM	31380	O4*	G	A1488	179.635	82.377	-19.707	1.00 84.76	A16S
ATOM	31381	C1*	G	A1488	179.381	82.267	-18.315	1.00 84.76	A16S
ATOM	31382	N9	G	A1488	180.389	81.398	-17.721	1.00133.29	A16S
ATOM	31383	C4	G	A1488	180.336	80.841	-16.468	1.00133.29	A16S
ATOM	31384	N3	G	A1488	179.323	80.969	-15.587	1.00133.29	A16S
ATOM	31385	C2	G	A1488	179.566	80.330	-14.456	1.00133.29	A16S
ATOM	31386	N2	G	A1488	178.650	80.334	-13.477	1.00133.29	A16S
ATOM	31387	N1	G	A1488	180.721	79.632	-14.205	1.00133.29	A16S
ATOM	31388	C6	G	A1488	181.778	79.488	-15.097	1.00133.29	A16S
ATOM	31389	O6	G	A1488	182.776	78.838	-14.768	1.00133.29	A16S
ATOM	31390	C5	G	A1488	181.522	80.158	-16.321	1.00133.29	A16S
ATOM	31391	N7	G	A1488	182.295	80.264	-17.468	1.00133.29	A16S
ATOM	31392	C8	G	A1488	181.582	81.002	-18.272	1.00133.29	A16S
ATOM	31393	C2*	G	A1488	179.465	83.671	-17.718	1.00 84.76	A16S
ATOM	31394	O2*	G	A1488	178.167	84.226	-17.644	1.00 84.76	A16S
ATOM	31395	C3*	G	A1488	180.361	84.374	-18.728	1.00 84.76	A16S
ATOM	31396	O3*	G	A1488	180.231	85.786	-18.721	1.00 84.76	A16S
ATOM	31397	P	G	A1489	181.275	86.675	-17.875	1.00 89.38	A16S
ATOM	31398	O1P	G	A1489	181.277	88.044	-18.464	1.00114.93	A16S
ATOM	31399	O2P	G	A1489	182.560	85.927	-17.762	1.00114.93	A16S
ATOM	31400	O5*	G	A1489	180.603	86.747	-16.431	1.00 89.38	A16S
ATOM	31401	C5*	G	A1489	179.257	87.243	-16.267	1.00 89.38	A16S
ATOM	31402	C4*	G	A1489	178.765	86.956	-14.872	1.00 89.38	A16S
ATOM	31403	O4*	G	A1489	178.636	85.526	-14.692	1.00 89.38	A16S
ATOM	31404	C1*	G	A1489	179.113	85.157	-13.409	1.00 89.38	A16S
ATOM	31405	N9	G	A1489	180.270	84.285	-13.606	1.00114.93	A16S
ATOM	31406	C4	G	A1489	180.847	83.457	-12.673	1.00114.93	A16S
ATOM	31407	N3	G	A1489	180.449	83.304	-11.396	1.00114.93	A16S
ATOM	31408	C2	G	A1489	181.197	82.433	-10.748	1.00114.93	A16S
ATOM	31409	N2	G	A1489	180.932	82.157	-9.468	1.00114.93	A16S



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ATOM	31410	N1	G	A1489	182.258	81.768	-11.306	1.00114.93	A16S
ATOM	31411	C6	G	A1489	182.688	81.909	-12.617	1.00114.93	A16S
ATOM	31412	O6	G	A1489	183.658	81.261	-13.019	1.00114.93	A16S
ATOM	31413	C5	G	A1489	181.890	82.838	-13.328	1.00114.93	A16S
ATOM	31414	N7	G	A1489	181.969	83.267	-14.645	1.00114.93	A16S
ATOM	31415	C8	G	A1489	180.994	84.125	-14.764	1.00114.93	A16S
ATOM	31416	C2*	G	A1489	179.442	86.445	-12.647	1.00 89.38	A16S
ATOM	31417	O2*	G	A1489	178.340	86.851	-11.859	1.00 89.38	A16S
ATOM	31418	C3*	G	A1489	179.729	87.403	-13.791	1.00 89.38	A16S
ATOM	31419	O3*	G	A1489	179.515	88.754	-13.455	1.00 89.38	A16S
ATOM	31420	P	C	A1490	180.739	89.622	-12.916	1.00135.63	A16S
ATOM	31421	O1P	C	A1490	180.254	91.015	-12.803	1.00109.47	A16S
ATOM	31422	O2P	C	A1490	181.943	89.329	-13.725	1.00109.47	A16S
ATOM	31423	O5*	C	A1490	180.967	89.028	-11.461	1.00135.63	A16S
ATOM	31424	C5*	C	A1490	179.895	89.023	-10.500	1.00135.63	A16S
ATOM	31425	C4*	C	A1490	180.332	88.333	-9.231	1.00135.63	A16S
ATOM	31426	O4*	C	A1490	180.441	86.905	-9.459	1.00135.63	A16S
ATOM	31427	C1*	C	A1490	181.528	86.384	-8.707	1.00135.63	A16S
ATOM	31428	N1	C	A1490	182.514	85.809	-9.647	1.00109.47	A16S
ATOM	31429	C6	C	A1490	182.637	86.298	-10.919	1.00109.47	A16S
ATOM	31430	C2	C	A1490	183.330	84.748	-9.215	1.00109.47	A16S
ATOM	31431	O2	C	A1490	183.217	84.325	-8.048	1.00109.47	A16S
ATOM	31432	N3	C	A1490	184.222	84.216	-10.076	1.00109.47	A16S
ATOM	31433	C4	C	A1490	184.328	84.702	-11.313	1.00109.47	A16S
ATOM	31434	N4	C	A1490	185.222	84.142	-12.124	1.00109.47	A16S
ATOM	31435	C5	C	A1490	183.522	85.780	-11.773	1.00109.47	A16S
ATOM	31436	C2*	C	A1490	182.109	87.532	-7.879	1.00135.63	A16S
ATOM	31437	O2*	C	A1490	181.531	87.550	-6.585	1.00135.63	A16S
ATOM	31438	C3*	C	A1490	181.700	88.738	-8.710	1.00135.63	A16S
ATOM	31439	O3*	C	A1490	181.669	89.932	-7.957	1.00135.63	A16S
ATOM	31440	P	G	A1491	183.006	90.804	-7.824	1.00181.84	A16S
ATOM	31441	O1P	G	A1491	182.643	91.934	-6.939	1.00116.37	A16S
ATOM	31442	O2P	G	A1491	183.562	91.077	-9.180	1.00116.37	A16S
ATOM	31443	O5*	G	A1491	184.004	89.832	-7.047	1.00181.84	A16S
ATOM	31444	C5*	G	A1491	183.637	89.280	-5.763	1.00181.84	A16S
ATOM	31445	C4*	G	A1491	184.636	88.232	-5.319	1.00181.84	A16S
ATOM	31446	O4*	G	A1491	184.602	87.084	-6.204	1.00181.84	A16S
ATOM	31447	C1*	G	A1491	185.899	86.516	-6.299	1.00181.84	A16S
ATOM	31448	N9	G	A1491	186.327	86.558	-7.693	1.00116.37	A16S
ATOM	31449	C4	G	A1491	187.408	85.902	-8.239	1.00116.37	A16S
ATOM	31450	N3	G	A1491	188.252	85.073	-7.584	1.00116.37	A16S
ATOM	31451	C2	G	A1491	189.199	84.604	-8.381	1.00116.37	A16S
ATOM	31452	N2	G	A1491	190.113	83.753	-7.907	1.00116.37	A16S
ATOM	31453	N1	G	A1491	189.318	84.931	-9.706	1.00116.37	A16S
ATOM	31454	C6	G	A1491	188.469	85.786	-10.398	1.00116.37	A16S
ATOM	31455	O6	G	A1491	188.678	86.027	-11.593	1.00116.37	A16S
ATOM	31456	C5	G	A1491	187.436	86.284	-9.563	1.00116.37	A16S
ATOM	31457	N7	G	A1491	186.384	87.143	-9.850	1.00116.37	A16S
ATOM	31458	C8	G	A1491	185.753	87.275	-8.716	1.00116.37	A16S
ATOM	31459	C2*	G	A1491	186.834	87.330	-5.401	1.00181.84	A16S
ATOM	31460	O2*	G	A1491	186.982	86.680	-4.155	1.00181.84	A16S
ATOM	31461	C3*	G	A1491	186.093	88.658	-5.299	1.00181.84	A16S
ATOM	31462	O3*	G	A1491	186.411	89.361	-4.106	1.00181.84	A16S
ATOM	31463	P	A	A1492	187.662	90.367	-4.088	1.00179.04	A16S
ATOM	31464	O1P	A	A1492	187.529	91.190	-2.856	1.00198.02	A16S
ATOM	31465	O2P	A	A1492	187.755	91.038	-5.417	1.00198.02	A16S
ATOM	31466	O5*	A	A1492	188.915	89.396	-3.907	1.00179.04	A16S
ATOM	31467	C5*	A	A1492	190.146	89.609	-4.637	1.00179.04	A16S
ATOM	31468	C4*	A	A1492	191.330	89.127	-3.824	1.00179.04	A16S
ATOM	31469	O4*	A	A1492	191.084	87.778	-3.363	1.00179.04	A16S
ATOM	31470	C1*	A	A1492	192.292	87.044	-3.369	1.00179.04	A16S
ATOM	31471	N9	A	A1492	192.068	85.808	-4.126	1.00198.02	A16S
ATOM	31472	C4	A	A1492	192.921	84.733	-4.242	1.00198.02	A16S
ATOM	31473	N3	A	A1492	194.157	84.608	-3.727	1.00198.02	A16S
ATOM	31474	C2	A	A1492	194.673	83.416	-4.026	1.00198.02	A16S
ATOM	31475	N1	A	A1492	194.133	82.407	-4.724	1.00198.02	A16S
ATOM	31476	C6	A	A1492	192.889	82.562	-5.225	1.00198.02	A16S
ATOM	31477	N6	A	A1492	192.347	81.551	-5.909	1.00198.02	A16S
ATOM	31478	C5	A	A1492	192.235	83.786	-4.986	1.00198.02	A16S
ATOM	31479	N7	A	A1492	190.986	84.264	-5.357	1.00198.02	A16S
ATOM	31480	C8	A	A1492	190.939	85.464	-4.834	1.00198.02	A16S
ATOM	31481	C2*	A	A1492	193.421	87.969	-3.842	1.00179.04	A16S
ATOM	31482	O2*	A	A1492	194.133	88.461	-2.721	1.00179.04	A16S
ATOM	31483	C3*	A	A1492	192.653	89.068	-4.574	1.00179.04	A16S
ATOM	31484	O3*	A	A1492	193.319	90.322	-4.464	1.00179.04	A16S
ATOM	31485	P	A	A1493	193.669	91.169	-5.785	1.00198.94	A16S
ATOM	31486	O1P	A	A1493	193.438	92.597	-5.452	1.00198.63	A16S



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ATOM	31487	O2P	A	A1493	192.994	90.570	-6.971	1.00198.63	A16S
ATOM	31488	O5*	A	A1493	195.236	90.963	-5.961	1.00198.94	A16S
ATOM	31489	C5*	A	A1493	196.151	91.250	-4.884	1.00198.94	A16S
ATOM	31490	C4*	A	A1493	197.302	90.272	-4.912	1.00198.94	A16S
ATOM	31491	O4*	A	A1493	196.779	88.947	-4.607	1.00198.94	A16S
ATOM	31492	C1*	A	A1493	197.355	87.975	-5.475	1.00198.94	A16S
ATOM	31493	N9	A	A1493	196.285	87.399	-6.296	1.00198.63	A16S
ATOM	31494	C4	A	A1493	196.274	86.148	-6.869	1.00198.63	A16S
ATOM	31495	N3	A	A1493	197.227	85.202	-6.791	1.00198.63	A16S
ATOM	31496	C2	A	A1493	196.871	84.118	-7.478	1.00198.63	A16S
ATOM	31497	N1	A	A1493	195.756	83.890	-8.181	1.00198.63	A16S
ATOM	31498	C6	A	A1493	194.820	84.863	-8.240	1.00198.63	A16S
ATOM	31499	N6	A	A1493	193.710	84.644	-8.944	1.00198.63	A16S
ATOM	31500	C5	A	A1493	195.075	86.059	-7.554	1.00198.63	A16S
ATOM	31501	N7	A	A1493	194.340	87.228	-7.415	1.00198.63	A16S
ATOM	31502	C8	A	A1493	195.097	87.988	-6.664	1.00198.63	A16S
ATOM	31503	C2*	A	A1493	198.438	88.659	-6.311	1.00198.94	A16S
ATOM	31504	O2*	A	A1493	199.707	88.449	-5.718	1.00198.94	A16S
ATOM	31505	C3*	A	A1493	197.982	90.112	-6.267	1.00198.94	A16S
ATOM	31506	O3*	A	A1493	197.582	90.902	-7.393	1.00198.94	A16S
ATOM	31507	P	G	A1494	198.643	91.279	-8.550	1.00116.13	A16S
ATOM	31508	O1P	G	A1494	199.799	91.955	-7.898	1.00109.37	A16S
ATOM	31509	O2P	G	A1494	197.894	91.985	-9.630	1.00109.37	A16S
ATOM	31510	O5*	G	A1494	199.159	89.881	-9.114	1.00116.13	A16S
ATOM	31511	C5*	G	A1494	200.281	89.213	-8.510	1.00116.13	A16S
ATOM	31512	C4*	G	A1494	200.581	87.938	-9.243	1.00116.13	A16S
ATOM	31513	O4*	G	A1494	199.367	87.146	-9.347	1.00116.13	A16S
ATOM	31514	C1*	G	A1494	199.329	86.479	-10.603	1.00116.13	A16S
ATOM	31515	N9	G	A1494	198.173	86.966	-11.359	1.00109.37	A16S
ATOM	31516	C4	G	A1494	197.698	86.461	-12.555	1.00109.37	A16S
ATOM	31517	N3	G	A1494	198.179	85.383	-13.211	1.00109.37	A16S
ATOM	31518	C2	G	A1494	197.543	85.171	-14.354	1.00109.37	A16S
ATOM	31519	N2	G	A1494	197.889	84.135	-15.125	1.00109.37	A16S
ATOM	31520	N1	G	A1494	196.522	85.957	-14.823	1.00109.37	A16S
ATOM	31521	C6	G	A1494	196.012	87.076	-14.174	1.00109.37	A16S
ATOM	31522	O6	G	A1494	195.103	87.732	-14.704	1.00109.37	A16S
ATOM	31523	C5	G	A1494	196.676	87.308	-12.929	1.00109.37	A16S
ATOM	31524	N7	G	A1494	196.479	88.296	-11.972	1.00109.37	A16S
ATOM	31525	C8	G	A1494	197.377	88.047	-11.056	1.00109.37	A16S
ATOM	31526	C2*	G	A1494	200.640	86.808	-11.323	1.00116.13	A16S
ATOM	31527	O2*	G	A1494	201.607	85.803	-11.085	1.00116.13	A16S
ATOM	31528	C3*	G	A1494	201.014	88.134	-10.679	1.00116.13	A16S
ATOM	31529	O3*	G	A1494	202.389	88.439	-10.779	1.00116.13	A16S
ATOM	31530	P	U	A1495	202.895	89.374	-11.982	1.00 86.39	A16S
ATOM	31531	O1P	U	A1495	204.374	89.492	-11.883	1.00 99.61	A16S
ATOM	31532	O2P	U	A1495	202.062	90.600	-12.013	1.00 99.61	A16S
ATOM	31533	O5*	U	A1495	202.562	88.512	-13.275	1.00 86.39	A16S
ATOM	31534	C5*	U	A1495	203.116	87.194	-13.435	1.00 86.39	A16S
ATOM	31535	C4*	U	A1495	202.813	86.671	-14.811	1.00 86.39	A16S
ATOM	31536	O4*	U	A1495	201.415	86.306	-14.922	1.00 86.39	A16S
ATOM	31537	C1*	U	A1495	200.949	86.600	-16.228	1.00 86.39	A16S
ATOM	31538	N1	U	A1495	199.782	87.493	-16.126	1.00 99.61	A16S
ATOM	31539	C6	U	A1495	199.613	88.334	-15.044	1.00 99.61	A16S
ATOM	31540	C2	U	A1495	198.845	87.465	-17.158	1.00 99.61	A16S
ATOM	31541	O2	U	A1495	198.949	86.742	-18.147	1.00 99.61	A16S
ATOM	31542	N3	U	A1495	197.780	88.322	-16.993	1.00 99.61	A16S
ATOM	31543	C4	U	A1495	197.556	89.191	-15.938	1.00 99.61	A16S
ATOM	31544	O4	U	A1495	196.548	89.914	-15.945	1.00 99.61	A16S
ATOM	31545	C5	U	A1495	198.565	89.160	-14.921	1.00 99.61	A16S
ATOM	31546	C2*	U	A1495	202.119	87.193	-17.019	1.00 86.39	A16S
ATOM	31547	O2*	U	A1495	202.745	86.195	-17.795	1.00 86.39	A16S
ATOM	31548	C3*	U	A1495	203.026	87.690	-15.906	1.00 86.39	A16S
ATOM	31549	O3*	U	A1495	204.382	87.760	-16.285	1.00 86.39	A16S
ATOM	31550	P	C	A1496	204.958	89.135	-16.870	1.00 80.00	A16S
ATOM	31551	O1P	C	A1496	206.437	89.006	-16.897	1.00 89.52	A16S
ATOM	31552	O2P	C	A1496	204.336	90.270	-16.136	1.00 89.52	A16S
ATOM	31553	O5*	C	A1496	204.397	89.153	-18.360	1.00 80.00	A16S
ATOM	31554	C5*	C	A1496	204.808	88.156	-19.307	1.00 80.00	A16S
ATOM	31555	C4*	C	A1496	204.011	88.284	-20.579	1.00 80.00	A16S
ATOM	31556	O4*	C	A1496	202.644	87.875	-20.335	1.00 80.00	A16S
ATOM	31557	C1*	C	A1496	201.761	88.694	-21.082	1.00 80.00	A16S
ATOM	31558	N1	C	A1496	200.945	89.476	-20.133	1.00 89.52	A16S
ATOM	31559	C6	C	A1496	201.397	89.732	-18.866	1.00 89.52	A16S
ATOM	31560	C2	C	A1496	199.694	89.958	-20.549	1.00 89.52	A16S
ATOM	31561	O2	C	A1496	199.313	89.731	-21.709	1.00 89.52	A16S
ATOM	31562	N3	C	A1496	198.937	90.659	-19.675	1.00 89.52	A16S
ATOM	31563	C4	C	A1496	199.382	90.884	-18.434	1.00 89.52	A16S



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ATOM	31564	N4	C	A1496	198.589	91.555	-17.595	1.00	89.52	A16S
ATOM	31565	C5	C	A1496	200.658	90.424	-17.995	1.00	89.52	A16S
ATOM	31566	C2*	C	A1496	202.617	89.605	-21.961	1.00	80.00	A16S
ATOM	31567	O2*	C	A1496	202.842	88.990	-23.215	1.00	80.00	A16S
ATOM	31568	C3*	C	A1496	203.894	89.690	-21.145	1.00	80.00	A16S
ATOM	31569	O3*	C	A1496	205.003	90.057	-21.946	1.00	80.00	A16S
ATOM	31570	P	G	A1497	205.586	91.550	-21.847	1.00	77.13	A16S
ATOM	31571	O1P	G	A1497	206.783	91.569	-22.732	1.00	90.38	A16S
ATOM	31572	O2P	G	A1497	205.724	91.910	-20.410	1.00	90.38	A16S
ATOM	31573	O5*	G	A1497	204.451	92.466	-22.497	1.00	77.13	A16S
ATOM	31574	C5*	G	A1497	204.394	92.623	-23.926	1.00	77.13	A16S
ATOM	31575	C4*	G	A1497	202.991	92.950	-24.400	1.00	77.13	A16S
ATOM	31576	O4*	G	A1497	201.993	92.209	-23.643	1.00	77.13	A16S
ATOM	31577	C1*	G	A1497	200.746	92.872	-23.750	1.00	77.13	A16S
ATOM	31578	N9	G	A1497	200.210	93.138	-22.422	1.00	90.38	A16S
ATOM	31579	C4	G	A1497	198.933	93.572	-22.146	1.00	90.38	A16S
ATOM	31580	N3	G	A1497	197.949	93.764	-23.050	1.00	90.38	A16S
ATOM	31581	C2	G	A1497	196.835	94.199	-22.484	1.00	90.38	A16S
ATOM	31582	N2	G	A1497	195.743	94.408	-23.235	1.00	90.38	A16S
ATOM	31583	N1	G	A1497	196.707	94.453	-21.142	1.00	90.38	A16S
ATOM	31584	C6	G	A1497	197.711	94.281	-20.199	1.00	90.38	A16S
ATOM	31585	O6	G	A1497	197.498	94.571	-19.019	1.00	90.38	A16S
ATOM	31586	C5	G	A1497	198.903	93.780	-20.789	1.00	90.38	A16S
ATOM	31587	N7	G	A1497	200.122	93.447	-20.214	1.00	90.38	A16S
ATOM	31588	C8	G	A1497	200.862	93.063	-21.219	1.00	90.38	A16S
ATOM	31589	C2*	G	A1497	200.994	94.191	-24.482	1.00	77.13	A16S
ATOM	31590	O2*	G	A1497	200.678	94.030	-25.847	1.00	77.13	A16S
ATOM	31591	C3*	G	A1497	202.492	94.382	-24.311	1.00	77.13	A16S
ATOM	31592	O3*	G	A1497	202.974	95.188	-25.376	1.00	77.13	A16S
ATOM	31593	P	U	A1498	203.033	96.784	-25.199	1.00	62.64	A16S
ATOM	31594	O1P	U	A1498	203.537	97.386	-26.466	1.00	61.52	A16S
ATOM	31595	O2P	U	A1498	203.740	97.073	-23.924	1.00	61.52	A16S
ATOM	31596	O5*	U	A1498	201.506	97.210	-25.002	1.00	62.64	A16S
ATOM	31597	C5*	U	A1498	200.476	96.728	-25.899	1.00	62.64	A16S
ATOM	31598	C4*	U	A1498	199.135	97.366	-25.588	1.00	62.64	A16S
ATOM	31599	O4*	U	A1498	198.669	96.991	-24.263	1.00	62.64	A16S
ATOM	31600	C1*	U	A1498	198.339	98.142	-23.504	1.00	62.64	A16S
ATOM	31601	N1	U	A1498	198.737	97.877	-22.110	1.00	61.52	A16S
ATOM	31602	C6	U	A1498	199.905	97.221	-21.820	1.00	61.52	A16S
ATOM	31603	C2	U	A1498	197.883	98.273	-21.095	1.00	61.52	A16S
ATOM	31604	O2	U	A1498	196.865	98.908	-21.295	1.00	61.52	A16S
ATOM	31605	N3	U	A1498	198.267	97.903	-19.828	1.00	61.52	A16S
ATOM	31606	C4	U	A1498	199.405	97.215	-19.475	1.00	61.52	A16S
ATOM	31607	O4	U	A1498	199.596	96.906	-18.290	1.00	61.52	A16S
ATOM	31608	C5	U	A1498	200.257	96.885	-20.575	1.00	61.52	A16S
ATOM	31609	C2*	U	A1498	198.998	99.352	-24.167	1.00	62.64	A16S
ATOM	31610	O2*	U	A1498	198.129	100.453	-24.005	1.00	62.64	A16S
ATOM	31611	C3*	U	A1498	199.114	98.873	-25.613	1.00	62.64	A16S
ATOM	31612	O3*	U	A1498	198.963	99.575	-26.849	1.00	62.64	A16S
ATOM	31613	P	A	A1499	197.519	100.087	-27.333	1.00	53.56	A16S
ATOM	31614	O1P	A	A1499	197.770	100.862	-28.589	1.00	63.87	A16S
ATOM	31615	O2P	A	A1499	196.801	100.744	-26.196	1.00	63.87	A16S
ATOM	31616	O5*	A	A1499	196.725	98.756	-27.697	1.00	53.56	A16S
ATOM	31617	C5*	A	A1499	196.030	98.643	-28.954	1.00	53.56	A16S
ATOM	31618	C4*	A	A1499	194.529	98.737	-28.751	1.00	53.56	A16S
ATOM	31619	O4*	A	A1499	194.083	97.647	-27.906	1.00	53.56	A16S
ATOM	31620	C1*	A	A1499	193.028	98.087	-27.076	1.00	53.56	A16S
ATOM	31621	N9	A	A1499	193.506	98.019	-25.700	1.00	63.87	A16S
ATOM	31622	C4	A	A1499	192.797	98.303	-24.559	1.00	63.87	A16S
ATOM	31623	N3	A	A1499	191.524	98.711	-24.468	1.00	63.87	A16S
ATOM	31624	C2	A	A1499	191.182	98.886	-23.199	1.00	63.87	A16S
ATOM	31625	N1	A	A1499	191.906	98.713	-22.097	1.00	63.87	A16S
ATOM	31626	C6	A	A1499	193.176	98.300	-22.229	1.00	63.87	A16S
ATOM	31627	N6	A	A1499	193.903	98.113	-21.135	1.00	63.87	A16S
ATOM	31628	C5	A	A1499	193.664	98.084	-23.516	1.00	63.87	A16S
ATOM	31629	N7	A	A1499	194.902	97.677	-23.985	1.00	63.87	A16S
ATOM	31630	C8	A	A1499	194.757	97.656	-25.283	1.00	63.87	A16S
ATOM	31631	C2*	A	A1499	192.681	99.516	-27.491	1.00	53.56	A16S
ATOM	31632	O2*	A	A1499	191.672	99.460	-28.472	1.00	53.56	A16S
ATOM	31633	C3*	A	A1499	193.999	99.991	-28.073	1.00	53.56	A16S
ATOM	31634	O3*	A	A1499	193.789	101.037	-29.001	1.00	53.56	A16S
ATOM	31635	P	A	A1500	193.716	102.545	-28.477	1.00	44.75	A16S
ATOM	31636	O1P	A	A1500	193.570	103.442	-29.648	1.00	71.60	A16S
ATOM	31637	O2P	A	A1500	194.828	102.765	-27.514	1.00	71.60	A16S
ATOM	31638	O5*	A	A1500	192.365	102.551	-27.638	1.00	44.75	A16S
ATOM	31639	C5*	A	A1500	191.105	102.260	-28.261	1.00	44.75	A16S
ATOM	31640	C4*	A	A1500	189.966	102.424	-27.273	1.00	44.75	A16S



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ATOM	31641	O4*	A	A1500	190.095	101.447	-26.213	1.00	44.75	A16S
ATOM	31642	C1*	A	A1500	189.694	102.019	-24.985	1.00	44.75	A16S
ATOM	31643	N9	A	A1500	190.871	102.082	-24.112	1.00	71.60	A16S
ATOM	31644	C4	A	A1500	190.858	102.322	-22.760	1.00	71.60	A16S
ATOM	31645	N3	A	A1500	189.783	102.540	-21.983	1.00	71.60	A16S
ATOM	31646	C2	A	A1500	190.147	102.732	-20.720	1.00	71.60	A16S
ATOM	31647	N1	A	A1500	191.370	102.731	-20.182	1.00	71.60	A16S
ATOM	31648	C6	A	A1500	192.429	102.504	-20.985	1.00	71.60	A16S
ATOM	31649	N6	A	A1500	193.644	102.490	-20.437	1.00	71.60	A16S
ATOM	31650	C5	A	A1500	192.179	102.289	-22.356	1.00	71.60	A16S
ATOM	31651	N7	A	A1500	193.017	102.035	-23.435	1.00	71.60	A16S
ATOM	31652	C8	A	A1500	192.197	101.921	-24.449	1.00	71.60	A16S
ATOM	31653	C2*	A	A1500	189.132	103.405	-25.294	1.00	44.75	A16S
ATOM	31654	O2*	A	A1500	187.757	103.304	-25.583	1.00	44.75	A16S
ATOM	31655	C3*	A	A1500	189.893	103.756	-26.552	1.00	44.75	A16S
ATOM	31656	O3*	A	A1500	189.215	104.737	-27.300	1.00	44.75	A16S
ATOM	31657	P	C	A1501	189.809	106.219	-27.334	1.00	43.40	A16S
ATOM	31658	O1P	C	A1501	189.045	106.987	-28.368	1.00	51.15	A16S
ATOM	31659	O2P	C	A1501	191.292	106.088	-27.446	1.00	51.15	A16S
ATOM	31660	O5*	C	A1501	189.477	106.793	-25.881	1.00	43.40	A16S
ATOM	31661	C5*	C	A1501	188.105	107.038	-25.494	1.00	43.40	A16S
ATOM	31662	C4*	C	A1501	188.006	107.545	-24.071	1.00	43.40	A16S
ATOM	31663	O4*	C	A1501	188.475	106.537	-23.151	1.00	43.40	A16S
ATOM	31664	C1*	C	A1501	188.984	107.167	-21.992	1.00	43.40	A16S
ATOM	31665	N1	C	A1501	190.374	106.727	-21.781	1.00	51.15	A16S
ATOM	31666	C6	C	A1501	190.965	105.839	-22.631	1.00	51.15	A16S
ATOM	31667	C2	C	A1501	191.089	107.237	-20.687	1.00	51.15	A16S
ATOM	31668	O2	C	A1501	190.531	108.049	-19.917	1.00	51.15	A16S
ATOM	31669	N3	C	A1501	192.359	106.839	-20.494	1.00	51.15	A16S
ATOM	31670	C4	C	A1501	192.918	105.975	-21.333	1.00	51.15	A16S
ATOM	31671	N4	C	A1501	194.166	105.616	-21.103	1.00	51.15	A16S
ATOM	31672	C5	C	A1501	192.220	105.443	-22.444	1.00	51.15	A16S
ATOM	31673	C2*	C	A1501	188.849	108.683	-22.183	1.00	43.40	A16S
ATOM	31674	O2*	C	A1501	187.664	109.157	-21.563	1.00	43.40	A16S
ATOM	31675	C3*	C	A1501	188.759	108.806	-23.692	1.00	43.40	A16S
ATOM	31676	O3*	C	A1501	187.994	109.951	-23.990	1.00	43.40	A16S
ATOM	31677	P	A	A1502	188.345	110.810	-25.281	1.00	43.68	A16S
ATOM	31678	O1P	A	A1502	187.229	111.749	-25.519	1.00	68.41	A16S
ATOM	31679	O2P	A	A1502	188.763	109.891	-26.363	1.00	68.41	A16S
ATOM	31680	O5*	A	A1502	189.623	111.627	-24.840	1.00	43.68	A16S
ATOM	31681	C5*	A	A1502	189.583	113.036	-24.864	1.00	43.68	A16S
ATOM	31682	C4*	A	A1502	190.954	113.610	-24.705	1.00	43.68	A16S
ATOM	31683	O4*	A	A1502	191.617	113.234	-23.492	1.00	43.68	A16S
ATOM	31684	C1*	A	A1502	192.911	113.726	-23.629	1.00	43.68	A16S
ATOM	31685	N9	A	A1502	193.697	113.414	-22.438	1.00	68.41	A16S
ATOM	31686	C4	A	A1502	194.747	112.562	-22.310	1.00	68.41	A16S
ATOM	31687	N3	A	A1502	195.247	111.764	-23.255	1.00	68.41	A16S
ATOM	31688	C2	A	A1502	196.278	111.103	-22.777	1.00	68.41	A16S
ATOM	31689	N1	A	A1502	196.838	111.164	-21.551	1.00	68.41	A16S
ATOM	31690	C6	A	A1502	196.305	112.001	-20.637	1.00	68.41	A16S
ATOM	31691	N6	A	A1502	196.877	112.112	-19.437	1.00	68.41	A16S
ATOM	31692	C5	A	A1502	195.199	112.717	-21.009	1.00	68.41	A16S
ATOM	31693	N7	A	A1502	194.417	113.613	-20.315	1.00	68.41	A16S
ATOM	31694	C8	A	A1502	193.536	113.993	-21.200	1.00	68.41	A16S
ATOM	31695	C2*	A	A1502	193.302	113.251	-25.027	1.00	43.68	A16S
ATOM	31696	O2*	A	A1502	194.386	114.022	-25.510	1.00	43.68	A16S
ATOM	31697	C3*	A	A1502	191.998	113.512	-25.809	1.00	43.68	A16S
ATOM	31698	O3*	A	A1502	192.017	114.815	-26.370	1.00	43.68	A16S
ATOM	31699	P	A	A1503	191.009	115.188	-27.558	1.00	53.50	A16S
ATOM	31700	O1P	A	A1503	191.040	116.660	-27.774	1.00	62.29	A16S
ATOM	31701	O2P	A	A1503	189.705	114.511	-27.314	1.00	62.29	A16S
ATOM	31702	O5*	A	A1503	191.711	114.522	-28.819	1.00	53.50	A16S
ATOM	31703	C5*	A	A1503	190.991	113.635	-29.697	1.00	53.50	A16S
ATOM	31704	C4*	A	A1503	191.952	112.962	-30.642	1.00	53.50	A16S
ATOM	31705	O4*	A	A1503	192.621	113.997	-31.407	1.00	53.50	A16S
ATOM	31706	C1*	A	A1503	194.003	113.953	-31.162	1.00	53.50	A16S
ATOM	31707	N9	A	A1503	194.476	115.335	-31.115	1.00	62.29	A16S
ATOM	31708	C4	A	A1503	195.158	115.975	-32.114	1.00	62.29	A16S
ATOM	31709	N3	A	A1503	195.527	115.465	-33.297	1.00	62.29	A16S
ATOM	31710	C2	A	A1503	196.167	116.378	-34.018	1.00	62.29	A16S
ATOM	31711	N1	A	A1503	196.454	117.648	-33.716	1.00	62.29	A16S
ATOM	31712	C6	A	A1503	196.059	118.130	-32.519	1.00	62.29	A16S
ATOM	31713	N6	A	A1503	196.330	119.405	-32.223	1.00	62.29	A16S
ATOM	31714	C5	A	A1503	195.378	117.258	-31.660	1.00	62.29	A16S
ATOM	31715	N7	A	A1503	194.852	117.425	-30.393	1.00	62.29	A16S
ATOM	31716	C8	A	A1503	194.331	116.259	-30.115	1.00	62.29	A16S
ATOM	31717	C2*	A	A1503	194.196	113.139	-29.878	1.00	53.50	A16S



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ATOM	31718	O2*	A	A1503	195.473	112.542	-29.824	1.00	53.50	A16S
ATOM	31719	C3*	A	A1503	193.041	112.144	-29.962	1.00	53.50	A16S
ATOM	31720	O3*	A	A1503	193.344	111.031	-30.815	1.00	53.50	A16S
ATOM	31721	P	G	A1504	193.816	109.625	-30.185	1.00	50.98	A16S
ATOM	31722	O1P	G	A1504	194.446	108.811	-31.266	1.00	68.87	A16S
ATOM	31723	O2P	G	A1504	192.690	109.039	-29.409	1.00	68.87	A16S
ATOM	31724	O5*	G	A1504	195.005	110.069	-29.229	1.00	50.98	A16S
ATOM	31725	C5*	G	A1504	194.958	109.833	-27.835	1.00	50.98	A16S
ATOM	31726	C4*	G	A1504	195.604	108.524	-27.537	1.00	50.98	A16S
ATOM	31727	O4*	G	A1504	195.755	108.407	-26.109	1.00	50.98	A16S
ATOM	31728	C1*	G	A1504	194.829	107.466	-25.594	1.00	50.98	A16S
ATOM	31729	N9	G	A1504	193.963	108.196	-24.668	1.00	68.87	A16S
ATOM	31730	C4	G	A1504	194.182	108.421	-23.333	1.00	68.87	A16S
ATOM	31731	N3	G	A1504	195.223	107.971	-22.616	1.00	68.87	A16S
ATOM	31732	C2	G	A1504	195.160	108.374	-21.362	1.00	68.87	A16S
ATOM	31733	N2	G	A1504	196.103	108.015	-20.497	1.00	68.87	A16S
ATOM	31734	N1	G	A1504	194.168	109.159	-20.859	1.00	68.87	A16S
ATOM	31735	C6	G	A1504	193.096	109.641	-21.585	1.00	68.87	A16S
ATOM	31736	O6	G	A1504	192.264	110.368	-21.040	1.00	68.87	A16S
ATOM	31737	C5	G	A1504	193.135	109.207	-22.918	1.00	68.87	A16S
ATOM	31738	N7	G	A1504	192.257	109.449	-23.958	1.00	68.87	A16S
ATOM	31739	C8	G	A1504	192.783	108.828	-24.973	1.00	68.87	A16S
ATOM	31740	C2*	G	A1504	194.060	106.819	-26.757	1.00	50.98	A16S
ATOM	31741	O2*	G	A1504	193.998	105.407	-26.652	1.00	50.98	A16S
ATOM	31742	C3*	G	A1504	194.796	107.326	-28.002	1.00	50.98	A16S
ATOM	31743	O3*	G	A1504	195.485	106.436	-28.918	1.00	50.98	A16S
ATOM	31744	P	G	A1505	196.560	105.345	-28.404	1.00	40.20	A16S
ATOM	31745	O1P	G	A1505	196.173	104.064	-29.037	1.00	54.32	A16S
ATOM	31746	O2P	G	A1505	196.712	105.401	-26.936	1.00	54.32	A16S
ATOM	31747	O5*	G	A1505	197.925	105.855	-29.074	1.00	40.20	A16S
ATOM	31748	C5*	G	A1505	197.936	106.464	-30.406	1.00	40.20	A16S
ATOM	31749	C4*	G	A1505	199.021	107.522	-30.508	1.00	40.20	A16S
ATOM	31750	O4*	G	A1505	198.753	108.508	-29.499	1.00	40.20	A16S
ATOM	31751	C1*	G	A1505	199.927	108.831	-28.805	1.00	40.20	A16S
ATOM	31752	N9	G	A1505	199.719	108.482	-27.405	1.00	54.32	A16S
ATOM	31753	C4	G	A1505	199.245	109.335	-26.450	1.00	54.32	A16S
ATOM	31754	N3	G	A1505	198.917	110.625	-26.649	1.00	54.32	A16S
ATOM	31755	C2	G	A1505	198.493	111.193	-25.552	1.00	54.32	A16S
ATOM	31756	N2	G	A1505	198.112	112.465	-25.588	1.00	54.32	A16S
ATOM	31757	N1	G	A1505	198.409	110.552	-24.342	1.00	54.32	A16S
ATOM	31758	C6	G	A1505	198.735	109.222	-24.110	1.00	54.32	A16S
ATOM	31759	O6	G	A1505	198.619	108.743	-22.977	1.00	54.32	A16S
ATOM	31760	C5	G	A1505	199.182	108.593	-25.288	1.00	54.32	A16S
ATOM	31761	N7	G	A1505	199.610	107.293	-25.508	1.00	54.32	A16S
ATOM	31762	C8	G	A1505	199.924	107.273	-26.779	1.00	54.32	A16S
ATOM	31763	C2*	G	A1505	201.102	108.171	-29.510	1.00	40.20	A16S
ATOM	31764	O2*	G	A1505	201.700	109.151	-30.337	1.00	40.20	A16S
ATOM	31765	C3*	G	A1505	200.431	107.014	-30.253	1.00	40.20	A16S
ATOM	31766	O3*	G	A1505	201.125	106.818	-31.496	1.00	40.20	A16S
ATOM	31767	P	U	A1506	200.778	105.562	-32.437	1.00	52.82	A16S
ATOM	31768	O1P	U	A1506	200.421	104.392	-31.560	1.00	52.84	A16S
ATOM	31769	O2P	U	A1506	201.885	105.436	-33.434	1.00	52.84	A16S
ATOM	31770	O5*	U	A1506	199.484	106.028	-33.244	1.00	52.82	A16S
ATOM	31771	C5*	U	A1506	199.550	107.110	-34.194	1.00	52.82	A16S
ATOM	31772	C4*	U	A1506	198.511	106.922	-35.276	1.00	52.82	A16S
ATOM	31773	O4*	U	A1506	198.686	105.599	-35.854	1.00	52.82	A16S
ATOM	31774	C1*	U	A1506	197.461	104.908	-35.822	1.00	52.82	A16S
ATOM	31775	N1	U	A1506	197.725	103.473	-35.665	1.00	52.84	A16S
ATOM	31776	C6	U	A1506	198.271	102.953	-34.515	1.00	52.84	A16S
ATOM	31777	C2	U	A1506	197.390	102.652	-36.726	1.00	52.84	A16S
ATOM	31778	O2	U	A1506	196.948	103.085	-37.782	1.00	52.84	A16S
ATOM	31779	N3	U	A1506	197.605	101.310	-36.513	1.00	52.84	A16S
ATOM	31780	C4	U	A1506	198.126	100.722	-35.379	1.00	52.84	A16S
ATOM	31781	O4	U	A1506	198.140	99.500	-35.286	1.00	52.84	A16S
ATOM	31782	C5	U	A1506	198.484	101.640	-34.344	1.00	52.84	A16S
ATOM	31783	C2*	U	A1506	196.644	105.551	-34.704	1.00	52.82	A16S
ATOM	31784	O2*	U	A1506	195.261	105.285	-34.865	1.00	52.82	A16S
ATOM	31785	C3*	U	A1506	197.042	107.017	-34.860	1.00	52.82	A16S
ATOM	31786	O3*	U	A1506	196.293	107.556	-35.952	1.00	52.82	A16S
ATOM	31787	P	A	A1507	195.698	109.047	-35.872	1.00	48.39	A16S
ATOM	31788	O1P	A	A1507	194.952	109.331	-37.139	1.00	59.39	A16S
ATOM	31789	O2P	A	A1507	196.802	109.964	-35.452	1.00	59.39	A16S
ATOM	31790	O5*	A	A1507	194.640	108.985	-34.682	1.00	48.39	A16S
ATOM	31791	C5*	A	A1507	193.519	108.083	-34.715	1.00	48.39	A16S
ATOM	31792	C4*	A	A1507	192.461	108.526	-33.724	1.00	48.39	A16S
ATOM	31793	O4*	A	A1507	191.762	109.701	-34.212	1.00	48.39	A16S
ATOM	31794	C1*	A	A1507	190.390	109.638	-33.857	1.00	48.39	A16S



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ATOM	31795	N9	A	A1507	189.605	109.638	-35.095	1.00	59.39	A16S
ATOM	31796	C4	A	A1507	188.232	109.637	-35.232	1.00	59.39	A16S
ATOM	31797	N3	A	A1507	187.304	109.679	-34.260	1.00	59.39	A16S
ATOM	31798	C2	A	A1507	186.074	109.628	-34.776	1.00	59.39	A16S
ATOM	31799	N1	A	A1507	185.694	109.533	-36.047	1.00	59.39	A16S
ATOM	31800	C6	A	A1507	186.648	109.487	-36.998	1.00	59.39	A16S
ATOM	31801	N6	A	A1507	186.274	109.366	-38.268	1.00	59.39	A16S
ATOM	31802	C5	A	A1507	187.990	109.556	-36.588	1.00	59.39	A16S
ATOM	31803	N7	A	A1507	189.180	109.550	-37.298	1.00	59.39	A16S
ATOM	31804	C8	A	A1507	190.102	109.606	-36.369	1.00	59.39	A16S
ATOM	31805	C2*	A	A1507	190.204	108.371	-33.018	1.00	48.39	A16S
ATOM	31806	O2*	A	A1507	190.302	108.685	-31.633	1.00	48.39	A16S
ATOM	31807	C3*	A	A1507	191.362	107.517	-33.507	1.00	48.39	A16S
ATOM	31808	O3*	A	A1507	191.798	106.555	-32.583	1.00	48.39	A16S
ATOM	31809	P	G	A1508	191.551	105.008	-32.906	1.00	47.99	A16S
ATOM	31810	O1P	G	A1508	192.514	104.231	-32.072	1.00	55.29	A16S
ATOM	31811	O2P	G	A1508	191.509	104.798	-34.378	1.00	55.29	A16S
ATOM	31812	O5*	G	A1508	190.083	104.767	-32.354	1.00	47.99	A16S
ATOM	31813	C5*	G	A1508	189.761	105.133	-31.004	1.00	47.99	A16S
ATOM	31814	C4*	G	A1508	188.277	105.323	-30.844	1.00	47.99	A16S
ATOM	31815	O4*	G	A1508	187.828	106.497	-31.572	1.00	47.99	A16S
ATOM	31816	C1*	G	A1508	186.520	106.269	-32.049	1.00	47.99	A16S
ATOM	31817	N9	G	A1508	186.541	106.323	-33.503	1.00	55.29	A16S
ATOM	31818	C4	G	A1508	185.459	106.541	-34.303	1.00	55.29	A16S
ATOM	31819	N3	G	A1508	184.203	106.776	-33.878	1.00	55.29	A16S
ATOM	31820	C2	G	A1508	183.366	106.936	-34.879	1.00	55.29	A16S
ATOM	31821	N2	G	A1508	182.085	107.185	-34.625	1.00	55.29	A16S
ATOM	31822	N1	G	A1508	183.731	106.863	-36.197	1.00	55.29	A16S
ATOM	31823	C6	G	A1508	185.021	106.620	-36.653	1.00	55.29	A16S
ATOM	31824	O6	G	A1508	185.242	106.569	-37.857	1.00	55.29	A16S
ATOM	31825	C5	G	A1508	185.928	106.456	-35.589	1.00	55.29	A16S
ATOM	31826	N7	G	A1508	187.289	106.206	-35.600	1.00	55.29	A16S
ATOM	31827	C8	G	A1508	187.611	106.141	-34.339	1.00	55.29	A16S
ATOM	31828	C2*	G	A1508	186.073	104.888	-31.559	1.00	47.99	A16S
ATOM	31829	O2*	G	A1508	185.380	105.033	-30.334	1.00	47.99	A16S
ATOM	31830	C3*	G	A1508	187.408	104.190	-31.355	1.00	47.99	A16S
ATOM	31831	O3*	G	A1508	187.329	103.153	-30.392	1.00	47.99	A16S
ATOM	31832	P	C	A1509	186.790	101.701	-30.826	1.00	39.42	A16S
ATOM	31833	O1P	C	A1509	186.675	100.880	-29.580	1.00	62.86	A16S
ATOM	31834	O2P	C	A1509	187.594	101.194	-31.970	1.00	62.86	A16S
ATOM	31835	O5*	C	A1509	185.321	101.986	-31.367	1.00	39.42	A16S
ATOM	31836	C5*	C	A1509	184.302	102.386	-30.460	1.00	39.42	A16S
ATOM	31837	C4*	C	A1509	183.004	102.619	-31.181	1.00	39.42	A16S
ATOM	31838	O4*	C	A1509	183.130	103.705	-32.115	1.00	39.42	A16S
ATOM	31839	C1*	C	A1509	182.244	103.498	-33.185	1.00	39.42	A16S
ATOM	31840	N1	C	A1509	183.027	103.438	-34.408	1.00	62.86	A16S
ATOM	31841	C6	C	A1509	184.369	103.187	-34.373	1.00	62.86	A16S
ATOM	31842	C2	C	A1509	182.382	103.652	-35.612	1.00	62.86	A16S
ATOM	31843	O2	C	A1509	181.157	103.832	-35.607	1.00	62.86	A16S
ATOM	31844	N3	C	A1509	183.098	103.653	-36.748	1.00	62.86	A16S
ATOM	31845	C4	C	A1509	184.409	103.437	-36.704	1.00	62.86	A16S
ATOM	31846	N4	C	A1509	185.082	103.480	-37.844	1.00	62.86	A16S
ATOM	31847	C5	C	A1509	185.089	103.178	-35.487	1.00	62.86	A16S
ATOM	31848	C2*	C	A1509	181.500	102.195	-32.935	1.00	39.42	A16S
ATOM	31849	O2*	C	A1509	180.306	102.521	-32.267	1.00	39.42	A16S
ATOM	31850	C3*	C	A1509	182.458	101.479	-32.007	1.00	39.42	A16S
ATOM	31851	O3*	C	A1509	181.775	100.572	-31.176	1.00	39.42	A16S
ATOM	31852	P	U	A1510	181.698	99.031	-31.600	1.00	39.92	A16S
ATOM	31853	O1P	U	A1510	180.878	98.346	-30.557	1.00	60.46	A16S
ATOM	31854	O2P	U	A1510	183.077	98.537	-31.889	1.00	60.46	A16S
ATOM	31855	O5*	U	A1510	180.883	99.105	-32.967	1.00	39.92	A16S
ATOM	31856	C5*	U	A1510	179.594	99.700	-32.990	1.00	39.92	A16S
ATOM	31857	C4*	U	A1510	179.096	99.805	-34.396	1.00	39.92	A16S
ATOM	31858	O4*	U	A1510	179.875	100.768	-35.128	1.00	39.92	A16S
ATOM	31859	C1*	U	A1510	179.842	100.432	-36.502	1.00	39.92	A16S
ATOM	31860	N1	U	A1510	181.216	100.423	-37.019	1.00	60.46	A16S
ATOM	31861	C6	U	A1510	182.286	100.211	-36.188	1.00	60.46	A16S
ATOM	31862	C2	U	A1510	181.393	100.609	-38.372	1.00	60.46	A16S
ATOM	31863	O2	U	A1510	180.476	100.861	-39.130	1.00	60.46	A16S
ATOM	31864	N3	U	A1510	182.686	100.498	-38.803	1.00	60.46	A16S
ATOM	31865	C4	U	A1510	183.801	100.245	-38.028	1.00	60.46	A16S
ATOM	31866	O4	U	A1510	184.896	100.052	-38.573	1.00	60.46	A16S
ATOM	31867	C5	U	A1510	183.534	100.122	-36.632	1.00	60.46	A16S
ATOM	31868	C2*	U	A1510	179.131	99.080	-36.647	1.00	39.92	A16S
ATOM	31869	O2*	U	A1510	177.800	99.265	-37.060	1.00	39.92	A16S
ATOM	31870	C3*	U	A1510	179.167	98.543	-35.230	1.00	39.92	A16S
ATOM	31871	O3*	U	A1510	178.026	97.748	-34.990	1.00	39.92	A16S



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ATOM	31872	P	G	A1511	178.176	96.157	-34.895	1.00	39.05	A16S
ATOM	31873	O1P	G	A1511	177.128	95.674	-33.960	1.00	59.54	A16S
ATOM	31874	O2P	G	A1511	179.596	95.812	-34.606	1.00	59.54	A16S
ATOM	31875	O5*	G	A1511	177.810	95.704	-36.381	1.00	39.05	A16S
ATOM	31876	C5*	G	A1511	176.438	95.667	-36.825	1.00	39.05	A16S
ATOM	31877	C4*	G	A1511	176.361	95.340	-38.300	1.00	39.05	A16S
ATOM	31878	O4*	G	A1511	176.877	96.449	-39.074	1.00	39.05	A16S
ATOM	31879	C1*	G	A1511	177.622	95.967	-40.180	1.00	39.05	A16S
ATOM	31880	N9	G	A1511	179.013	96.362	-39.968	1.00	59.54	A16S
ATOM	31881	C4	G	A1511	179.990	96.545	-40.923	1.00	59.54	A16S
ATOM	31882	N3	G	A1511	179.854	96.349	-42.241	1.00	59.54	A16S
ATOM	31883	C2	G	A1511	180.965	96.612	-42.890	1.00	59.54	A16S
ATOM	31884	N2	G	A1511	181.011	96.456	-44.207	1.00	59.54	A16S
ATOM	31885	N1	G	A1511	182.116	97.040	-42.300	1.00	59.54	A16S
ATOM	31886	C6	G	A1511	182.282	97.243	-40.942	1.00	59.54	A16S
ATOM	31887	O6	G	A1511	183.375	97.617	-40.501	1.00	59.54	A16S
ATOM	31888	C5	G	A1511	181.101	96.962	-40.231	1.00	59.54	A16S
ATOM	31889	N7	G	A1511	180.844	97.015	-38.871	1.00	59.54	A16S
ATOM	31890	C8	G	A1511	179.598	96.645	-38.762	1.00	59.54	A16S
ATOM	31891	C2*	G	A1511	177.455	94.452	-40.208	1.00	39.05	A16S
ATOM	31892	O2*	G	A1511	176.394	94.095	-41.085	1.00	39.05	A16S
ATOM	31893	C3*	G	A1511	177.187	94.158	-38.741	1.00	39.05	A16S
ATOM	31894	O3*	G	A1511	176.521	92.945	-38.548	1.00	39.05	A16S
ATOM	31895	P	U	A1512	177.390	91.636	-38.262	1.00	46.00	A16S
ATOM	31896	O1P	U	A1512	176.445	90.489	-38.079	1.00	49.32	A16S
ATOM	31897	O2P	U	A1512	178.349	91.980	-37.169	1.00	49.32	A16S
ATOM	31898	O5*	U	A1512	178.198	91.431	-39.627	1.00	46.00	A16S
ATOM	31899	C5*	U	A1512	177.487	91.304	-40.887	1.00	46.00	A16S
ATOM	31900	C4*	U	A1512	178.435	91.396	-42.064	1.00	46.00	A16S
ATOM	31901	O4*	U	A1512	178.991	92.731	-42.174	1.00	46.00	A16S
ATOM	31902	C1*	U	A1512	180.328	92.653	-42.655	1.00	46.00	A16S
ATOM	31903	N1	U	A1512	181.231	93.269	-41.661	1.00	49.32	A16S
ATOM	31904	C6	U	A1512	180.911	93.318	-40.325	1.00	49.32	A16S
ATOM	31905	C2	U	A1512	182.422	93.797	-42.114	1.00	49.32	A16S
ATOM	31906	O2	U	A1512	182.745	93.778	-43.282	1.00	49.32	A16S
ATOM	31907	N3	U	A1512	183.224	94.346	-41.144	1.00	49.32	A16S
ATOM	31908	C4	U	A1512	182.966	94.420	-39.795	1.00	49.32	A16S
ATOM	31909	O4	U	A1512	183.770	94.986	-39.047	1.00	49.32	A16S
ATOM	31910	C5	U	A1512	181.716	93.857	-39.406	1.00	49.32	A16S
ATOM	31911	C2*	U	A1512	180.630	91.179	-42.947	1.00	46.00	A16S
ATOM	31912	O2*	U	A1512	180.337	90.941	-44.301	1.00	46.00	A16S
ATOM	31913	C3*	U	A1512	179.636	90.472	-42.034	1.00	46.00	A16S
ATOM	31914	O3*	U	A1512	179.264	89.214	-42.536	1.00	46.00	A16S
ATOM	31915	P	A	A1513	180.102	87.913	-42.117	1.00	47.21	A16S
ATOM	31916	O1P	A	A1513	179.455	86.753	-42.812	1.00	51.10	A16S
ATOM	31917	O2P	A	A1513	180.255	87.886	-40.638	1.00	51.10	A16S
ATOM	31918	O5*	A	A1513	181.531	88.179	-42.771	1.00	47.21	A16S
ATOM	31919	C5*	A	A1513	181.710	88.013	-44.180	1.00	47.21	A16S
ATOM	31920	C4*	A	A1513	183.136	88.270	-44.566	1.00	47.21	A16S
ATOM	31921	O4*	A	A1513	183.447	89.674	-44.440	1.00	47.21	A16S
ATOM	31922	C1*	A	A1513	184.823	89.820	-44.153	1.00	47.21	A16S
ATOM	31923	N9	A	A1513	184.954	90.556	-42.905	1.00	51.10	A16S
ATOM	31924	C4	A	A1513	186.027	91.324	-42.541	1.00	51.10	A16S
ATOM	31925	N3	A	A1513	187.119	91.591	-43.273	1.00	51.10	A16S
ATOM	31926	C2	A	A1513	187.971	92.348	-42.579	1.00	51.10	A16S
ATOM	31927	N1	A	A1513	187.860	92.821	-41.328	1.00	51.10	A16S
ATOM	31928	C6	A	A1513	186.750	92.517	-40.625	1.00	51.10	A16S
ATOM	31929	N6	A	A1513	186.648	92.954	-39.375	1.00	51.10	A16S
ATOM	31930	C5	A	A1513	185.769	91.742	-41.253	1.00	51.10	A16S
ATOM	31931	N7	A	A1513	184.535	91.280	-40.828	1.00	51.10	A16S
ATOM	31932	C8	A	A1513	184.089	90.592	-41.847	1.00	51.10	A16S
ATOM	31933	C2*	A	A1513	185.431	88.419	-44.023	1.00	47.21	A16S
ATOM	31934	O2*	A	A1513	186.092	88.060	-45.215	1.00	47.21	A16S
ATOM	31935	C3*	A	A1513	184.202	87.567	-43.754	1.00	47.21	A16S
ATOM	31936	O3*	A	A1513	184.381	86.242	-44.207	1.00	47.21	A16S
ATOM	31937	P	C	A1514	184.980	85.138	-43.212	1.00	55.38	A16S
ATOM	31938	O1P	C	A1514	184.802	83.812	-43.869	1.00	53.89	A16S
ATOM	31939	O2P	C	A1514	184.442	85.344	-41.845	1.00	53.89	A16S
ATOM	31940	O5*	C	A1514	186.530	85.485	-43.204	1.00	55.38	A16S
ATOM	31941	C5*	C	A1514	187.309	85.269	-44.387	1.00	55.38	A16S
ATOM	31942	C4*	C	A1514	188.674	85.868	-44.236	1.00	55.38	A16S
ATOM	31943	O4*	C	A1514	188.552	87.296	-44.045	1.00	55.38	A16S
ATOM	31944	C1*	C	A1514	189.595	87.746	-43.209	1.00	55.38	A16S
ATOM	31945	N1	C	A1514	189.006	88.409	-42.039	1.00	53.89	A16S
ATOM	31946	C6	C	A1514	187.754	88.100	-41.607	1.00	53.89	A16S
ATOM	31947	C2	C	A1514	189.761	89.364	-41.370	1.00	53.89	A16S
ATOM	31948	O2	C	A1514	190.904	89.605	-41.771	1.00	53.89	A16S



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ATOM	31949	N3	C	A1514	189.241	89.994	-40.300	1.00	53.89	A16S
ATOM	31950	C4	C	A1514	188.018	89.690	-39.888	1.00	53.89	A16S
ATOM	31951	N4	C	A1514	187.542	90.341	-38.829	1.00	53.89	A16S
ATOM	31952	C5	C	A1514	187.228	88.710	-40.543	1.00	53.89	A16S
ATOM	31953	C2*	C	A1514	190.448	86.535	-42.825	1.00	55.38	A16S
ATOM	31954	O2*	C	A1514	191.568	86.415	-43.681	1.00	55.38	A16S
ATOM	31955	C3*	C	A1514	189.473	85.395	-43.042	1.00	55.38	A16S
ATOM	31956	O3*	C	A1514	190.164	84.201	-43.324	1.00	55.38	A16S
ATOM	31957	P	C	A1515	190.622	83.264	-42.112	1.00	46.16	A16S
ATOM	31958	O1P	C	A1515	191.166	82.041	-42.753	1.00	58.31	A16S
ATOM	31959	O2P	C	A1515	189.489	83.158	-41.147	1.00	58.31	A16S
ATOM	31960	O5*	C	A1515	191.832	84.054	-41.436	1.00	46.16	A16S
ATOM	31961	C5*	C	A1515	193.100	84.179	-42.127	1.00	46.16	A16S
ATOM	31962	C4*	C	A1515	194.063	85.054	-41.351	1.00	46.16	A16S
ATOM	31963	O4*	C	A1515	193.546	86.406	-41.282	1.00	46.16	A16S
ATOM	31964	C1*	C	A1515	193.873	86.973	-40.032	1.00	46.16	A16S
ATOM	31965	N1	C	A1515	192.627	87.290	-39.313	1.00	58.31	A16S
ATOM	31966	C6	C	A1515	191.458	86.646	-39.598	1.00	58.31	A16S
ATOM	31967	C2	C	A1515	192.663	88.270	-38.336	1.00	58.31	A16S
ATOM	31968	O2	C	A1515	193.744	88.815	-38.078	1.00	58.31	A16S
ATOM	31969	N3	C	A1515	191.531	88.599	-37.684	1.00	58.31	A16S
ATOM	31970	C4	C	A1515	190.396	87.967	-37.965	1.00	58.31	A16S
ATOM	31971	N4	C	A1515	189.304	88.317	-37.283	1.00	58.31	A16S
ATOM	31972	C5	C	A1515	190.329	86.948	-38.952	1.00	58.31	A16S
ATOM	31973	C2*	C	A1515	194.747	85.974	-39.284	1.00	46.16	A16S
ATOM	31974	O2*	C	A1515	196.081	86.273	-39.600	1.00	46.16	A16S
ATOM	31975	C3*	C	A1515	194.315	84.659	-39.909	1.00	46.16	A16S
ATOM	31976	O3*	C	A1515	195.329	83.676	-39.820	1.00	46.16	A16S
ATOM	31977	P	G	A1516	195.450	82.773	-38.493	1.00	59.33	A16S
ATOM	31978	O1P	G	A1516	196.539	81.802	-38.760	1.00	90.73	A16S
ATOM	31979	O2P	G	A1516	194.104	82.277	-38.077	1.00	90.73	A16S
ATOM	31980	O5*	G	A1516	195.995	83.800	-37.410	1.00	59.33	A16S
ATOM	31981	C5*	G	A1516	197.202	84.554	-37.669	1.00	59.33	A16S
ATOM	31982	C4*	G	A1516	197.476	85.532	-36.549	1.00	59.33	A16S
ATOM	31983	O4*	G	A1516	196.591	86.680	-36.630	1.00	59.33	A16S
ATOM	31984	C1*	G	A1516	196.243	87.096	-35.317	1.00	59.33	A16S
ATOM	31985	N9	G	A1516	194.810	86.890	-35.121	1.00	90.73	A16S
ATOM	31986	C4	G	A1516	194.037	87.497	-34.165	1.00	90.73	A16S
ATOM	31987	N3	G	A1516	194.464	88.416	-33.276	1.00	90.73	A16S
ATOM	31988	C2	G	A1516	193.494	88.815	-32.474	1.00	90.73	A16S
ATOM	31989	N2	G	A1516	193.754	89.745	-31.533	1.00	90.73	A16S
ATOM	31990	N1	G	A1516	192.199	88.337	-32.536	1.00	90.73	A16S
ATOM	31991	C6	G	A1516	191.736	87.382	-33.440	1.00	90.73	A16S
ATOM	31992	O6	G	A1516	190.548	87.009	-33.403	1.00	90.73	A16S
ATOM	31993	C5	G	A1516	192.772	86.956	-34.315	1.00	90.73	A16S
ATOM	31994	N7	G	A1516	192.749	86.037	-35.357	1.00	90.73	A16S
ATOM	31995	C8	G	A1516	193.976	86.036	-35.810	1.00	90.73	A16S
ATOM	31996	C2*	G	A1516	197.024	86.224	-34.331	1.00	59.33	A16S
ATOM	31997	O2*	G	A1516	198.228	86.859	-33.960	1.00	59.33	A16S
ATOM	31998	C3*	G	A1516	197.263	84.974	-35.156	1.00	59.33	A16S
ATOM	31999	O3*	G	A1516	198.376	84.240	-34.708	1.00	59.33	A16S
ATOM	32000	P	G	A1517	198.145	82.992	-33.737	1.00	75.86	A16S
ATOM	32001	O1P	G	A1517	196.850	82.350	-34.135	1.00	88.19	A16S
ATOM	32002	O2P	G	A1517	199.397	82.180	-33.706	1.00	88.19	A16S
ATOM	32003	O5*	G	A1517	197.903	83.674	-32.313	1.00	75.86	A16S
ATOM	32004	C5*	G	A1517	198.995	83.975	-31.397	1.00	75.86	A16S
ATOM	32005	C4*	G	A1517	198.520	83.814	-29.965	1.00	75.86	A16S
ATOM	32006	O4*	G	A1517	199.615	83.991	-29.035	1.00	75.86	A16S
ATOM	32007	C1*	G	A1517	199.133	84.579	-27.834	1.00	75.86	A16S
ATOM	32008	N9	G	A1517	199.748	85.894	-27.707	1.00	88.19	A16S
ATOM	32009	C4	G	A1517	199.739	86.706	-26.596	1.00	88.19	A16S
ATOM	32010	N3	G	A1517	199.166	86.421	-25.403	1.00	88.19	A16S
ATOM	32011	C2	G	A1517	199.334	87.400	-24.529	1.00	88.19	A16S
ATOM	32012	N2	G	A1517	198.847	87.279	-23.284	1.00	88.19	A16S
ATOM	32013	N1	G	A1517	199.999	88.569	-24.809	1.00	88.19	A16S
ATOM	32014	C6	G	A1517	200.596	88.880	-26.030	1.00	88.19	A16S
ATOM	32015	O6	G	A1517	201.189	89.962	-26.179	1.00	88.19	A16S
ATOM	32016	C5	G	A1517	200.427	87.839	-26.970	1.00	88.19	A16S
ATOM	32017	N7	G	A1517	200.859	87.742	-28.284	1.00	88.19	A16S
ATOM	32018	C8	G	A1517	200.436	86.576	-28.679	1.00	88.19	A16S
ATOM	32019	C2*	G	A1517	197.623	84.732	-27.976	1.00	75.86	A16S
ATOM	32020	O2*	G	A1517	196.939	83.621	-27.427	1.00	75.86	A16S
ATOM	32021	C3*	G	A1517	197.487	84.812	-29.482	1.00	75.86	A16S
ATOM	32022	O3*	G	A1517	196.186	84.517	-29.907	1.00	75.86	A16S
ATOM	32023	P	A	A1518	195.263	85.713	-30.437	1.00	74.45	A16S
ATOM	32024	O1P	A	A1518	194.022	85.083	-30.966	1.00	64.70	A16S
ATOM	32025	O2P	A	A1518	196.076	86.617	-31.315	1.00	64.70	A16S



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ATOM	32026	O5*	A	A1518	194.935	86.534	-29.118	1.00	74.45	A16S
ATOM	32027	C5*	A	A1518	194.319	85.915	-27.982	1.00	74.45	A16S
ATOM	32028	C4*	A	A1518	194.371	86.862	-26.828	1.00	74.45	A16S
ATOM	32029	O4*	A	A1518	195.768	87.062	-26.496	1.00	74.45	A16S
ATOM	32030	C1*	A	A1518	196.000	88.426	-26.200	1.00	74.45	A16S
ATOM	32031	N9	A	A1518	196.941	88.957	-27.187	1.00	64.70	A16S
ATOM	32032	C4	A	A1518	197.688	90.100	-27.055	1.00	64.70	A16S
ATOM	32033	N3	A	A1518	197.724	90.928	-25.997	1.00	64.70	A16S
ATOM	32034	C2	A	A1518	198.563	91.930	-26.218	1.00	64.70	A16S
ATOM	32035	N1	A	A1518	199.316	92.187	-27.303	1.00	64.70	A16S
ATOM	32036	C6	A	A1518	199.248	91.340	-28.353	1.00	64.70	A16S
ATOM	32037	N6	A	A1518	199.988	91.606	-29.435	1.00	64.70	A16S
ATOM	32038	C5	A	A1518	198.393	90.228	-28.237	1.00	64.70	A16S
ATOM	32039	N7	A	A1518	198.104	89.179	-29.096	1.00	64.70	A16S
ATOM	32040	C8	A	A1518	197.246	88.452	-28.425	1.00	64.70	A16S
ATOM	32041	C2*	A	A1518	194.652	89.153	-26.248	1.00	74.45	A16S
ATOM	32042	O2*	A	A1518	194.091	89.235	-24.951	1.00	74.45	A16S
ATOM	32043	C3*	A	A1518	193.857	88.252	-27.178	1.00	74.45	A16S
ATOM	32044	O3*	A	A1518	192.446	88.377	-27.026	1.00	74.45	A16S
ATOM	32045	P	A	A1519	191.558	88.867	-28.276	1.00	62.48	A16S
ATOM	32046	O1P	A	A1519	190.207	88.210	-28.186	1.00	59.72	A16S
ATOM	32047	O2P	A	A1519	192.388	88.696	-29.491	1.00	59.72	A16S
ATOM	32048	O5*	A	A1519	191.389	90.435	-28.075	1.00	62.48	A16S
ATOM	32049	C5*	A	A1519	190.538	90.931	-27.056	1.00	62.48	A16S
ATOM	32050	C4*	A	A1519	191.271	91.947	-26.242	1.00	62.48	A16S
ATOM	32051	O4*	A	A1519	192.645	91.500	-26.071	1.00	62.48	A16S
ATOM	32052	C1*	A	A1519	193.498	92.624	-25.946	1.00	62.48	A16S
ATOM	32053	N9	A	A1519	194.476	92.640	-27.040	1.00	59.72	A16S
ATOM	32054	C4	A	A1519	195.510	93.547	-27.116	1.00	59.72	A16S
ATOM	32055	N3	A	A1519	195.834	94.486	-26.207	1.00	59.72	A16S
ATOM	32056	C2	A	A1519	196.863	95.223	-26.628	1.00	59.72	A16S
ATOM	32057	N1	A	A1519	197.559	95.142	-27.770	1.00	59.72	A16S
ATOM	32058	C6	A	A1519	197.219	94.191	-28.669	1.00	59.72	A16S
ATOM	32059	N6	A	A1519	197.919	94.130	-29.810	1.00	59.72	A16S
ATOM	32060	C5	A	A1519	196.128	93.322	-28.334	1.00	59.72	A16S
ATOM	32061	N7	A	A1519	195.526	92.254	-28.993	1.00	59.72	A16S
ATOM	32062	C8	A	A1519	194.563	91.878	-28.181	1.00	59.72	A16S
ATOM	32063	C2*	A	A1519	192.607	93.859	-26.055	1.00	62.48	A16S
ATOM	32064	O2*	A	A1519	192.192	94.234	-24.759	1.00	62.48	A16S
ATOM	32065	C3*	A	A1519	191.442	93.317	-26.860	1.00	62.48	A16S
ATOM	32066	O3*	A	A1519	190.301	94.131	-26.709	1.00	62.48	A16S
ATOM	32067	P	G	A1520	189.763	94.989	-27.961	1.00	50.32	A16S
ATOM	32068	O1P	G	A1520	189.690	96.411	-27.525	1.00	64.95	A16S
ATOM	32069	O2P	G	A1520	188.561	94.326	-28.516	1.00	64.95	A16S
ATOM	32070	O5*	G	A1520	190.888	94.873	-29.083	1.00	50.32	A16S
ATOM	32071	C5*	G	A1520	192.020	95.762	-29.104	1.00	50.32	A16S
ATOM	32072	C4*	G	A1520	193.012	95.321	-30.160	1.00	50.32	A16S
ATOM	32073	O4*	G	A1520	193.030	93.868	-30.225	1.00	50.32	A16S
ATOM	32074	C1*	G	A1520	193.271	93.460	-31.557	1.00	50.32	A16S
ATOM	32075	N9	G	A1520	192.152	92.643	-32.018	1.00	64.95	A16S
ATOM	32076	C4	G	A1520	192.110	91.899	-33.176	1.00	64.95	A16S
ATOM	32077	N3	G	A1520	193.098	91.797	-34.086	1.00	64.95	A16S
ATOM	32078	C2	G	A1520	192.767	91.001	-35.087	1.00	64.95	A16S
ATOM	32079	N2	G	A1520	193.633	90.800	-36.089	1.00	64.95	A16S
ATOM	32080	N1	G	A1520	191.565	90.344	-35.184	1.00	64.95	A16S
ATOM	32081	C6	G	A1520	190.538	90.421	-34.255	1.00	64.95	A16S
ATOM	32082	O6	G	A1520	189.500	89.757	-34.425	1.00	64.95	A16S
ATOM	32083	C5	G	A1520	190.875	91.295	-33.181	1.00	64.95	A16S
ATOM	32084	N7	G	A1520	190.148	91.663	-32.060	1.00	64.95	A16S
ATOM	32085	C8	G	A1520	190.945	92.459	-31.400	1.00	64.95	A16S
ATOM	32086	C2*	G	A1520	193.483	94.714	-32.404	1.00	50.32	A16S
ATOM	32087	O2*	G	A1520	194.875	94.917	-32.452	1.00	50.32	A16S
ATOM	32088	C3*	G	A1520	192.754	95.777	-31.591	1.00	50.32	A16S
ATOM	32089	O3*	G	A1520	193.339	97.065	-31.763	1.00	50.32	A16S
ATOM	32090	P	G	A1521	193.085	97.909	-33.115	1.00	55.47	A16S
ATOM	32091	O1P	G	A1521	193.838	99.193	-32.995	1.00	67.64	A16S
ATOM	32092	O2P	G	A1521	191.633	97.942	-33.421	1.00	67.64	A16S
ATOM	32093	O5*	G	A1521	193.801	97.038	-34.237	1.00	55.47	A16S
ATOM	32094	C5*	G	A1521	195.235	97.019	-34.367	1.00	55.47	A16S
ATOM	32095	C4*	G	A1521	195.627	96.312	-35.638	1.00	55.47	A16S
ATOM	32096	O4*	G	A1521	195.171	94.930	-35.595	1.00	55.47	A16S
ATOM	32097	C1*	G	A1521	194.717	94.527	-36.881	1.00	55.47	A16S
ATOM	32098	N9	G	A1521	193.329	94.074	-36.760	1.00	67.64	A16S
ATOM	32099	C4	G	A1521	192.642	93.244	-37.623	1.00	67.64	A16S
ATOM	32100	N3	G	A1521	193.115	92.718	-38.767	1.00	67.64	A16S
ATOM	32101	C2	G	A1521	192.231	91.920	-39.341	1.00	67.64	A16S
ATOM	32102	N2	G	A1521	192.537	91.310	-40.477	1.00	67.64	A16S



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ATOM	32103	N1	G	A1521	190.984	91.663	-38.841	1.00	67.64	A16S
ATOM	32104	C6	G	A1521	190.474	92.197	-37.671	1.00	67.64	A16S
ATOM	32105	O6	G	A1521	189.338	91.901	-37.306	1.00	67.64	A16S
ATOM	32106	C5	G	A1521	191.406	93.050	-37.040	1.00	67.64	A16S
ATOM	32107	N7	G	A1521	191.305	93.759	-35.855	1.00	67.64	A16S
ATOM	32108	C8	G	A1521	192.460	94.359	-35.736	1.00	67.64	A16S
ATOM	32109	C2*	G	A1521	194.942	95.703	-37.833	1.00	55.47	A16S
ATOM	32110	O2*	G	A1521	196.185	95.549	-38.492	1.00	55.47	A16S
ATOM	32111	C3*	G	A1521	194.964	96.880	-36.869	1.00	55.47	A16S
ATOM	32112	O3*	G	A1521	195.650	97.995	-37.374	1.00	55.47	A16S
ATOM	32113	P	U	A1522	194.828	99.071	-38.216	1.00	44.40	A16S
ATOM	32114	O1P	U	A1522	195.717	100.206	-38.555	1.00	60.22	A16S
ATOM	32115	O2P	U	A1522	193.571	99.325	-37.481	1.00	60.22	A16S
ATOM	32116	O5*	U	A1522	194.453	98.295	-39.552	1.00	44.40	A16S
ATOM	32117	C5*	U	A1522	195.486	97.899	-40.455	1.00	44.40	A16S
ATOM	32118	C4*	U	A1522	194.936	97.008	-41.532	1.00	44.40	A16S
ATOM	32119	O4*	U	A1522	194.505	95.749	-40.955	1.00	44.40	A16S
ATOM	32120	C1*	U	A1522	193.396	95.253	-41.680	1.00	44.40	A16S
ATOM	32121	N1	U	A1522	192.243	95.188	-40.781	1.00	60.22	A16S
ATOM	32122	C6	U	A1522	192.151	95.987	-39.674	1.00	60.22	A16S
ATOM	32123	C2	U	A1522	191.241	94.324	-41.117	1.00	60.22	A16S
ATOM	32124	O2	U	A1522	191.328	93.557	-42.044	1.00	60.22	A16S
ATOM	32125	N3	U	A1522	190.131	94.389	-40.324	1.00	60.22	A16S
ATOM	32126	C4	U	A1522	189.941	95.212	-39.240	1.00	60.22	A16S
ATOM	32127	O4	U	A1522	188.802	95.354	-38.790	1.00	60.22	A16S
ATOM	32128	C5	U	A1522	191.069	96.025	-38.910	1.00	60.22	A16S
ATOM	32129	C2*	U	A1522	193.109	96.233	-42.819	1.00	44.40	A16S
ATOM	32130	O2*	U	A1522	193.769	95.780	-43.988	1.00	44.40	A16S
ATOM	32131	C3*	U	A1522	193.722	97.519	-42.284	1.00	44.40	A16S
ATOM	32132	O3*	U	A1522	194.065	98.415	-43.333	1.00	44.40	A16S
ATOM	32133	P	G	A1523	192.937	99.400	-43.906	1.00	46.78	A16S
ATOM	32134	O1P	G	A1523	193.521	100.382	-44.872	1.00	48.72	A16S
ATOM	32135	O2P	G	A1523	192.192	99.891	-42.733	1.00	48.72	A16S
ATOM	32136	O5*	G	A1523	191.978	98.404	-44.697	1.00	46.78	A16S
ATOM	32137	C5*	G	A1523	192.485	97.683	-45.838	1.00	46.78	A16S
ATOM	32138	C4*	G	A1523	191.378	96.947	-46.546	1.00	46.78	A16S
ATOM	32139	O4*	G	A1523	190.908	95.837	-45.747	1.00	46.78	A16S
ATOM	32140	C1*	G	A1523	189.538	95.619	-46.003	1.00	46.78	A16S
ATOM	32141	N9	G	A1523	188.815	95.678	-44.735	1.00	48.72	A16S
ATOM	32142	C4	G	A1523	187.586	95.124	-44.471	1.00	48.72	A16S
ATOM	32143	N3	G	A1523	186.842	94.415	-45.333	1.00	48.72	A16S
ATOM	32144	C2	G	A1523	185.718	93.995	-44.785	1.00	48.72	A16S
ATOM	32145	N2	G	A1523	184.874	93.220	-45.492	1.00	48.72	A16S
ATOM	32146	N1	G	A1523	185.337	94.285	-43.503	1.00	48.72	A16S
ATOM	32147	C6	G	A1523	186.073	95.033	-42.602	1.00	48.72	A16S
ATOM	32148	O6	G	A1523	185.616	95.261	-41.474	1.00	48.72	A16S
ATOM	32149	C5	G	A1523	187.306	95.453	-43.163	1.00	48.72	A16S
ATOM	32150	N7	G	A1523	188.347	96.183	-42.605	1.00	48.72	A16S
ATOM	32151	C8	G	A1523	189.218	96.296	-43.574	1.00	48.72	A16S
ATOM	32152	C2*	G	A1523	189.096	96.663	-47.029	1.00	46.78	A16S
ATOM	32153	O2*	G	A1523	189.239	96.102	-48.313	1.00	46.78	A16S
ATOM	32154	C3*	G	A1523	190.138	97.746	-46.844	1.00	46.78	A16S
ATOM	32155	O3*	G	A1523	190.317	98.495	-48.017	1.00	46.78	A16S
ATOM	32156	P	C	A1524	189.704	99.975	-48.095	1.00	41.52	A16S
ATOM	32157	O1P	C	A1524	190.283	100.657	-49.276	1.00	56.33	A16S
ATOM	32158	O2P	C	A1524	189.861	100.582	-46.743	1.00	56.33	A16S
ATOM	32159	O5*	C	A1524	188.153	99.739	-48.359	1.00	41.52	A16S
ATOM	32160	C5*	C	A1524	187.734	98.897	-49.426	1.00	41.52	A16S
ATOM	32161	C4*	C	A1524	186.276	98.557	-49.292	1.00	41.52	A16S
ATOM	32162	O4*	C	A1524	186.078	97.552	-48.270	1.00	41.52	A16S
ATOM	32163	C1*	C	A1524	184.801	97.733	-47.679	1.00	41.52	A16S
ATOM	32164	N1	C	A1524	184.979	97.909	-46.231	1.00	56.33	A16S
ATOM	32165	C6	C	A1524	186.118	98.455	-45.723	1.00	56.33	A16S
ATOM	32166	C2	C	A1524	183.963	97.505	-45.386	1.00	56.33	A16S
ATOM	32167	O2	C	A1524	182.937	97.041	-45.877	1.00	56.33	A16S
ATOM	32168	N3	C	A1524	184.117	97.630	-44.057	1.00	56.33	A16S
ATOM	32169	C4	C	A1524	185.235	98.149	-43.568	1.00	56.33	A16S
ATOM	32170	N4	C	A1524	185.359	98.240	-42.243	1.00	56.33	A16S
ATOM	32171	C5	C	A1524	186.283	98.595	-44.410	1.00	56.33	A16S
ATOM	32172	C2*	C	A1524	184.128	98.944	-48.341	1.00	41.52	A16S
ATOM	32173	O2*	C	A1524	183.187	98.532	-49.328	1.00	41.52	A16S
ATOM	32174	C3*	C	A1524	185.335	99.689	-48.906	1.00	41.52	A16S
ATOM	32175	O3*	C	A1524	185.015	100.567	-49.981	1.00	41.52	A16S
ATOM	32176	P	G	A1525	184.985	102.146	-49.707	1.00	46.20	A16S
ATOM	32177	O1P	G	A1525	184.857	102.888	-50.993	1.00	49.89	A16S
ATOM	32178	O2P	G	A1525	186.131	102.453	-48.793	1.00	49.89	A16S
ATOM	32179	O5*	G	A1525	183.596	102.319	-48.953	1.00	46.20	A16S



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ATOM	32180	C5*	G	A1525	182.384	102.108	-49.684	1.00	46.20	A16S
ATOM	32181	C4*	G	A1525	181.193	102.052	-48.766	1.00	46.20	A16S
ATOM	32182	O4*	G	A1525	181.235	100.858	-47.954	1.00	46.20	A16S
ATOM	32183	C1*	G	A1525	180.598	101.109	-46.723	1.00	46.20	A16S
ATOM	32184	N9	G	A1525	181.599	100.983	-45.685	1.00	49.89	A16S
ATOM	32185	C4	G	A1525	181.374	100.672	-44.380	1.00	49.89	A16S
ATOM	32186	N3	G	A1525	180.187	100.353	-43.840	1.00	49.89	A16S
ATOM	32187	C2	G	A1525	180.293	100.091	-42.556	1.00	49.89	A16S
ATOM	32188	N2	G	A1525	179.220	99.658	-41.869	1.00	49.89	A16S
ATOM	32189	N1	G	A1525	181.462	100.211	-41.852	1.00	49.89	A16S
ATOM	32190	C6	G	A1525	182.683	100.575	-42.395	1.00	49.89	A16S
ATOM	32191	O6	G	A1525	183.662	100.706	-41.674	1.00	49.89	A16S
ATOM	32192	C5	G	A1525	182.595	100.775	-43.769	1.00	49.89	A16S
ATOM	32193	N7	G	A1525	183.578	101.093	-44.686	1.00	49.89	A16S
ATOM	32194	C8	G	A1525	182.939	101.202	-45.813	1.00	49.89	A16S
ATOM	32195	C2*	G	A1525	180.086	102.546	-46.742	1.00	46.20	A16S
ATOM	32196	O2*	G	A1525	178.715	102.540	-47.100	1.00	46.20	A16S
ATOM	32197	C3*	G	A1525	181.015	103.178	-47.771	1.00	46.20	A16S
ATOM	32198	O3*	G	A1525	180.464	104.317	-48.387	1.00	46.20	A16S
ATOM	32199	P	G	A1526	180.713	105.754	-47.732	1.00	52.27	A16S
ATOM	32200	O1P	G	A1526	180.073	106.723	-48.661	1.00	60.93	A16S
ATOM	32201	O2P	G	A1526	182.150	105.907	-47.378	1.00	60.93	A16S
ATOM	32202	O5*	G	A1526	179.871	105.690	-46.387	1.00	52.27	A16S
ATOM	32203	C5*	G	A1526	178.475	105.434	-46.448	1.00	52.27	A16S
ATOM	32204	C4*	G	A1526	177.934	105.122	-45.084	1.00	52.27	A16S
ATOM	32205	O4*	G	A1526	178.594	103.949	-44.558	1.00	52.27	A16S
ATOM	32206	C1*	G	A1526	178.638	104.030	-43.145	1.00	52.27	A16S
ATOM	32207	N9	G	A1526	180.029	103.954	-42.725	1.00	60.93	A16S
ATOM	32208	C4	G	A1526	180.502	103.934	-41.435	1.00	60.93	A16S
ATOM	32209	N3	G	A1526	179.761	103.989	-40.319	1.00	60.93	A16S
ATOM	32210	C2	G	A1526	180.503	103.930	-39.236	1.00	60.93	A16S
ATOM	32211	N2	G	A1526	179.934	103.960	-38.036	1.00	60.93	A16S
ATOM	32212	N1	G	A1526	181.856	103.836	-39.249	1.00	60.93	A16S
ATOM	32213	C6	G	A1526	182.636	103.780	-40.387	1.00	60.93	A16S
ATOM	32214	O6	G	A1526	183.857	103.696	-40.289	1.00	60.93	A16S
ATOM	32215	C5	G	A1526	181.860	103.835	-41.549	1.00	60.93	A16S
ATOM	32216	N7	G	A1526	182.241	103.806	-42.878	1.00	60.93	A16S
ATOM	32217	C8	G	A1526	181.122	103.881	-43.538	1.00	60.93	A16S
ATOM	32218	C2*	G	A1526	177.977	105.344	-42.735	1.00	52.27	A16S
ATOM	32219	O2*	G	A1526	176.608	105.111	-42.452	1.00	52.27	A16S
ATOM	32220	C3*	G	A1526	178.121	106.166	-44.001	1.00	52.27	A16S
ATOM	32221	O3*	G	A1526	177.120	107.164	-44.025	1.00	52.27	A16S
ATOM	32222	P	C	A1527	177.376	108.538	-43.240	1.00	47.28	A16S
ATOM	32223	O1P	C	A1527	176.230	109.432	-43.552	1.00	51.01	A16S
ATOM	32224	O2P	C	A1527	178.762	108.998	-43.520	1.00	51.01	A16S
ATOM	32225	O5*	C	A1527	177.342	108.116	-41.709	1.00	47.28	A16S
ATOM	32226	C5*	C	A1527	176.098	107.943	-41.030	1.00	47.28	A16S
ATOM	32227	C4*	C	A1527	176.283	108.182	-39.561	1.00	47.28	A16S
ATOM	32228	O4*	C	A1527	177.080	107.112	-39.012	1.00	47.28	A16S
ATOM	32229	C1*	C	A1527	177.997	107.642	-38.073	1.00	47.28	A16S
ATOM	32230	N1	C	A1527	179.360	107.421	-38.588	1.00	51.01	A16S
ATOM	32231	C6	C	A1527	179.613	107.325	-39.935	1.00	51.01	A16S
ATOM	32232	C2	C	A1527	180.384	107.293	-37.680	1.00	51.01	A16S
ATOM	32233	O2	C	A1527	180.127	107.436	-36.491	1.00	51.01	A16S
ATOM	32234	N3	C	A1527	181.632	107.021	-38.118	1.00	51.01	A16S
ATOM	32235	C4	C	A1527	181.866	106.892	-39.419	1.00	51.01	A16S
ATOM	32236	N4	C	A1527	183.088	106.585	-39.793	1.00	51.01	A16S
ATOM	32237	C5	C	A1527	180.843	107.062	-40.389	1.00	51.01	A16S
ATOM	32238	C2*	C	A1527	177.675	109.124	-37.887	1.00	47.28	A16S
ATOM	32239	O2*	C	A1527	176.739	109.266	-36.838	1.00	47.28	A16S
ATOM	32240	C3*	C	A1527	177.033	109.460	-39.218	1.00	47.28	A16S
ATOM	32241	O3*	C	A1527	176.145	110.545	-39.070	1.00	47.28	A16S
ATOM	32242	P	U	A1528	176.731	112.026	-38.954	1.00	55.09	A16S
ATOM	32243	O1P	U	A1528	175.550	112.934	-38.939	1.00	53.96	A16S
ATOM	32244	O2P	U	A1528	177.766	112.197	-39.996	1.00	53.96	A16S
ATOM	32245	O5*	U	A1528	177.476	112.038	-37.546	1.00	55.09	A16S
ATOM	32246	C5*	U	A1528	176.733	111.977	-36.317	1.00	55.09	A16S
ATOM	32247	C4*	U	A1528	177.638	112.262	-35.143	1.00	55.09	A16S
ATOM	32248	O4*	U	A1528	178.740	111.317	-35.164	1.00	55.09	A16S
ATOM	32249	C1*	U	A1528	179.979	111.990	-35.019	1.00	55.09	A16S
ATOM	32250	N1	U	A1528	180.923	111.369	-35.961	1.00	53.96	A16S
ATOM	32251	C6	U	A1528	180.679	111.390	-37.313	1.00	53.96	A16S
ATOM	32252	C2	U	A1528	182.051	110.755	-35.452	1.00	53.96	A16S
ATOM	32253	O2	U	A1528	182.311	110.711	-34.255	1.00	53.96	A16S
ATOM	32254	N3	U	A1528	182.865	110.182	-36.394	1.00	53.96	A16S
ATOM	32255	C4	U	A1528	182.664	110.154	-37.760	1.00	53.96	A16S
ATOM	32256	O4	U	A1528	183.439	109.514	-38.475	1.00	53.96	A16S



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ATOM	32257	C5	U	A1528	181.484	110.820	-38.199	1.00	53.96	A16S
ATOM	32258	C2*	U	A1528	179.771	113.477	-35.310	1.00	55.09	A16S
ATOM	32259	O2*	U	A1528	180.498	114.216	-34.360	1.00	55.09	A16S
ATOM	32260	C3*	U	A1528	178.275	113.644	-35.097	1.00	55.09	A16S
ATOM	32261	O3*	U	A1528	177.651	114.773	-34.458	1.00	55.09	A16S
ATOM	32262	P	G	A1529	177.401	114.783	-32.871	1.00	45.64	A16S
ATOM	32263	O1P	G	A1529	175.959	114.539	-32.681	1.00	44.27	A16S
ATOM	32264	O2P	G	A1529	178.040	115.978	-32.270	1.00	44.27	A16S
ATOM	32265	O5*	G	A1529	178.149	113.509	-32.321	1.00	45.64	A16S
ATOM	32266	C5*	G	A1529	177.507	112.672	-31.396	1.00	45.64	A16S
ATOM	32267	C4*	G	A1529	178.513	112.139	-30.445	1.00	45.64	A16S
ATOM	32268	O4*	G	A1529	177.956	110.928	-29.897	1.00	45.64	A16S
ATOM	32269	C1*	G	A1529	178.707	109.820	-30.318	1.00	45.64	A16S
ATOM	32270	N9	G	A1529	177.749	108.766	-30.633	1.00	44.27	A16S
ATOM	32271	C4	G	A1529	176.672	108.872	-31.461	1.00	44.27	A16S
ATOM	32272	N3	G	A1529	176.301	109.976	-32.120	1.00	44.27	A16S
ATOM	32273	C2	G	A1529	175.237	109.761	-32.866	1.00	44.27	A16S
ATOM	32274	N2	G	A1529	174.724	110.768	-33.591	1.00	44.27	A16S
ATOM	32275	N1	G	A1529	174.593	108.551	-32.956	1.00	44.27	A16S
ATOM	32276	C6	G	A1529	174.961	107.406	-32.268	1.00	44.27	A16S
ATOM	32277	O6	G	A1529	174.311	106.374	-32.398	1.00	44.27	A16S
ATOM	32278	C5	G	A1529	176.091	107.625	-31.472	1.00	44.27	A16S
ATOM	32279	N7	G	A1529	176.775	106.757	-30.643	1.00	44.27	A16S
ATOM	32280	C8	G	A1529	177.749	107.477	-30.164	1.00	44.27	A16S
ATOM	32281	C2*	G	A1529	179.571	110.290	-31.495	1.00	45.64	A16S
ATOM	32282	O2*	G	A1529	180.781	109.558	-31.628	1.00	45.64	A16S
ATOM	32283	C3*	G	A1529	179.804	111.761	-31.152	1.00	45.64	A16S
ATOM	32284	O3*	G	A1529	180.929	111.941	-30.268	1.00	45.64	A16S
ATOM	32285	P	G	A1530	181.493	113.423	-29.943	1.00	66.27	A16S
ATOM	32286	O1P	G	A1530	182.815	113.235	-29.274	1.00	81.80	A16S
ATOM	32287	O2P	G	A1530	180.449	114.255	-29.294	1.00	81.80	A16S
ATOM	32288	O5*	G	A1530	181.722	114.088	-31.361	1.00	66.27	A16S
ATOM	32289	C5*	G	A1530	182.491	113.420	-32.343	1.00	66.27	A16S
ATOM	32290	C4*	G	A1530	183.957	113.701	-32.139	1.00	66.27	A16S
ATOM	32291	O4*	G	A1530	184.653	112.755	-32.966	1.00	66.27	A16S
ATOM	32292	C1*	G	A1530	185.781	113.366	-33.530	1.00	66.27	A16S
ATOM	32293	N9	G	A1530	185.669	113.265	-34.974	1.00	81.80	A16S
ATOM	32294	C4	G	A1530	186.714	113.081	-35.820	1.00	81.80	A16S
ATOM	32295	N3	G	A1530	188.007	112.969	-35.451	1.00	81.80	A16S
ATOM	32296	C2	G	A1530	188.797	112.794	-36.480	1.00	81.80	A16S
ATOM	32297	N2	G	A1530	190.116	112.649	-36.277	1.00	81.80	A16S
ATOM	32298	N1	G	A1530	188.353	112.743	-37.784	1.00	81.80	A16S
ATOM	32299	C6	G	A1530	187.019	112.863	-38.189	1.00	81.80	A16S
ATOM	32300	O6	G	A1530	186.721	112.814	-39.395	1.00	81.80	A16S
ATOM	32301	C5	G	A1530	186.161	113.038	-37.081	1.00	81.80	A16S
ATOM	32302	N7	G	A1530	184.780	113.187	-37.020	1.00	81.80	A16S
ATOM	32303	C8	G	A1530	184.533	113.322	-35.748	1.00	81.80	A16S
ATOM	32304	C2*	G	A1530	185.902	114.792	-32.995	1.00	66.27	A16S
ATOM	32305	O2*	G	A1530	186.793	114.772	-31.905	1.00	66.27	A16S
ATOM	32306	C3*	G	A1530	184.481	115.085	-32.541	1.00	66.27	A16S
ATOM	32307	O3*	G	A1530	184.517	115.988	-31.418	1.00	66.27	A16S
ATOM	32308	P	A	A1531	185.125	117.476	-31.591	1.00	82.89	A16S
ATOM	32309	O1P	A	A1531	184.416	118.364	-30.633	1.00	96.37	A16S
ATOM	32310	O2P	A	A1531	185.141	117.822	-33.040	1.00	96.37	A16S
ATOM	32311	O5*	A	A1531	186.644	117.349	-31.119	1.00	82.89	A16S
ATOM	32312	C5*	A	A1531	187.043	117.480	-29.726	1.00	82.89	A16S
ATOM	32313	C4*	A	A1531	188.554	117.670	-29.624	1.00	82.89	A16S
ATOM	32314	O4*	A	A1531	189.198	116.550	-30.289	1.00	82.89	A16S
ATOM	32315	C1*	A	A1531	190.309	117.005	-31.055	1.00	82.89	A16S
ATOM	32316	N9	A	A1531	189.983	116.853	-32.482	1.00	96.37	A16S
ATOM	32317	C4	A	A1531	190.873	116.661	-33.513	1.00	96.37	A16S
ATOM	32318	N3	A	A1531	192.215	116.577	-33.434	1.00	96.37	A16S
ATOM	32319	C2	A	A1531	192.743	116.390	-34.638	1.00	96.37	A16S
ATOM	32320	N1	A	A1531	192.129	116.279	-35.823	1.00	96.37	A16S
ATOM	32321	C6	A	A1531	190.778	116.363	-35.865	1.00	96.37	A16S
ATOM	32322	N6	A	A1531	190.155	116.238	-37.042	1.00	96.37	A16S
ATOM	32323	C5	A	A1531	190.102	116.572	-34.662	1.00	96.37	A16S
ATOM	32324	N7	A	A1531	188.754	116.714	-34.369	1.00	96.37	A16S
ATOM	32325	C8	A	A1531	188.734	116.878	-33.071	1.00	96.37	A16S
ATOM	32326	C2*	A	A1531	190.538	118.468	-30.690	1.00	82.89	A16S
ATOM	32327	O2*	A	A1531	191.452	118.564	-29.614	1.00	82.89	A16S
ATOM	32328	C3*	A	A1531	189.129	118.905	-30.320	1.00	82.89	A16S
ATOM	32329	O3*	A	A1531	189.157	120.064	-29.502	1.00	82.89	A16S
ATOM	32330	P	U	A1532	189.304	121.511	-30.185	1.00	91.57	A16S
ATOM	32331	O1P	U	A1532	189.651	122.456	-29.096	1.00	117.88	A16S
ATOM	32332	O2P	U	A1532	188.109	121.765	-31.024	1.00	117.88	A16S
ATOM	32333	O5*	U	A1532	190.545	121.363	-31.172	1.00	91.57	A16S



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ATOM	32334	C5*	U	A1532	191.899	121.542	-30.714	1.00	91.57	A16S
ATOM	32335	C4*	U	A1532	192.839	121.647	-31.898	1.00	91.57	A16S
ATOM	32336	O4*	U	A1532	192.753	120.417	-32.672	1.00	91.57	A16S
ATOM	32337	C1*	U	A1532	192.894	120.705	-34.055	1.00	91.57	A16S
ATOM	32338	N1	U	A1532	191.651	120.337	-34.752	1.00117.88		A16S
ATOM	32339	C6	U	A1532	190.417	120.516	-34.163	1.00117.88		A16S
ATOM	32340	C2	U	A1532	191.758	119.842	-36.038	1.00117.88		A16S
ATOM	32341	O2	U	A1532	192.827	119.608	-36.576	1.00117.88		A16S
ATOM	32342	N3	U	A1532	190.563	119.623	-36.672	1.00117.88		A16S
ATOM	32343	C4	U	A1532	189.302	119.820	-36.155	1.00117.88		A16S
ATOM	32344	O4	U	A1532	188.325	119.673	-36.885	1.00117.88		A16S
ATOM	32345	C5	U	A1532	189.273	120.280	-34.803	1.00117.88		A16S
ATOM	32346	C2*	U	A1532	193.145	122.207	-34.196	1.00	91.57	A16S
ATOM	32347	O2*	U	A1532	194.528	122.458	-34.323	1.00	91.57	A16S
ATOM	32348	C3*	U	A1532	192.526	122.747	-32.910	1.00	91.57	A16S
ATOM	32349	O3*	U	A1532	193.026	124.040	-32.560	1.00	91.57	A16S
ATOM	32350	P	C	A1533	192.333	125.347	-33.189	1.00138.06		A16S
ATOM	32351	O1P	C	A1533	190.899	125.306	-32.807	1.00196.88		A16S
ATOM	32352	O2P	C	A1533	193.147	126.533	-32.834	1.00196.88		A16S
ATOM	32353	O5*	C	A1533	192.462	125.113	-34.764	1.00138.06		A16S
ATOM	32354	C5*	C	A1533	191.323	125.249	-35.649	1.00138.06		A16S
ATOM	32355	C4*	C	A1533	191.780	125.562	-37.063	1.00138.06		A16S
ATOM	32356	O4*	C	A1533	192.552	126.798	-37.038	1.00138.06		A16S
ATOM	32357	C1*	C	A1533	193.678	126.685	-37.897	1.00138.06		A16S
ATOM	32358	N1	C	A1533	194.897	126.758	-37.045	1.00196.88		A16S
ATOM	32359	C6	C	A1533	194.919	127.601	-35.965	1.00196.88		A16S
ATOM	32360	C2	C	A1533	196.039	125.945	-37.336	1.00196.88		A16S
ATOM	32361	O2	C	A1533	196.034	125.192	-38.330	1.00196.88		A16S
ATOM	32362	N3	C	A1533	197.116	126.014	-36.517	1.00196.88		A16S
ATOM	32363	C4	C	A1533	197.108	126.835	-35.462	1.00196.88		A16S
ATOM	32364	N4	C	A1533	198.191	126.855	-34.684	1.00196.88		A16S
ATOM	32365	C5	C	A1533	195.988	127.670	-35.157	1.00196.88		A16S
ATOM	32366	C2*	C	A1533	193.515	125.379	-38.685	1.00138.06		A16S
ATOM	32367	O2*	C	A1533	192.868	125.614	-39.922	1.00138.06		A16S
ATOM	32368	C3*	C	A1533	192.701	124.534	-37.715	1.00138.06		A16S
ATOM	32369	O3*	C	A1533	192.015	123.472	-38.382	1.00138.06		A16S
ATOM	32370	P	A	A1534	192.791	122.093	-38.674	0.00112.32		A16S
ATOM	32371	O1P	A	A1534	191.825	121.133	-39.267	0.00112.32		A16S
ATOM	32372	O2P	A	A1534	193.526	121.730	-37.439	0.00112.32		A16S
ATOM	32373	O5*	A	A1534	193.887	122.467	-39.770	0.00112.32		A16S
ATOM	32374	C5*	A	A1534	193.513	122.960	-41.070	0.00112.32		A16S
ATOM	32375	C4*	A	A1534	194.747	123.177	-41.918	0.00112.32		A16S
ATOM	32376	O4*	A	A1534	195.634	124.113	-41.251	0.00112.32		A16S
ATOM	32377	C1*	A	A1534	196.985	123.773	-41.526	0.00112.32		A16S
ATOM	32378	N9	A	A1534	197.675	123.558	-40.252	0.00112.32		A16S
ATOM	32379	C4	A	A1534	198.774	124.247	-39.796	0.00112.32		A16S
ATOM	32380	N3	A	A1534	199.429	125.243	-40.418	0.00112.32		A16S
ATOM	32381	C2	A	A1534	200.448	125.671	-39.674	0.00112.32		A16S
ATOM	32382	N1	A	A1534	200.855	125.249	-38.471	0.00112.32		A16S
ATOM	32383	C6	A	A1534	200.175	124.247	-37.874	0.00112.32		A16S
ATOM	32384	N6	A	A1534	200.582	123.826	-36.674	0.00112.32		A16S
ATOM	32385	C5	A	A1534	199.073	123.705	-38.559	0.00112.32		A16S
ATOM	32386	N7	A	A1534	198.181	122.692	-38.237	0.00112.32		A16S
ATOM	32387	C8	A	A1534	197.374	122.644	-39.269	0.00112.32		A16S
ATOM	32388	C2*	A	A1534	196.985	122.544	-42.441	0.00112.32		A16S
ATOM	32389	O2*	A	A1534	197.121	122.973	-43.782	0.00112.32		A16S
ATOM	32390	C3*	A	A1534	195.614	121.949	-42.148	0.00112.32		A16S
ATOM	32391	O3*	A	A1534	195.087	120.914	-42.986	0.00112.32		A16S
TER	32391	A		A1534						A16S
ATOM	32392	O5*	UNK	X	1	208.571	118.008	-31.298	1.00148.52	XMES
ATOM	32393	C5*	UNK	X	1	208.381	116.676	-30.810	1.00148.52	XMES
ATOM	32394	C4*	UNK	X	1	209.497	115.734	-31.213	1.00148.52	XMES
ATOM	32395	O4*	UNK	X	1	210.735	116.162	-30.581	1.00148.52	XMES
ATOM	32396	C1*	UNK	X	1	211.517	115.024	-30.237	1.00148.52	XMES
ATOM	32397	N1	UNK	X	1	211.752	115.021	-28.774	1.00154.75	XMES
ATOM	32398	C6	UNK	X	1	211.200	115.986	-27.972	1.00154.75	XMES
ATOM	32399	C2	UNK	X	1	212.556	114.000	-28.206	1.00154.75	XMES
ATOM	32400	O2	UNK	X	1	213.049	113.127	-28.946	1.00154.75	XMES
ATOM	32401	N3	UNK	X	1	212.766	113.998	-26.867	1.00154.75	XMES
ATOM	32402	C4	UNK	X	1	212.219	114.951	-26.099	1.00154.75	XMES
ATOM	32403	N4	UNK	X	1	212.455	114.909	-24.783	1.00154.75	XMES
ATOM	32404	C5	UNK	X	1	211.405	115.990	-26.646	1.00154.75	XMES
ATOM	32405	C2*	UNK	X	1	210.770	113.778	-30.714	1.00148.52	XMES
ATOM	32406	O2*	UNK	X	1	211.288	113.368	-31.964	1.00148.52	XMES
ATOM	32407	C3*	UNK	X	1	209.330	114.279	-30.784	1.00148.52	XMES
ATOM	32408	O3*	UNK	X	1	208.550	113.499	-31.696	1.00148.52	XMES
ATOM	32409	P	UNK	X	2	207.579	112.338	-31.130	1.00102.93	XMES



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ATOM	32410	O1P	UNK	X	2	207.294	111.386	-32.236	1.00130.12	XMES
ATOM	32411	O2P	UNK	X	2	206.443	113.001	-30.427	1.00130.12	XMES
ATOM	32412	O5*	UNK	X	2	208.463	111.572	-30.044	1.00102.93	XMES
ATOM	32413	C5*	UNK	X	2	209.570	110.751	-30.436	1.00102.93	XMES
ATOM	32414	C4*	UNK	X	2	210.176	110.077	-29.231	1.00102.93	XMES
ATOM	32415	O4*	UNK	X	2	210.807	111.064	-28.376	1.00102.93	XMES
ATOM	32416	C1*	UNK	X	2	210.591	110.729	-27.012	1.00102.93	XMES
ATOM	32417	N1	UNK	X	2	209.793	111.803	-26.392	1.00130.12	XMES
ATOM	32418	C6	UNK	X	2	208.970	112.608	-27.151	1.00130.12	XMES
ATOM	32419	C2	UNK	X	2	209.887	111.982	-25.020	1.00130.12	XMES
ATOM	32420	O2	UNK	X	2	210.597	111.292	-24.303	1.00130.12	XMES
ATOM	32421	N3	UNK	X	2	209.112	113.000	-24.516	1.00130.12	XMES
ATOM	32422	C4	UNK	X	2	208.271	113.840	-25.225	1.00130.12	XMES
ATOM	32423	O4	UNK	X	2	207.643	114.720	-24.632	1.00130.12	XMES
ATOM	32424	C5	UNK	X	2	208.229	113.591	-26.628	1.00130.12	XMES
ATOM	32425	C2*	UNK	X	2	209.865	109.385	-26.981	1.00102.93	XMES
ATOM	32426	O2*	UNK	X	2	210.798	108.333	-26.854	1.00102.93	XMES
ATOM	32427	C3*	UNK	X	2	209.169	109.392	-28.332	1.00102.93	XMES
ATOM	32428	O3*	UNK	X	2	208.843	108.102	-28.790	1.00102.93	XMES
ATOM	32429	P	UNK	X	3	207.316	107.629	-28.748	1.00 85.68	XMES
ATOM	32430	O1P	UNK	X	3	206.488	108.677	-29.416	1.00 81.82	XMES
ATOM	32431	O2P	UNK	X	3	207.260	106.227	-29.225	1.00 81.82	XMES
ATOM	32432	O5*	UNK	X	3	206.967	107.637	-27.198	1.00 85.68	XMES
ATOM	32433	C5*	UNK	X	3	207.706	106.826	-26.281	1.00 85.68	XMES
ATOM	32434	C4*	UNK	X	3	207.327	107.169	-24.866	1.00 85.68	XMES
ATOM	32435	O4*	UNK	X	3	207.683	108.544	-24.587	1.00 85.68	XMES
ATOM	32436	C1*	UNK	X	3	206.762	109.093	-23.659	1.00 85.68	XMES
ATOM	32437	N1	UNK	X	3	206.138	110.302	-24.233	1.00 81.82	XMES
ATOM	32438	C6	UNK	X	3	206.020	110.500	-25.600	1.00 81.82	XMES
ATOM	32439	C2	UNK	X	3	205.666	111.262	-23.336	1.00 81.82	XMES
ATOM	32440	O2	UNK	X	3	205.734	111.130	-22.118	1.00 81.82	XMES
ATOM	32441	N3	UNK	X	3	205.112	112.381	-23.913	1.00 81.82	XMES
ATOM	32442	C4	UNK	X	3	204.983	112.649	-25.257	1.00 81.82	XMES
ATOM	32443	O4	UNK	X	3	204.573	113.757	-25.606	1.00 81.82	XMES
ATOM	32444	C5	UNK	X	3	205.472	111.610	-26.127	1.00 81.82	XMES
ATOM	32445	C2*	UNK	X	3	205.757	107.999	-23.305	1.00 85.68	XMES
ATOM	32446	O2*	UNK	X	3	206.163	107.343	-22.115	1.00 85.68	XMES
ATOM	32447	C3*	UNK	X	3	205.851	107.097	-24.524	1.00 85.68	XMES
ATOM	32448	O3*	UNK	X	3	205.445	105.782	-24.220	1.00 85.68	XMES
ATOM	32449	P	U	X	4	204.025	105.249	-24.744	1.00 67.13	XMES
ATOM	32450	O1P	U	X	4	204.098	105.176	-26.225	1.00 67.13	XMES
ATOM	32451	O2P	U	X	4	202.945	106.041	-24.109	1.00 67.13	XMES
ATOM	32452	O5*	U	X	4	203.958	103.785	-24.121	1.00 67.13	XMES
ATOM	32453	C5*	U	X	4	203.344	102.692	-24.817	1.00 67.13	XMES
ATOM	32454	C4*	U	X	4	203.563	101.413	-24.049	1.00 67.13	XMES
ATOM	32455	O4*	U	X	4	204.986	101.110	-23.979	1.00 67.13	XMES
ATOM	32456	C1*	U	X	4	205.299	100.549	-22.710	1.00 67.13	XMES
ATOM	32457	N1	U	X	4	206.259	101.436	-22.023	1.00 67.13	XMES
ATOM	32458	C6	U	X	4	206.645	102.638	-22.582	1.00 67.13	XMES
ATOM	32459	C2	U	X	4	206.757	101.040	-20.778	1.00 67.13	XMES
ATOM	32460	O2	U	X	4	206.470	99.974	-20.243	1.00 67.13	XMES
ATOM	32461	N3	U	X	4	207.606	101.941	-20.183	1.00 67.13	XMES
ATOM	32462	C4	U	X	4	208.012	103.165	-20.679	1.00 67.13	XMES
ATOM	32463	O4	U	X	4	208.758	103.884	-19.998	1.00 67.13	XMES
ATOM	32464	C5	U	X	4	207.478	103.490	-21.970	1.00 67.13	XMES
ATOM	32465	C2*	U	X	4	203.980	100.398	-21.944	1.00 67.13	XMES
ATOM	32466	O2*	U	X	4	203.463	99.099	-22.157	1.00 67.13	XMES
ATOM	32467	C3*	U	X	4	203.120	101.469	-22.599	1.00 67.13	XMES
ATOM	32468	O3*	U	X	4	201.737	101.201	-22.484	1.00 67.13	XMES
ATOM	32469	P	C	X	5	200.872	101.960	-21.361	1.00 69.32	XMES
ATOM	32470	O1P	C	X	5	199.482	101.419	-21.458	1.00 54.66	XMES
ATOM	32471	O2P	C	X	5	201.112	103.426	-21.523	1.00 54.66	XMES
ATOM	32472	O5*	C	X	5	201.487	101.437	-19.983	1.00 69.32	XMES
ATOM	32473	C5*	C	X	5	201.296	100.060	-19.580	1.00 69.32	XMES
ATOM	32474	C4*	C	X	5	202.145	99.720	-18.377	1.00 69.32	XMES
ATOM	32475	O4*	C	X	5	203.523	100.099	-18.641	1.00 69.32	XMES
ATOM	32476	C1*	C	X	5	204.149	100.489	-17.430	1.00 69.32	XMES
ATOM	32477	N1	C	X	5	204.719	101.849	-17.573	1.00 54.66	XMES
ATOM	32478	C6	C	X	5	204.302	102.699	-18.560	1.00 54.66	XMES
ATOM	32479	C2	C	X	5	205.726	102.251	-16.681	1.00 54.66	XMES
ATOM	32480	O2	C	X	5	206.062	101.472	-15.761	1.00 54.66	XMES
ATOM	32481	N3	C	X	5	206.308	103.470	-16.837	1.00 54.66	XMES
ATOM	32482	C4	C	X	5	205.907	104.278	-17.817	1.00 54.66	XMES
ATOM	32483	N4	C	X	5	206.509	105.459	-17.942	1.00 54.66	XMES
ATOM	32484	C5	C	X	5	204.865	103.911	-18.717	1.00 54.66	XMES
ATOM	32485	C2*	C	X	5	203.123	100.356	-16.309	1.00 69.32	XMES
ATOM	32486	O2*	C	X	5	203.307	99.108	-15.668	1.00 69.32	XMES



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ATOM	32487	C3*	C	X	5	201.810	100.437	-17.080	1.00	69.32	XMES
ATOM	32488	O3*	C	X	5	200.737	99.835	-16.369	1.00	69.32	XMES
ATOM	32489	P	U	X	6	199.850	100.731	-15.366	1.00	99.00	XMES
ATOM	32490	O1P	U	X	6	198.878	99.813	-14.733	1.00	59.14	XMES
ATOM	32491	O2P	U	X	6	199.355	101.940	-16.074	1.00	59.14	XMES
ATOM	32492	O5*	U	X	6	200.880	101.192	-14.241	1.00	99.00	XMES
ATOM	32493	C5*	U	X	6	201.358	100.261	-13.244	1.00	99.00	XMES
ATOM	32494	C4*	U	X	6	202.209	100.980	-12.224	1.00	99.00	XMES
ATOM	32495	O4*	U	X	6	203.375	101.535	-12.881	1.00	99.00	XMES
ATOM	32496	C1*	U	X	6	203.682	102.804	-12.322	1.00	99.00	XMES
ATOM	32497	N1	U	X	6	203.635	103.805	-13.403	1.00	59.14	XMES
ATOM	32498	C6	U	X	6	202.800	103.636	-14.486	1.00	59.14	XMES
ATOM	32499	C2	U	X	6	204.470	104.914	-13.312	1.00	59.14	XMES
ATOM	32500	O2	U	X	6	205.206	105.122	-12.366	1.00	59.14	XMES
ATOM	32501	N3	U	X	6	204.407	105.775	-14.377	1.00	59.14	XMES
ATOM	32502	C4	U	X	6	203.607	105.655	-15.504	1.00	59.14	XMES
ATOM	32503	O4	U	X	6	203.680	106.512	-16.404	1.00	59.14	XMES
ATOM	32504	C5	U	X	6	202.759	104.493	-15.510	1.00	59.14	XMES
ATOM	32505	C2*	U	X	6	202.706	103.059	-11.169	1.00	99.00	XMES
ATOM	32506	O2*	U	X	6	203.310	102.623	-9.968	1.00	99.00	XMES
ATOM	32507	C3*	U	X	6	201.537	102.171	-11.564	1.00	99.00	XMES
ATOM	32508	O3*	U	X	6	200.519	101.876	-10.603	1.00	99.00	XMES
TER	32508		U	X	6						XMES
ATOM	32509	CB	VAL	B	7	150.981	170.611	-20.152	1.00	69.58	BS2
ATOM	32510	CG1	VAL	B	7	152.252	171.153	-19.501	1.00	69.58	BS2
ATOM	32511	CG2	VAL	B	7	149.772	170.957	-19.292	1.00	69.58	BS2
ATOM	32512	C	VAL	B	7	149.879	170.276	-22.401	1.00	190.04	BS2
ATOM	32513	O	VAL	B	7	148.812	169.878	-21.927	1.00	190.04	BS2
ATOM	32514	N	VAL	B	7	150.309	172.613	-21.537	1.00	190.04	BS2
ATOM	32515	CA	VAL	B	7	150.802	171.204	-21.591	1.00	190.04	BS2
ATOM	32516	N	LYS	B	8	150.297	169.947	-23.624	1.00	110.35	BS2
ATOM	32517	CA	LYS	B	8	149.545	169.049	-24.512	1.00	110.35	BS2
ATOM	32518	CB	LYS	B	8	148.076	169.504	-24.624	1.00	157.31	BS2
ATOM	32519	CG	LYS	B	8	147.861	171.014	-24.710	1.00	157.31	BS2
ATOM	32520	CD	LYS	B	8	148.545	171.608	-25.926	1.00	157.31	BS2
ATOM	32521	CE	LYS	B	8	148.325	173.101	-26.030	1.00	157.31	BS2
ATOM	32522	NZ	LYS	B	8	149.020	173.647	-27.230	1.00	157.31	BS2
ATOM	32523	C	LYS	B	8	150.186	168.923	-25.910	1.00	110.35	BS2
ATOM	32524	O	LYS	B	8	151.389	168.658	-26.019	1.00	110.35	BS2
ATOM	32525	N	GLU	B	9	149.367	169.092	-26.954	1.00	113.32	BS2
ATOM	32526	CA	GLU	B	9	149.768	169.033	-28.369	1.00	113.32	BS2
ATOM	32527	CB	GLU	B	9	151.271	168.821	-28.518	1.00	107.98	BS2
ATOM	32528	CG	GLU	B	9	152.039	170.087	-28.839	1.00	107.98	BS2
ATOM	32529	CD	GLU	B	9	151.659	170.664	-30.184	1.00	107.98	BS2
ATOM	32530	OE1	GLU	B	9	151.162	169.906	-31.052	1.00	107.98	BS2
ATOM	32531	OE2	GLU	B	9	151.874	171.878	-30.374	1.00	107.98	BS2
ATOM	32532	C	GLU	B	9	149.047	167.963	-29.171	1.00	113.32	BS2
ATOM	32533	O	GLU	B	9	148.540	166.997	-28.610	1.00	113.32	BS2
ATOM	32534	N	LEU	B	10	149.010	168.144	-30.489	1.00	79.50	BS2
ATOM	32535	CA	LEU	B	10	148.346	167.199	-31.390	1.00	79.50	BS2
ATOM	32536	CB	LEU	B	10	146.870	167.577	-31.562	1.00	123.52	BS2
ATOM	32537	CG	LEU	B	10	145.866	166.424	-31.669	1.00	123.52	BS2
ATOM	32538	CD1	LEU	B	10	144.471	166.990	-31.873	1.00	123.52	BS2
ATOM	32539	CD2	LEU	B	10	146.239	165.498	-32.812	1.00	123.52	BS2
ATOM	32540	C	LEU	B	10	149.044	167.200	-32.752	1.00	79.50	BS2
ATOM	32541	O	LEU	B	10	149.354	166.144	-33.310	1.00	79.50	BS2
ATOM	32542	N	LEU	B	11	149.271	168.392	-33.294	1.00	98.94	BS2
ATOM	32543	CA	LEU	B	11	149.966	168.507	-34.565	1.00	98.94	BS2
ATOM	32544	CB	LEU	B	11	149.763	169.883	-35.201	1.00	186.62	BS2
ATOM	32545	CG	LEU	B	11	148.466	170.098	-35.983	1.00	186.62	BS2
ATOM	32546	CD1	LEU	B	11	148.482	171.489	-36.603	1.00	186.62	BS2
ATOM	32547	CD2	LEU	B	11	148.329	169.033	-37.065	1.00	186.62	BS2
ATOM	32548	C	LEU	B	11	151.415	168.325	-34.208	1.00	98.94	BS2
ATOM	32549	O	LEU	B	11	152.283	169.099	-34.618	1.00	98.94	BS2
ATOM	32550	N	GLU	B	12	151.666	167.302	-33.403	1.00	86.30	BS2
ATOM	32551	CA	GLU	B	12	153.017	167.024	-33.005	1.00	86.30	BS2
ATOM	32552	CB	GLU	B	12	153.092	166.546	-31.567	1.00	120.44	BS2
ATOM	32553	CG	GLU	B	12	154.207	167.281	-30.879	1.00	120.44	BS2
ATOM	32554	CD	GLU	B	12	155.013	168.109	-31.879	1.00	120.44	BS2
ATOM	32555	OE1	GLU	B	12	155.893	167.544	-32.566	1.00	120.44	BS2
ATOM	32556	OE2	GLU	B	12	154.737	169.320	-31.999	1.00	120.44	BS2
ATOM	32557	C	GLU	B	12	153.702	166.035	-33.920	1.00	86.30	BS2
ATOM	32558	O	GLU	B	12	154.681	165.382	-33.546	1.00	86.30	BS2
ATOM	32559	N	ALA	B	13	153.169	165.929	-35.131	1.00	123.01	BS2
ATOM	32560	CA	ALA	B	13	153.764	165.075	-36.142	1.00	123.01	BS2
ATOM	32561	CB	ALA	B	13	152.893	165.028	-37.382	1.00	37.13	BS2
ATOM	32562	C	ALA	B	13	155.024	165.859	-36.423	1.00	123.01	BS2



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ATOM	32563	O	ALA	B	13	155.918	165.409	-37.132	1.00123.01	BS2
ATOM	32564	N	GLY	B	14	155.058	167.060	-35.849	1.00 78.39	BS2
ATOM	32565	CA	GLY	B	14	156.190	167.944	-35.996	1.00 78.39	BS2
ATOM	32566	C	GLY	B	14	157.483	167.223	-35.696	1.00 78.39	BS2
ATOM	32567	O	GLY	B	14	158.552	167.756	-35.981	1.00 78.39	BS2
ATOM	32568	N	VAL	B	15	157.397	166.025	-35.113	1.00117.26	BS2
ATOM	32569	CA	VAL	B	15	158.600	165.250	-34.810	1.00117.26	BS2
ATOM	32570	CB	VAL	B	15	159.292	165.733	-33.514	1.00 93.80	BS2
ATOM	32571	CG1	VAL	B	15	160.724	165.209	-33.493	1.00 93.80	BS2
ATOM	32572	CG2	VAL	B	15	159.254	167.252	-33.400	1.00 93.80	BS2
ATOM	32573	C	VAL	B	15	158.445	163.725	-34.672	1.00117.26	BS2
ATOM	32574	O	VAL	B	15	158.808	162.965	-35.570	1.00117.26	BS2
ATOM	32575	N	HIS	B	16	157.916	163.291	-33.531	1.00117.68	BS2
ATOM	32576	CA	HIS	B	16	157.751	161.873	-33.203	1.00117.68	BS2
ATOM	32577	CB	HIS	B	16	156.865	161.733	-31.971	1.00198.86	BS2
ATOM	32578	CG	HIS	B	16	157.501	162.254	-30.729	1.00198.86	BS2
ATOM	32579	CD2	HIS	B	16	157.952	161.618	-29.623	1.00198.86	BS2
ATOM	32580	ND1	HIS	B	16	157.811	163.586	-30.561	1.00198.86	BS2
ATOM	32581	CE1	HIS	B	16	158.431	163.748	-29.406	1.00198.86	BS2
ATOM	32582	NE2	HIS	B	16	158.531	162.569	-28.818	1.00198.86	BS2
ATOM	32583	C	HIS	B	16	157.283	160.863	-34.228	1.00117.68	BS2
ATOM	32584	O	HIS	B	16	158.075	160.368	-35.029	1.00117.68	BS2
ATOM	32585	N	PHE	B	17	155.989	160.557	-34.170	1.00105.66	BS2
ATOM	32586	CA	PHE	B	17	155.348	159.555	-35.014	1.00105.66	BS2
ATOM	32587	CB	PHE	B	17	154.707	160.165	-36.283	1.00 94.03	BS2
ATOM	32588	CG	PHE	B	17	155.683	160.687	-37.319	1.00 94.03	BS2
ATOM	32589	CD1	PHE	B	17	156.913	160.061	-37.560	1.00 94.03	BS2
ATOM	32590	CD2	PHE	B	17	155.318	161.760	-38.126	1.00 94.03	BS2
ATOM	32591	CE1	PHE	B	17	157.761	160.488	-38.588	1.00 94.03	BS2
ATOM	32592	CE2	PHE	B	17	156.152	162.196	-39.154	1.00 94.03	BS2
ATOM	32593	CZ	PHE	B	17	157.380	161.556	-39.387	1.00 94.03	BS2
ATOM	32594	C	PHE	B	17	156.295	158.420	-35.367	1.00105.66	BS2
ATOM	32595	O	PHE	B	17	157.293	158.195	-34.674	1.00105.66	BS2
ATOM	32596	N	GLY	B	18	155.976	157.701	-36.436	1.00 78.35	BS2
ATOM	32597	CA	GLY	B	18	156.799	156.585	-36.864	1.00 78.35	BS2
ATOM	32598	C	GLY	B	18	158.301	156.660	-36.637	1.00 78.35	BS2
ATOM	32599	O	GLY	B	18	158.901	157.739	-36.519	1.00 78.35	BS2
ATOM	32600	N	HIS	B	19	158.898	155.472	-36.578	1.00 77.97	BS2
ATOM	32601	CA	HIS	B	19	160.328	155.300	-36.393	1.00 77.97	BS2
ATOM	32602	CB	HIS	B	19	160.739	155.714	-34.979	1.00180.18	BS2
ATOM	32603	CG	HIS	B	19	162.221	155.743	-34.768	1.00180.18	BS2
ATOM	32604	CD2	HIS	B	19	163.003	155.126	-33.853	1.00180.18	BS2
ATOM	32605	ND1	HIS	B	19	163.075	156.477	-35.565	1.00180.18	BS2
ATOM	32606	CE1	HIS	B	19	164.318	156.308	-35.148	1.00180.18	BS2
ATOM	32607	NE2	HIS	B	19	164.302	155.492	-34.110	1.00180.18	BS2
ATOM	32608	C	HIS	B	19	160.677	153.828	-36.644	1.00 77.97	BS2
ATOM	32609	O	HIS	B	19	159.798	153.018	-36.950	1.00 77.97	BS2
ATOM	32610	N	GLU	B	20	161.965	153.504	-36.528	1.00 92.06	BS2
ATOM	32611	CA	GLU	B	20	162.496	152.150	-36.721	1.00 92.06	BS2
ATOM	32612	CB	GLU	B	20	162.178	151.283	-35.504	1.00 78.18	BS2
ATOM	32613	CG	GLU	B	20	162.544	151.926	-34.157	1.00 78.18	BS2
ATOM	32614	CD	GLU	B	20	164.033	152.193	-33.993	1.00 78.18	BS2
ATOM	32615	OE1	GLU	B	20	164.770	152.018	-34.989	1.00 78.18	BS2
ATOM	32616	OE2	GLU	B	20	164.456	152.580	-32.872	1.00 78.18	BS2
ATOM	32617	C	GLU	B	20	162.023	151.453	-37.993	1.00 92.06	BS2
ATOM	32618	O	GLU	B	20	160.824	151.334	-38.256	1.00 92.06	BS2
ATOM	32619	N	ARG	B	21	162.991	150.979	-38.770	1.00120.98	BS2
ATOM	32620	CA	ARG	B	21	162.718	150.310	-40.030	1.00120.98	BS2
ATOM	32621	CB	ARG	B	21	164.021	149.778	-40.633	1.00198.94	BS2
ATOM	32622	CG	ARG	B	21	165.052	149.330	-39.619	1.00198.94	BS2
ATOM	32623	CD	ARG	B	21	166.407	149.142	-40.287	1.00198.94	BS2
ATOM	32624	NE	ARG	B	21	167.477	148.982	-39.308	1.00198.94	BS2
ATOM	32625	CZ	ARG	B	21	167.603	147.936	-38.501	1.00198.94	BS2
ATOM	32626	NH1	ARG	B	21	166.723	146.948	-38.557	1.00198.94	BS2
ATOM	32627	NH2	ARG	B	21	168.604	147.880	-37.631	1.00198.94	BS2
ATOM	32628	C	ARG	B	21	161.666	149.212	-40.004	1.00120.98	BS2
ATOM	32629	O	ARG	B	21	160.476	149.509	-40.076	1.00120.98	BS2
ATOM	32630	N	LYS	B	22	162.084	147.953	-39.887	1.00 68.05	BS2
ATOM	32631	CA	LYS	B	22	161.117	146.854	-39.920	1.00 68.05	BS2
ATOM	32632	CB	LYS	B	22	160.535	146.762	-41.337	1.00142.00	BS2
ATOM	32633	CG	LYS	B	22	159.479	145.693	-41.567	1.00142.00	BS2
ATOM	32634	CD	LYS	B	22	159.120	145.634	-43.053	1.00142.00	BS2
ATOM	32635	CE	LYS	B	22	158.009	144.636	-43.343	1.00142.00	BS2
ATOM	32636	NZ	LYS	B	22	157.659	144.624	-44.790	1.00142.00	BS2
ATOM	32637	C	LYS	B	22	161.668	145.488	-39.496	1.00 68.05	BS2
ATOM	32638	O	LYS	B	22	161.997	144.629	-40.317	1.00 68.05	BS2
ATOM	32639	N	ARG	B	23	161.764	145.301	-38.195	1.00152.03	BS2



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ATOM	32640	CA	ARG	B	23	162.235	144.056	-37.616	1.00152.03	BS2
ATOM	32641	CB	ARG	B	23	163.763	143.973	-37.657	1.00100.43	BS2
ATOM	32642	CG	ARG	B	23	164.431	145.258	-38.073	1.00100.43	BS2
ATOM	32643	CD	ARG	B	23	164.014	146.389	-37.144	1.00100.43	BS2
ATOM	32644	NE	ARG	B	23	164.221	146.019	-35.746	1.00100.43	BS2
ATOM	32645	CZ	ARG	B	23	163.411	146.367	-34.753	1.00100.43	BS2
ATOM	32646	NH1	ARG	B	23	162.335	147.097	-35.007	1.00100.43	BS2
ATOM	32647	NH2	ARG	B	23	163.669	145.977	-33.509	1.00100.43	BS2
ATOM	32648	C	ARG	B	23	161.692	144.182	-36.202	1.00152.03	BS2
ATOM	32649	O	ARG	B	23	162.063	143.452	-35.285	1.00152.03	BS2
ATOM	32650	N	TRP	B	24	160.794	145.159	-36.091	1.00 85.85	BS2
ATOM	32651	CA	TRP	B	24	160.024	145.545	-34.909	1.00 85.85	BS2
ATOM	32652	CB	TRP	B	24	158.572	145.738	-35.354	1.00 60.75	BS2
ATOM	32653	CG	TRP	B	24	157.921	144.428	-35.757	1.00 60.75	BS2
ATOM	32654	CD2	TRP	B	24	156.523	144.143	-35.806	1.00 60.75	BS2
ATOM	32655	CE2	TRP	B	24	156.383	142.794	-36.232	1.00 60.75	BS2
ATOM	32656	CE3	TRP	B	24	155.370	144.890	-35.529	1.00 60.75	BS2
ATOM	32657	CD1	TRP	B	24	158.556	143.274	-36.145	1.00 60.75	BS2
ATOM	32658	NE1	TRP	B	24	157.641	142.290	-36.430	1.00 60.75	BS2
ATOM	32659	CZ2	TRP	B	24	155.135	142.180	-36.388	1.00 60.75	BS2
ATOM	32660	CZ3	TRP	B	24	154.123	144.277	-35.683	1.00 60.75	BS2
ATOM	32661	CH2	TRP	B	24	154.020	142.933	-36.109	1.00 60.75	BS2
ATOM	32662	C	TRP	B	24	160.011	144.605	-33.707	1.00 85.85	BS2
ATOM	32663	O	TRP	B	24	160.954	143.875	-33.418	1.00 85.85	BS2
ATOM	32664	N	ASN	B	25	158.893	144.682	-32.999	1.00 66.23	BS2
ATOM	32665	CA	ASN	B	25	158.600	143.847	-31.849	1.00 66.23	BS2
ATOM	32666	CB	ASN	B	25	158.973	144.517	-30.537	1.00 68.93	BS2
ATOM	32667	CG	ASN	B	25	158.745	143.604	-29.351	1.00 68.93	BS2
ATOM	32668	OD1	ASN	B	25	159.434	143.715	-28.337	1.00 68.93	BS2
ATOM	32669	ND2	ASN	B	25	157.771	142.692	-29.471	1.00 68.93	BS2
ATOM	32670	C	ASN	B	25	157.097	143.674	-31.934	1.00 66.23	BS2
ATOM	32671	O	ASN	B	25	156.329	144.503	-31.449	1.00 66.23	BS2
ATOM	32672	N	PRO	B	26	156.668	142.580	-32.570	1.00 51.45	BS2
ATOM	32673	CD	PRO	B	26	157.529	141.397	-32.745	1.00 65.35	BS2
ATOM	32674	CA	PRO	B	26	155.272	142.228	-32.776	1.00 51.45	BS2
ATOM	32675	CB	PRO	B	26	155.290	140.720	-32.639	1.00 65.35	BS2
ATOM	32676	CG	PRO	B	26	156.571	140.376	-33.302	1.00 65.35	BS2
ATOM	32677	C	PRO	B	26	154.363	142.895	-31.777	1.00 51.45	BS2
ATOM	32678	O	PRO	B	26	153.375	143.504	-32.163	1.00 51.45	BS2
ATOM	32679	N	LYS	B	27	154.714	142.805	-30.496	1.00 43.86	BS2
ATOM	32680	CA	LYS	B	27	153.903	143.383	-29.427	1.00 43.86	BS2
ATOM	32681	CB	LYS	B	27	154.595	143.173	-28.084	1.00 61.55	BS2
ATOM	32682	CG	LYS	B	27	154.571	141.732	-27.609	1.00 61.55	BS2
ATOM	32683	CD	LYS	B	27	154.991	141.632	-26.155	1.00 61.55	BS2
ATOM	32684	CE	LYS	B	27	154.694	140.256	-25.596	1.00 61.55	BS2
ATOM	32685	NZ	LYS	B	27	155.079	140.145	-24.157	1.00 61.55	BS2
ATOM	32686	C	LYS	B	27	153.528	144.856	-29.585	1.00 43.86	BS2
ATOM	32687	O	LYS	B	27	152.417	145.266	-29.245	1.00 43.86	BS2
ATOM	32688	N	PHE	B	28	154.446	145.649	-30.110	1.00 52.07	BS2
ATOM	32689	CA	PHE	B	28	154.184	147.063	-30.295	1.00 52.07	BS2
ATOM	32690	CB	PHE	B	28	155.482	147.781	-30.625	1.00 74.30	BS2
ATOM	32691	CG	PHE	B	28	155.455	149.225	-30.296	1.00 74.30	BS2
ATOM	32692	CD1	PHE	B	28	155.581	149.643	-28.976	1.00 74.30	BS2
ATOM	32693	CD2	PHE	B	28	155.259	150.169	-31.289	1.00 74.30	BS2
ATOM	32694	CE1	PHE	B	28	155.511	150.989	-28.644	1.00 74.30	BS2
ATOM	32695	CE2	PHE	B	28	155.185	151.518	-30.975	1.00 74.30	BS2
ATOM	32696	CZ	PHE	B	28	155.310	151.932	-29.645	1.00 74.30	BS2
ATOM	32697	C	PHE	B	28	153.177	147.293	-31.425	1.00 52.07	BS2
ATOM	32698	O	PHE	B	28	152.914	148.439	-31.822	1.00 52.07	BS2
ATOM	32699	N	ALA	B	29	152.614	146.200	-31.930	1.00 47.13	BS2
ATOM	32700	CA	ALA	B	29	151.659	146.255	-33.028	1.00 47.13	BS2
ATOM	32701	CB	ALA	B	29	151.125	144.866	-33.315	1.00 61.08	BS2
ATOM	32702	C	ALA	B	29	150.498	147.205	-32.778	1.00 47.13	BS2
ATOM	32703	O	ALA	B	29	150.036	147.906	-33.689	1.00 47.13	BS2
ATOM	32704	N	ARG	B	30	150.020	147.230	-31.542	1.00 77.60	BS2
ATOM	32705	CA	ARG	B	30	148.898	148.090	-31.227	1.00 77.60	BS2
ATOM	32706	CB	ARG	B	30	148.490	147.921	-29.756	1.00100.92	BS2
ATOM	32707	CG	ARG	B	30	149.424	148.529	-28.739	1.00100.92	BS2
ATOM	32708	CD	ARG	B	30	149.181	147.943	-27.344	1.00100.92	BS2
ATOM	32709	NE	ARG	B	30	149.637	146.556	-27.260	1.00100.92	BS2
ATOM	32710	CZ	ARG	B	30	150.113	145.986	-26.155	1.00100.92	BS2
ATOM	32711	NH1	ARG	B	30	150.194	146.684	-25.028	1.00100.92	BS2
ATOM	32712	NH2	ARG	B	30	150.532	144.724	-26.183	1.00100.92	BS2
ATOM	32713	C	ARG	B	30	149.224	149.541	-31.541	1.00 77.60	BS2
ATOM	32714	O	ARG	B	30	148.430	150.239	-32.168	1.00 77.60	BS2
ATOM	32715	N	TYR	B	31	150.412	149.984	-31.151	1.00 82.62	BS2
ATOM	32716	CA	TYR	B	31	150.795	151.365	-31.379	1.00 82.62	BS2



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ATOM	32717	CB	TYR	B	31	151.793	151.796	-30.318	1.00	71.58	BS2
ATOM	32718	CG	TYR	B	31	151.278	151.574	-28.930	1.00	71.58	BS2
ATOM	32719	CD1	TYR	B	31	152.029	150.871	-28.000	1.00	71.58	BS2
ATOM	32720	CE1	TYR	B	31	151.542	150.609	-26.741	1.00	71.58	BS2
ATOM	32721	CD2	TYR	B	31	150.020	152.021	-28.561	1.00	71.58	BS2
ATOM	32722	CE2	TYR	B	31	149.518	151.765	-27.305	1.00	71.58	BS2
ATOM	32723	CZ	TYR	B	31	150.285	151.053	-26.398	1.00	71.58	BS2
ATOM	32724	OH	TYR	B	31	149.783	150.752	-25.153	1.00	71.58	BS2
ATOM	32725	C	TYR	B	31	151.345	151.702	-32.754	1.00	82.62	BS2
ATOM	32726	O	TYR	B	31	151.844	152.807	-32.962	1.00	82.62	BS2
ATOM	32727	N	ILE	B	32	151.265	150.777	-33.702	1.00	91.14	BS2
ATOM	32728	CA	ILE	B	32	151.767	151.094	-35.033	1.00	91.14	BS2
ATOM	32729	CB	ILE	B	32	152.519	149.920	-35.675	1.00	56.74	BS2
ATOM	32730	CG2	ILE	B	32	153.093	150.361	-37.009	1.00	56.74	BS2
ATOM	32731	CG1	ILE	B	32	153.665	149.460	-34.771	1.00	56.74	BS2
ATOM	32732	CD1	ILE	B	32	154.477	148.317	-35.346	1.00	56.74	BS2
ATOM	32733	C	ILE	B	32	150.625	151.484	-35.953	1.00	91.14	BS2
ATOM	32734	O	ILE	B	32	149.518	150.954	-35.839	1.00	91.14	BS2
ATOM	32735	N	TYR	B	33	150.897	152.418	-36.859	1.00	77.51	BS2
ATOM	32736	CA	TYR	B	33	149.882	152.872	-37.799	1.00	77.51	BS2
ATOM	32737	CB	TYR	B	33	149.826	154.404	-37.841	1.00	115.82	BS2
ATOM	32738	CG	TYR	B	33	148.848	154.961	-38.857	1.00	115.82	BS2
ATOM	32739	CD1	TYR	B	33	147.730	154.227	-39.258	1.00	115.82	BS2
ATOM	32740	CE1	TYR	B	33	146.836	154.729	-40.190	1.00	115.82	BS2
ATOM	32741	CD2	TYR	B	33	149.038	156.222	-39.417	1.00	115.82	BS2
ATOM	32742	CE2	TYR	B	33	148.145	156.737	-40.350	1.00	115.82	BS2
ATOM	32743	CZ	TYR	B	33	147.049	155.983	-40.733	1.00	115.82	BS2
ATOM	32744	OH	TYR	B	33	146.168	156.475	-41.666	1.00	115.82	BS2
ATOM	32745	C	TYR	B	33	150.124	152.324	-39.193	1.00	77.51	BS2
ATOM	32746	O	TYR	B	33	149.191	151.874	-39.860	1.00	77.51	BS2
ATOM	32747	N	ALA	B	34	151.371	152.367	-39.643	1.00	92.20	BS2
ATOM	32748	CA	ALA	B	34	151.679	151.845	-40.964	1.00	92.20	BS2
ATOM	32749	CB	ALA	B	34	151.014	152.693	-42.033	1.00	43.48	BS2
ATOM	32750	C	ALA	B	34	153.170	151.744	-41.229	1.00	92.20	BS2
ATOM	32751	O	ALA	B	34	153.993	152.006	-40.355	1.00	92.20	BS2
ATOM	32752	N	GLU	B	35	153.505	151.356	-42.452	1.00	98.10	BS2
ATOM	32753	CA	GLU	B	35	154.889	151.191	-42.848	1.00	98.10	BS2
ATOM	32754	CB	GLU	B	35	155.187	149.701	-43.020	1.00	131.42	BS2
ATOM	32755	CG	GLU	B	35	156.654	149.348	-43.151	1.00	131.42	BS2
ATOM	32756	CD	GLU	B	35	156.874	147.855	-43.309	1.00	131.42	BS2
ATOM	32757	OE1	GLU	B	35	157.011	147.381	-44.456	1.00	131.42	BS2
ATOM	32758	OE2	GLU	B	35	156.895	147.152	-42.278	1.00	131.42	BS2
ATOM	32759	C	GLU	B	35	155.098	151.915	-44.165	1.00	98.10	BS2
ATOM	32760	O	GLU	B	35	154.635	151.453	-45.205	1.00	98.10	BS2
ATOM	32761	N	ARG	B	36	155.779	153.056	-44.123	1.00	107.53	BS2
ATOM	32762	CA	ARG	B	36	156.042	153.815	-45.340	1.00	107.53	BS2
ATOM	32763	CB	ARG	B	36	155.663	155.284	-45.154	1.00	148.44	BS2
ATOM	32764	CG	ARG	B	36	154.167	155.524	-45.177	1.00	148.44	BS2
ATOM	32765	CD	ARG	B	36	153.847	156.990	-45.000	1.00	148.44	BS2
ATOM	32766	NE	ARG	B	36	152.410	157.218	-44.919	1.00	148.44	BS2
ATOM	32767	CZ	ARG	B	36	151.859	158.360	-44.522	1.00	148.44	BS2
ATOM	32768	NH1	ARG	B	36	152.631	159.380	-44.167	1.00	148.44	BS2
ATOM	32769	NH2	ARG	B	36	150.537	158.482	-44.478	1.00	148.44	BS2
ATOM	32770	C	ARG	B	36	157.501	153.697	-45.742	1.00	107.53	BS2
ATOM	32771	O	ARG	B	36	158.400	154.056	-44.979	1.00	107.53	BS2
ATOM	32772	N	ASN	B	37	157.721	153.186	-46.951	1.00	169.86	BS2
ATOM	32773	CA	ASN	B	37	159.060	152.987	-47.488	1.00	169.86	BS2
ATOM	32774	CB	ASN	B	37	159.797	154.320	-47.606	1.00	163.30	BS2
ATOM	32775	CG	ASN	B	37	159.185	155.223	-48.654	1.00	163.30	BS2
ATOM	32776	OD1	ASN	B	37	159.104	154.861	-49.830	1.00	163.30	BS2
ATOM	32777	ND2	ASN	B	37	158.746	156.404	-48.236	1.00	163.30	BS2
ATOM	32778	C	ASN	B	37	159.841	152.034	-46.604	1.00	169.86	BS2
ATOM	32779	O	ASN	B	37	161.061	152.148	-46.472	1.00	169.86	BS2
ATOM	32780	N	GLY	B	38	159.118	151.095	-45.999	1.00	98.44	BS2
ATOM	32781	CA	GLY	B	38	159.739	150.109	-45.134	1.00	98.44	BS2
ATOM	32782	C	GLY	B	38	160.024	150.604	-43.730	1.00	98.44	BS2
ATOM	32783	O	GLY	B	38	160.970	150.154	-43.079	1.00	98.44	BS2
ATOM	32784	N	ILE	B	39	159.209	151.537	-43.255	1.00	89.82	BS2
ATOM	32785	CA	ILE	B	39	159.402	152.066	-41.918	1.00	89.82	BS2
ATOM	32786	CB	ILE	B	39	160.062	153.442	-41.962	1.00	102.01	BS2
ATOM	32787	CG2	ILE	B	39	160.526	153.827	-40.576	1.00	102.01	BS2
ATOM	32788	CG1	ILE	B	39	161.264	153.405	-42.903	1.00	102.01	BS2
ATOM	32789	CD1	ILE	B	39	161.916	154.749	-43.118	1.00	102.01	BS2
ATOM	32790	C	ILE	B	39	158.074	152.172	-41.185	1.00	89.82	BS2
ATOM	32791	O	ILE	B	39	157.120	152.780	-41.680	1.00	89.82	BS2
ATOM	32792	N	HIS	B	40	158.017	151.563	-40.004	1.00	99.65	BS2
ATOM	32793	CA	HIS	B	40	156.812	151.585	-39.191	1.00	99.65	BS2



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ATOM	32794	CB	HIS	B	40	156.989	150.712	-37.949	1.00	91.15	BS2
ATOM	32795	CG	HIS	B	40	156.808	149.249	-38.202	1.00	91.15	BS2
ATOM	32796	CD2	HIS	B	40	155.727	148.543	-38.610	1.00	91.15	BS2
ATOM	32797	ND1	HIS	B	40	157.816	148.328	-38.001	1.00	91.15	BS2
ATOM	32798	CE1	HIS	B	40	157.362	147.118	-38.273	1.00	91.15	BS2
ATOM	32799	NE2	HIS	B	40	156.097	147.221	-38.645	1.00	91.15	BS2
ATOM	32800	C	HIS	B	40	156.494	153.009	-38.762	1.00	99.65	BS2
ATOM	32801	O	HIS	B	40	157.370	153.738	-38.298	1.00	99.65	BS2
ATOM	32802	N	ILE	B	41	155.234	153.397	-38.912	1.00	81.94	BS2
ATOM	32803	CA	ILE	B	41	154.804	154.733	-38.541	1.00	81.94	BS2
ATOM	32804	CB	ILE	B	41	154.146	155.444	-39.720	1.00	116.93	BS2
ATOM	32805	CG2	ILE	B	41	153.493	156.737	-39.245	1.00	116.93	BS2
ATOM	32806	CG1	ILE	B	41	155.198	155.690	-40.804	1.00	116.93	BS2
ATOM	32807	CD1	ILE	B	41	154.715	156.523	-41.961	1.00	116.93	BS2
ATOM	32808	C	ILE	B	41	153.833	154.728	-37.378	1.00	81.94	BS2
ATOM	32809	O	ILE	B	41	152.656	154.396	-37.542	1.00	81.94	BS2
ATOM	32810	N	ILE	B	42	154.343	155.108	-36.208	1.00	71.08	BS2
ATOM	32811	CA	ILE	B	42	153.548	155.157	-34.987	1.00	71.08	BS2
ATOM	32812	CB	ILE	B	42	154.318	155.812	-33.829	1.00	54.31	BS2
ATOM	32813	CG2	ILE	B	42	153.479	155.754	-32.554	1.00	54.31	BS2
ATOM	32814	CG1	ILE	B	42	155.658	155.115	-33.611	1.00	54.31	BS2
ATOM	32815	CD1	ILE	B	42	156.454	155.700	-32.434	1.00	54.31	BS2
ATOM	32816	C	ILE	B	42	152.275	155.969	-35.177	1.00	71.08	BS2
ATOM	32817	O	ILE	B	42	152.301	157.049	-35.781	1.00	71.08	BS2
ATOM	32818	N	ASP	B	43	151.170	155.450	-34.643	1.00	88.89	BS2
ATOM	32819	CA	ASP	B	43	149.870	156.122	-34.721	1.00	88.89	BS2
ATOM	32820	CB	ASP	B	43	148.729	155.121	-34.567	1.00	74.62	BS2
ATOM	32821	CG	ASP	B	43	147.381	155.793	-34.576	1.00	74.62	BS2
ATOM	32822	OD1	ASP	B	43	147.343	157.016	-34.301	1.00	74.62	BS2
ATOM	32823	OD2	ASP	B	43	146.373	155.102	-34.849	1.00	74.62	BS2
ATOM	32824	C	ASP	B	43	149.762	157.160	-33.614	1.00	88.89	BS2
ATOM	32825	O	ASP	B	43	149.473	156.836	-32.461	1.00	88.89	BS2
ATOM	32826	N	LEU	B	44	149.966	158.414	-33.980	1.00	59.91	BS2
ATOM	32827	CA	LEU	B	44	149.930	159.493	-33.011	1.00	59.91	BS2
ATOM	32828	CB	LEU	B	44	150.379	160.783	-33.693	1.00	61.38	BS2
ATOM	32829	CG	LEU	B	44	151.776	160.695	-34.311	1.00	61.38	BS2
ATOM	32830	CD1	LEU	B	44	151.988	161.852	-35.245	1.00	61.38	BS2
ATOM	32831	CD2	LEU	B	44	152.825	160.694	-33.225	1.00	61.38	BS2
ATOM	32832	C	LEU	B	44	148.567	159.671	-32.339	1.00	59.91	BS2
ATOM	32833	O	LEU	B	44	148.478	160.141	-31.198	1.00	59.91	BS2
ATOM	32834	N	GLN	B	45	147.506	159.297	-33.039	1.00	84.63	BS2
ATOM	32835	CA	GLN	B	45	146.177	159.412	-32.464	1.00	84.63	BS2
ATOM	32836	CB	GLN	B	45	145.160	158.767	-33.404	1.00	198.94	BS2
ATOM	32837	CG	GLN	B	45	145.104	159.451	-34.767	1.00	198.94	BS2
ATOM	32838	CD	GLN	B	45	144.865	158.484	-35.916	1.00	198.94	BS2
ATOM	32839	OE1	GLN	B	45	143.857	157.776	-35.950	1.00	198.94	BS2
ATOM	32840	NE2	GLN	B	45	145.797	158.453	-36.867	1.00	198.94	BS2
ATOM	32841	C	GLN	B	45	146.211	158.705	-31.106	1.00	84.63	BS2
ATOM	32842	O	GLN	B	45	145.666	159.201	-30.116	1.00	84.63	BS2
ATOM	32843	N	LYS	B	46	146.881	157.555	-31.068	1.00	73.99	BS2
ATOM	32844	CA	LYS	B	46	147.021	156.773	-29.844	1.00	73.99	BS2
ATOM	32845	CB	LYS	B	46	147.427	155.339	-30.176	1.00	105.87	BS2
ATOM	32846	CG	LYS	B	46	146.376	154.594	-30.967	1.00	105.87	BS2
ATOM	32847	CD	LYS	B	46	146.955	153.380	-31.668	1.00	105.87	BS2
ATOM	32848	CE	LYS	B	46	145.957	152.783	-32.662	1.00	105.87	BS2
ATOM	32849	NZ	LYS	B	46	146.520	151.641	-33.458	1.00	105.87	BS2
ATOM	32850	C	LYS	B	46	148.069	157.424	-28.954	1.00	73.99	BS2
ATOM	32851	O	LYS	B	46	147.836	157.600	-27.759	1.00	73.99	BS2
ATOM	32852	N	THR	B	47	149.217	157.780	-29.532	1.00	58.40	BS2
ATOM	32853	CA	THR	B	47	150.288	158.443	-28.780	1.00	58.40	BS2
ATOM	32854	CB	THR	B	47	151.283	159.146	-29.713	1.00	74.39	BS2
ATOM	32855	OG1	THR	B	47	151.923	158.177	-30.549	1.00	74.39	BS2
ATOM	32856	CG2	THR	B	47	152.331	159.884	-28.905	1.00	74.39	BS2
ATOM	32857	C	THR	B	47	149.669	159.510	-27.882	1.00	58.40	BS2
ATOM	32858	O	THR	B	47	150.191	159.843	-26.811	1.00	58.40	BS2
ATOM	32859	N	MET	B	48	148.552	160.056	-28.355	1.00	76.54	BS2
ATOM	32860	CA	MET	B	48	147.800	161.062	-27.623	1.00	76.54	BS2
ATOM	32861	CB	MET	B	48	146.692	161.635	-28.510	1.00	105.25	BS2
ATOM	32862	CG	MET	B	48	147.167	162.620	-29.556	1.00	105.25	BS2
ATOM	32863	SD	MET	B	48	147.842	164.093	-28.773	1.00	105.25	BS2
ATOM	32864	CE	MET	B	48	146.334	164.865	-28.162	1.00	105.25	BS2
ATOM	32865	C	MET	B	48	147.171	160.350	-26.443	1.00	76.54	BS2
ATOM	32866	O	MET	B	48	147.556	160.567	-25.288	1.00	76.54	BS2
ATOM	32867	N	GLU	B	49	146.206	159.488	-26.767	1.00	71.30	BS2
ATOM	32868	CA	GLU	B	49	145.487	158.711	-25.776	1.00	71.30	BS2
ATOM	32869	CB	GLU	B	49	144.827	157.486	-26.407	1.00	150.76	BS2
ATOM	32870	CG	GLU	B	49	143.559	157.800	-27.173	1.00	150.76	BS2



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ATOM	32871	CD	GLU	B	49	142.745	156.557	-27.484	1.00150.76	BS2
ATOM	32872	OE1	GLU	B	49	142.407	155.815	-26.538	1.00150.76	BS2
ATOM	32873	OE2	GLU	B	49	142.438	156.326	-28.673	1.00150.76	BS2
ATOM	32874	C	GLU	B	49	146.431	158.268	-24.694	1.00 71.30	BS2
ATOM	32875	O	GLU	B	49	146.101	158.342	-23.518	1.00 71.30	BS2
ATOM	32876	N	GLU	B	50	147.618	157.817	-25.080	1.00 78.43	BS2
ATOM	32877	CA	GLU	B	50	148.576	157.372	-24.078	1.00 78.43	BS2
ATOM	32878	CB	GLU	B	50	149.757	156.645	-24.721	1.00 94.32	BS2
ATOM	32879	CG	GLU	B	50	149.534	155.147	-24.890	1.00 94.32	BS2
ATOM	32880	CD	GLU	B	50	148.937	154.493	-23.649	1.00 94.32	BS2
ATOM	32881	OE1	GLU	B	50	149.416	154.782	-22.527	1.00 94.32	BS2
ATOM	32882	OE2	GLU	B	50	147.992	153.684	-23.804	1.00 94.32	BS2
ATOM	32883	C	GLU	B	50	149.086	158.520	-23.237	1.00 78.43	BS2
ATOM	32884	O	GLU	B	50	148.904	158.525	-22.017	1.00 78.43	BS2
ATOM	32885	N	LEU	B	51	149.721	159.489	-23.889	1.00 65.90	BS2
ATOM	32886	CA	LEU	B	51	150.259	160.637	-23.182	1.00 65.90	BS2
ATOM	32887	CB	LEU	B	51	150.464	161.809	-24.135	1.00 55.46	BS2
ATOM	32888	CG	LEU	B	51	151.809	161.796	-24.863	1.00 55.46	BS2
ATOM	32889	CD1	LEU	B	51	151.969	163.103	-25.608	1.00 55.46	BS2
ATOM	32890	CD2	LEU	B	51	152.961	161.606	-23.867	1.00 55.46	BS2
ATOM	32891	C	LEU	B	51	149.321	161.048	-22.074	1.00 65.90	BS2
ATOM	32892	O	LEU	B	51	149.652	160.943	-20.888	1.00 65.90	BS2
ATOM	32893	N	GLU	B	52	148.145	161.512	-22.478	1.00113.28	BS2
ATOM	32894	CA	GLU	B	52	147.112	161.943	-21.549	1.00113.28	BS2
ATOM	32895	CB	GLU	B	52	145.743	161.740	-22.198	1.00159.29	BS2
ATOM	32896	CG	GLU	B	52	144.559	162.063	-21.317	1.00159.29	BS2
ATOM	32897	CD	GLU	B	52	143.247	161.711	-21.984	1.00159.29	BS2
ATOM	32898	OE1	GLU	B	52	142.183	161.973	-21.384	1.00159.29	BS2
ATOM	32899	OE2	GLU	B	52	143.280	161.168	-23.111	1.00159.29	BS2
ATOM	32900	C	GLU	B	52	147.216	161.111	-20.280	1.00113.28	BS2
ATOM	32901	O	GLU	B	52	147.748	161.551	-19.256	1.00113.28	BS2
ATOM	32902	N	ARG	B	53	146.714	159.890	-20.376	1.00 81.80	BS2
ATOM	32903	CA	ARG	B	53	146.733	158.961	-19.269	1.00 81.80	BS2
ATOM	32904	CB	ARG	B	53	146.523	157.549	-19.808	1.00 74.85	BS2
ATOM	32905	CG	ARG	B	53	146.575	156.481	-18.761	1.00 74.85	BS2
ATOM	32906	CD	ARG	B	53	146.190	155.129	-19.332	1.00 74.85	BS2
ATOM	32907	NE	ARG	B	53	146.446	154.077	-18.357	1.00 74.85	BS2
ATOM	32908	CZ	ARG	B	53	147.658	153.767	-17.911	1.00 74.85	BS2
ATOM	32909	NH1	ARG	B	53	148.715	154.421	-18.365	1.00 74.85	BS2
ATOM	32910	NH2	ARG	B	53	147.808	152.828	-16.991	1.00 74.85	BS2
ATOM	32911	C	ARG	B	53	148.058	159.052	-18.521	1.00 81.80	BS2
ATOM	32912	O	ARG	B	53	148.107	159.381	-17.334	1.00 81.80	BS2
ATOM	32913	N	THR	B	54	149.135	158.779	-19.240	1.00 77.60	BS2
ATOM	32914	CA	THR	B	54	150.469	158.800	-18.668	1.00 77.60	BS2
ATOM	32915	CB	THR	B	54	151.528	158.568	-19.767	1.00 57.67	BS2
ATOM	32916	OG1	THR	B	54	151.297	157.296	-20.393	1.00 57.67	BS2
ATOM	32917	CG2	THR	B	54	152.920	158.574	-19.165	1.00 57.67	BS2
ATOM	32918	C	THR	B	54	150.789	160.084	-17.902	1.00 77.60	BS2
ATOM	32919	O	THR	B	54	151.052	160.042	-16.700	1.00 77.60	BS2
ATOM	32920	N	PHE	B	55	150.776	161.223	-18.584	1.00 81.71	BS2
ATOM	32921	CA	PHE	B	55	151.079	162.479	-17.907	1.00 81.71	BS2
ATOM	32922	CB	PHE	B	55	150.871	163.677	-18.842	1.00 77.78	BS2
ATOM	32923	CG	PHE	B	55	152.093	164.044	-19.641	1.00 77.78	BS2
ATOM	32924	CD1	PHE	B	55	152.358	163.440	-20.862	1.00 77.78	BS2
ATOM	32925	CD2	PHE	B	55	152.991	164.985	-19.157	1.00 77.78	BS2
ATOM	32926	CE1	PHE	B	55	153.502	163.770	-21.585	1.00 77.78	BS2
ATOM	32927	CE2	PHE	B	55	154.131	165.317	-19.871	1.00 77.78	BS2
ATOM	32928	CZ	PHE	B	55	154.388	164.711	-21.085	1.00 77.78	BS2
ATOM	32929	C	PHE	B	55	150.211	162.641	-16.668	1.00 81.71	BS2
ATOM	32930	O	PHE	B	55	150.673	163.131	-15.633	1.00 81.71	BS2
ATOM	32931	N	ARG	B	56	148.955	162.220	-16.786	1.00 79.82	BS2
ATOM	32932	CA	ARG	B	56	148.004	162.311	-15.684	1.00 79.82	BS2
ATOM	32933	CB	ARG	B	56	146.725	161.567	-16.041	1.00140.13	BS2
ATOM	32934	CG	ARG	B	56	145.558	161.859	-15.130	1.00140.13	BS2
ATOM	32935	CD	ARG	B	56	144.467	160.846	-15.373	1.00140.13	BS2
ATOM	32936	NE	ARG	B	56	144.360	160.517	-16.791	1.00140.13	BS2
ATOM	32937	CZ	ARG	B	56	143.675	159.484	-17.273	1.00140.13	BS2
ATOM	32938	NH1	ARG	B	56	143.023	158.667	-16.455	1.00140.13	BS2
ATOM	32939	NH2	ARG	B	56	143.658	159.256	-18.579	1.00140.13	BS2
ATOM	32940	C	ARG	B	56	148.625	161.685	-14.446	1.00 79.82	BS2
ATOM	32941	O	ARG	B	56	148.659	162.287	-13.372	1.00 79.82	BS2
ATOM	32942	N	PHE	B	57	149.112	160.460	-14.610	1.00 68.02	BS2
ATOM	32943	CA	PHE	B	57	149.762	159.733	-13.526	1.00 68.02	BS2
ATOM	32944	CB	PHE	B	57	150.242	158.356	-14.020	1.00 49.52	BS2
ATOM	32945	CG	PHE	B	57	151.288	157.722	-13.141	1.00 49.52	BS2
ATOM	32946	CD1	PHE	B	57	150.933	157.040	-11.988	1.00 49.52	BS2
ATOM	32947	CD2	PHE	B	57	152.628	157.822	-13.463	1.00 49.52	BS2



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ATOM	32948	CE1	PHE	B	57	151.900	156.466	-11.168	1.00	49.52	BS2
ATOM	32949	CE2	PHE	B	57	153.596	157.253	-12.651	1.00	49.52	BS2
ATOM	32950	CZ	PHE	B	57	153.228	156.574	-11.501	1.00	49.52	BS2
ATOM	32951	C	PHE	B	57	150.952	160.543	-13.030	1.00	68.02	BS2
ATOM	32952	O	PHE	B	57	151.388	160.378	-11.898	1.00	68.02	BS2
ATOM	32953	N	ILE	B	58	151.479	161.420	-13.877	1.00	67.23	BS2
ATOM	32954	CA	ILE	B	58	152.619	162.214	-13.461	1.00	67.23	BS2
ATOM	32955	CB	ILE	B	58	153.421	162.709	-14.664	1.00	57.80	BS2
ATOM	32956	CG2	ILE	B	58	154.706	163.386	-14.189	1.00	57.80	BS2
ATOM	32957	CG1	ILE	B	58	153.780	161.513	-15.543	1.00	57.80	BS2
ATOM	32958	CD1	ILE	B	58	154.763	161.827	-16.617	1.00	57.80	BS2
ATOM	32959	C	ILE	B	58	152.244	163.378	-12.543	1.00	67.23	BS2
ATOM	32960	O	ILE	B	58	152.885	163.552	-11.509	1.00	67.23	BS2
ATOM	32961	N	GLU	B	59	151.228	164.175	-12.894	1.00	75.59	BS2
ATOM	32962	CA	GLU	B	59	150.813	165.275	-12.006	1.00	75.59	BS2
ATOM	32963	CB	GLU	B	59	149.446	165.832	-12.375	1.00	116.36	BS2
ATOM	32964	CG	GLU	B	59	149.298	166.401	-13.744	1.00	116.36	BS2
ATOM	32965	CD	GLU	B	59	147.908	166.964	-13.939	1.00	116.36	BS2
ATOM	32966	OE1	GLU	B	59	147.525	167.859	-13.152	1.00	116.36	BS2
ATOM	32967	OE2	GLU	B	59	147.199	166.511	-14.866	1.00	116.36	BS2
ATOM	32968	C	GLU	B	59	150.643	164.575	-10.681	1.00	75.59	BS2
ATOM	32969	O	GLU	B	59	151.247	164.929	-9.670	1.00	75.59	BS2
ATOM	32970	N	ASP	B	60	149.774	163.572	-10.732	1.00	65.29	BS2
ATOM	32971	CA	ASP	B	60	149.462	162.719	-9.612	1.00	65.29	BS2
ATOM	32972	CB	ASP	B	60	149.040	161.358	-10.172	1.00	187.26	BS2
ATOM	32973	CG	ASP	B	60	148.730	160.346	-9.101	1.00	187.26	BS2
ATOM	32974	OD1	ASP	B	60	149.650	159.973	-8.344	1.00	187.26	BS2
ATOM	32975	OD2	ASP	B	60	147.562	159.917	-9.022	1.00	187.26	BS2
ATOM	32976	C	ASP	B	60	150.725	162.603	-8.749	1.00	65.29	BS2
ATOM	32977	O	ASP	B	60	150.896	163.334	-7.769	1.00	65.29	BS2
ATOM	32978	N	LEU	B	61	151.623	161.710	-9.150	1.00	59.39	BS2
ATOM	32979	CA	LEU	B	61	152.868	161.462	-8.431	1.00	59.39	BS2
ATOM	32980	CB	LEU	B	61	153.777	160.552	-9.277	1.00	105.77	BS2
ATOM	32981	CG	LEU	B	61	154.913	159.729	-8.648	1.00	105.77	BS2
ATOM	32982	CD1	LEU	B	61	155.614	158.940	-9.733	1.00	105.77	BS2
ATOM	32983	CD2	LEU	B	61	155.910	160.618	-7.955	1.00	105.77	BS2
ATOM	32984	C	LEU	B	61	153.594	162.766	-8.116	1.00	59.39	BS2
ATOM	32985	O	LEU	B	61	154.287	162.880	-7.095	1.00	59.39	BS2
ATOM	32986	N	ALA	B	62	153.422	163.749	-8.995	1.00	78.87	BS2
ATOM	32987	CA	ALA	B	62	154.086	165.039	-8.851	1.00	78.87	BS2
ATOM	32988	CB	ALA	B	62	153.992	165.822	-10.150	1.00	119.96	BS2
ATOM	32989	C	ALA	B	62	153.529	165.862	-7.717	1.00	78.87	BS2
ATOM	32990	O	ALA	B	62	154.205	166.068	-6.707	1.00	78.87	BS2
ATOM	32991	N	MET	B	63	152.298	166.334	-7.892	1.00	89.92	BS2
ATOM	32992	CA	MET	B	63	151.639	167.155	-6.887	1.00	89.92	BS2
ATOM	32993	CB	MET	B	63	150.300	167.673	-7.406	1.00	167.24	BS2
ATOM	32994	CG	MET	B	63	149.284	166.584	-7.676	1.00	167.24	BS2
ATOM	32995	SD	MET	B	63	147.663	167.278	-7.998	1.00	167.24	BS2
ATOM	32996	CE	MET	B	63	147.071	167.545	-6.316	1.00	167.24	BS2
ATOM	32997	C	MET	B	63	151.406	166.328	-5.648	1.00	89.92	BS2
ATOM	32998	O	MET	B	63	150.368	166.429	-5.007	1.00	89.92	BS2
ATOM	32999	N	ARG	B	64	152.388	165.504	-5.320	1.00	60.82	BS2
ATOM	33000	CA	ARG	B	64	152.312	164.636	-4.164	1.00	60.82	BS2
ATOM	33001	CB	ARG	B	64	151.867	163.247	-4.602	1.00	103.95	BS2
ATOM	33002	CG	ARG	B	64	151.383	162.356	-3.485	1.00	103.95	BS2
ATOM	33003	CD	ARG	B	64	150.599	161.221	-4.092	1.00	103.95	BS2
ATOM	33004	NE	ARG	B	64	149.715	161.738	-5.135	1.00	103.95	BS2
ATOM	33005	CZ	ARG	B	64	148.923	160.986	-5.890	1.00	103.95	BS2
ATOM	33006	NH1	ARG	B	64	148.896	159.669	-5.723	1.00	103.95	BS2
ATOM	33007	NH2	ARG	B	64	148.164	161.554	-6.819	1.00	103.95	BS2
ATOM	33008	C	ARG	B	64	153.696	164.576	-3.542	1.00	60.82	BS2
ATOM	33009	O	ARG	B	64	153.906	163.908	-2.520	1.00	60.82	BS2
ATOM	33010	N	GLY	B	65	154.631	165.294	-4.165	1.00	95.26	BS2
ATOM	33011	CA	GLY	B	65	156.000	165.327	-3.686	1.00	95.26	BS2
ATOM	33012	C	GLY	B	65	156.710	164.020	-3.976	1.00	95.26	BS2
ATOM	33013	O	GLY	B	65	157.598	163.597	-3.229	1.00	95.26	BS2
ATOM	33014	N	GLY	B	66	156.309	163.375	-5.066	1.00	71.68	BS2
ATOM	33015	CA	GLY	B	66	156.914	162.111	-5.432	1.00	71.68	BS2
ATOM	33016	C	GLY	B	66	158.225	162.302	-6.163	1.00	71.68	BS2
ATOM	33017	O	GLY	B	66	158.558	163.410	-6.575	1.00	71.68	BS2
ATOM	33018	N	THR	B	67	158.968	161.214	-6.327	1.00	80.05	BS2
ATOM	33019	CA	THR	B	67	160.253	161.246	-7.006	1.00	80.05	BS2
ATOM	33020	CB	THR	B	67	161.356	160.674	-6.110	1.00	83.51	BS2
ATOM	33021	OG1	THR	B	67	161.440	161.437	-4.904	1.00	83.51	BS2
ATOM	33022	CG2	THR	B	67	162.681	160.722	-6.813	1.00	83.51	BS2
ATOM	33023	C	THR	B	67	160.219	160.419	-8.283	1.00	80.05	BS2
ATOM	33024	O	THR	B	67	159.657	159.326	-8.313	1.00	80.05	BS2



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ATOM	33025	N	ILE	B	68	160.820	160.950	-9.339	1.00	67.00	BS2
ATOM	33026	CA	ILE	B	68	160.888	160.250	-10.612	1.00	67.00	BS2
ATOM	33027	CB	ILE	B	68	160.133	160.988	-11.713	1.00	43.64	BS2
ATOM	33028	CG2	ILE	B	68	160.783	160.709	-13.072	1.00	43.64	BS2
ATOM	33029	CG1	ILE	B	68	158.670	160.559	-11.709	1.00	43.64	BS2
ATOM	33030	CD1	ILE	B	68	157.858	161.231	-12.800	1.00	43.64	BS2
ATOM	33031	C	ILE	B	68	162.331	160.158	-11.040	1.00	67.00	BS2
ATOM	33032	O	ILE	B	68	162.978	161.179	-11.234	1.00	67.00	BS2
ATOM	33033	N	LEU	B	69	162.836	158.939	-11.187	1.00	54.93	BS2
ATOM	33034	CA	LEU	B	69	164.211	158.746	-11.615	1.00	54.93	BS2
ATOM	33035	CB	LEU	B	69	164.776	157.455	-11.033	1.00	57.36	BS2
ATOM	33036	CG	LEU	B	69	166.301	157.330	-11.044	1.00	57.36	BS2
ATOM	33037	CD1	LEU	B	69	166.716	155.914	-10.637	1.00	57.36	BS2
ATOM	33038	CD2	LEU	B	69	166.824	157.653	-12.433	1.00	57.36	BS2
ATOM	33039	C	LEU	B	69	164.225	158.667	-13.136	1.00	54.93	BS2
ATOM	33040	O	LEU	B	69	163.666	157.737	-13.721	1.00	54.93	BS2
ATOM	33041	N	PHE	B	70	164.854	159.650	-13.773	1.00	83.49	BS2
ATOM	33042	CA	PHE	B	70	164.949	159.682	-15.226	1.00	83.49	BS2
ATOM	33043	CB	PHE	B	70	165.121	161.107	-15.717	1.00	55.90	BS2
ATOM	33044	CG	PHE	B	70	163.865	161.907	-15.711	1.00	55.90	BS2
ATOM	33045	CD1	PHE	B	70	163.400	162.481	-14.542	1.00	55.90	BS2
ATOM	33046	CD2	PHE	B	70	163.182	162.147	-16.900	1.00	55.90	BS2
ATOM	33047	CE1	PHE	B	70	162.268	163.299	-14.559	1.00	55.90	BS2
ATOM	33048	CE2	PHE	B	70	162.058	162.953	-16.933	1.00	55.90	BS2
ATOM	33049	CZ	PHE	B	70	161.596	163.537	-15.761	1.00	55.90	BS2
ATOM	33050	C	PHE	B	70	166.142	158.865	-15.707	1.00	83.49	BS2
ATOM	33051	O	PHE	B	70	167.266	159.065	-15.243	1.00	83.49	BS2
ATOM	33052	N	VAL	B	71	165.903	157.959	-16.651	1.00	70.53	BS2
ATOM	33053	CA	VAL	B	71	166.982	157.127	-17.162	1.00	70.53	BS2
ATOM	33054	CB	VAL	B	71	166.720	155.638	-16.887	1.00	63.99	BS2
ATOM	33055	CG1	VAL	B	71	167.976	154.855	-17.156	1.00	63.99	BS2
ATOM	33056	CG2	VAL	B	71	166.285	155.429	-15.446	1.00	63.99	BS2
ATOM	33057	C	VAL	B	71	167.214	157.305	-18.655	1.00	70.53	BS2
ATOM	33058	O	VAL	B	71	166.326	157.040	-19.468	1.00	70.53	BS2
ATOM	33059	N	GLY	B	72	168.421	157.751	-18.998	1.00	64.32	BS2
ATOM	33060	CA	GLY	B	72	168.791	157.964	-20.389	1.00	64.32	BS2
ATOM	33061	C	GLY	B	72	170.267	157.671	-20.636	1.00	64.32	BS2
ATOM	33062	O	GLY	B	72	171.108	158.579	-20.580	1.00	64.32	BS2
ATOM	33063	N	THR	B	73	170.581	156.397	-20.885	1.00	61.48	BS2
ATOM	33064	CA	THR	B	73	171.950	155.969	-21.156	1.00	61.48	BS2
ATOM	33065	CB	THR	B	73	172.178	154.478	-20.794	1.00	112.49	BS2
ATOM	33066	OG1	THR	B	73	172.098	154.304	-19.376	1.00	112.49	BS2
ATOM	33067	CG2	THR	B	73	173.542	154.015	-21.264	1.00	112.49	BS2
ATOM	33068	C	THR	B	73	172.179	156.151	-22.649	1.00	61.48	BS2
ATOM	33069	O	THR	B	73	173.299	156.427	-23.090	1.00	61.48	BS2
ATOM	33070	N	LYS	B	74	171.102	155.987	-23.415	1.00	64.21	BS2
ATOM	33071	CA	LYS	B	74	171.118	156.152	-24.868	1.00	64.21	BS2
ATOM	33072	CB	LYS	B	74	169.669	156.252	-25.350	1.00	86.33	BS2
ATOM	33073	CG	LYS	B	74	169.438	156.343	-26.843	1.00	86.33	BS2
ATOM	33074	CD	LYS	B	74	168.029	155.837	-27.143	1.00	86.33	BS2
ATOM	33075	CE	LYS	B	74	167.649	155.977	-28.601	1.00	86.33	BS2
ATOM	33076	NZ	LYS	B	74	167.472	157.407	-28.974	1.00	86.33	BS2
ATOM	33077	C	LYS	B	74	171.879	157.447	-25.142	1.00	64.21	BS2
ATOM	33078	O	LYS	B	74	171.941	158.312	-24.271	1.00	64.21	BS2
ATOM	33079	N	LYS	B	75	172.471	157.603	-26.322	1.00	97.31	BS2
ATOM	33080	CA	LYS	B	75	173.210	158.839	-26.576	1.00	97.31	BS2
ATOM	33081	CB	LYS	B	75	174.393	158.602	-27.514	1.00	124.77	BS2
ATOM	33082	CG	LYS	B	75	175.625	159.420	-27.125	1.00	124.77	BS2
ATOM	33083	CD	LYS	B	75	175.255	160.865	-26.782	1.00	124.77	BS2
ATOM	33084	CE	LYS	B	75	176.425	161.653	-26.199	1.00	124.77	BS2
ATOM	33085	NZ	LYS	B	75	177.528	161.872	-27.178	1.00	124.77	BS2
ATOM	33086	C	LYS	B	75	172.324	159.933	-27.144	1.00	97.31	BS2
ATOM	33087	O	LYS	B	75	172.423	161.089	-26.742	1.00	97.31	BS2
ATOM	33088	N	GLN	B	76	171.458	159.571	-28.080	1.00	87.50	BS2
ATOM	33089	CA	GLN	B	76	170.555	160.539	-28.677	1.00	87.50	BS2
ATOM	33090	CB	GLN	B	76	169.586	159.836	-29.624	1.00	158.97	BS2
ATOM	33091	CG	GLN	B	76	170.139	159.621	-31.006	1.00	158.97	BS2
ATOM	33092	CD	GLN	B	76	170.525	160.926	-31.666	1.00	158.97	BS2
ATOM	33093	OE1	GLN	B	76	171.501	161.569	-31.273	1.00	158.97	BS2
ATOM	33094	NE2	GLN	B	76	169.752	161.334	-32.669	1.00	158.97	BS2
ATOM	33095	C	GLN	B	76	169.760	161.317	-27.631	1.00	87.50	BS2
ATOM	33096	O	GLN	B	76	169.168	162.350	-27.941	1.00	87.50	BS2
ATOM	33097	N	ALA	B	77	169.745	160.824	-26.396	1.00	100.86	BS2
ATOM	33098	CA	ALA	B	77	168.998	161.480	-25.323	1.00	100.86	BS2
ATOM	33099	CB	ALA	B	77	167.885	160.564	-24.830	1.00	69.10	BS2
ATOM	33100	C	ALA	B	77	169.888	161.853	-24.155	1.00	100.86	BS2
ATOM	33101	O	ALA	B	77	169.531	162.697	-23.335	1.00	100.86	BS2



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ATOM	33102	N	GLN	B	78	171.050	161.217	-24.091	1.00	60.94	BS2
ATOM	33103	CA	GLN	B	78	171.999	161.427	-23.008	1.00	60.94	BS2
ATOM	33104	CB	GLN	B	78	173.390	160.965	-23.441	1.00	119.14	BS2
ATOM	33105	CG	GLN	B	78	174.320	160.719	-22.273	1.00	119.14	BS2
ATOM	33106	CD	GLN	B	78	175.424	159.745	-22.609	1.00	119.14	BS2
ATOM	33107	OE1	GLN	B	78	176.219	159.980	-23.518	1.00	119.14	BS2
ATOM	33108	NE2	GLN	B	78	175.480	158.640	-21.876	1.00	119.14	BS2
ATOM	33109	C	GLN	B	78	172.069	162.844	-22.438	1.00	60.94	BS2
ATOM	33110	O	GLN	B	78	172.218	163.015	-21.232	1.00	60.94	BS2
ATOM	33111	N	ASP	B	79	171.958	163.867	-23.274	1.00	102.29	BS2
ATOM	33112	CA	ASP	B	79	172.025	165.217	-22.737	1.00	102.29	BS2
ATOM	33113	CB	ASP	B	79	172.668	166.163	-23.743	1.00	108.62	BS2
ATOM	33114	CG	ASP	B	79	174.151	165.922	-23.878	1.00	108.62	BS2
ATOM	33115	OD1	ASP	B	79	174.835	165.874	-22.830	1.00	108.62	BS2
ATOM	33116	OD2	ASP	B	79	174.631	165.779	-25.022	1.00	108.62	BS2
ATOM	33117	C	ASP	B	79	170.675	165.747	-22.296	1.00	102.29	BS2
ATOM	33118	O	ASP	B	79	170.550	166.289	-21.197	1.00	102.29	BS2
ATOM	33119	N	ILE	B	80	169.666	165.585	-23.144	1.00	77.74	BS2
ATOM	33120	CA	ILE	B	80	168.321	166.044	-22.817	1.00	77.74	BS2
ATOM	33121	CB	ILE	B	80	167.305	165.544	-23.859	1.00	70.08	BS2
ATOM	33122	CG2	ILE	B	80	165.898	165.943	-23.457	1.00	70.08	BS2
ATOM	33123	CG1	ILE	B	80	167.646	166.127	-25.228	1.00	70.08	BS2
ATOM	33124	CD1	ILE	B	80	166.685	165.706	-26.317	1.00	70.08	BS2
ATOM	33125	C	ILE	B	80	167.911	165.540	-21.430	1.00	77.74	BS2
ATOM	33126	O	ILE	B	80	167.281	166.263	-20.653	1.00	77.74	BS2
ATOM	33127	N	VAL	B	81	168.280	164.299	-21.125	1.00	77.21	BS2
ATOM	33128	CA	VAL	B	81	167.959	163.698	-19.837	1.00	77.21	BS2
ATOM	33129	CB	VAL	B	81	168.555	162.283	-19.716	1.00	71.67	BS2
ATOM	33130	CG1	VAL	B	81	168.506	161.814	-18.266	1.00	71.67	BS2
ATOM	33131	CG2	VAL	B	81	167.784	161.324	-20.617	1.00	71.67	BS2
ATOM	33132	C	VAL	B	81	168.497	164.554	-18.705	1.00	77.21	BS2
ATOM	33133	O	VAL	B	81	167.807	164.794	-17.720	1.00	77.21	BS2
ATOM	33134	N	ARG	B	82	169.736	165.005	-18.840	1.00	70.03	BS2
ATOM	33135	CA	ARG	B	82	170.327	165.846	-17.817	1.00	70.03	BS2
ATOM	33136	CB	ARG	B	82	171.764	166.207	-18.187	1.00	135.83	BS2
ATOM	33137	CG	ARG	B	82	172.166	167.601	-17.756	1.00	135.83	BS2
ATOM	33138	CD	ARG	B	82	173.645	167.695	-17.511	1.00	135.83	BS2
ATOM	33139	NE	ARG	B	82	174.050	166.807	-16.428	1.00	135.83	BS2
ATOM	33140	CZ	ARG	B	82	175.262	166.798	-15.882	1.00	135.83	BS2
ATOM	33141	NH1	ARG	B	82	176.196	167.634	-16.317	1.00	135.83	BS2
ATOM	33142	NH2	ARG	B	82	175.542	165.953	-14.899	1.00	135.83	BS2
ATOM	33143	C	ARG	B	82	169.484	167.113	-17.684	1.00	70.03	BS2
ATOM	33144	O	ARG	B	82	168.925	167.388	-16.626	1.00	70.03	BS2
ATOM	33145	N	MET	B	83	169.392	167.881	-18.763	1.00	86.24	BS2
ATOM	33146	CA	MET	B	83	168.611	169.108	-18.741	1.00	86.24	BS2
ATOM	33147	CB	MET	B	83	168.274	169.549	-20.165	1.00	120.99	BS2
ATOM	33148	CG	MET	B	83	169.446	170.133	-20.926	1.00	120.99	BS2
ATOM	33149	SD	MET	B	83	170.034	171.660	-20.190	1.00	120.99	BS2
ATOM	33150	CE	MET	B	83	169.015	172.853	-21.025	1.00	120.99	BS2
ATOM	33151	C	MET	B	83	167.322	168.929	-17.950	1.00	86.24	BS2
ATOM	33152	O	MET	B	83	167.243	169.315	-16.784	1.00	86.24	BS2
ATOM	33153	N	GLU	B	84	166.320	168.333	-18.588	1.00	62.59	BS2
ATOM	33154	CA	GLU	B	84	165.030	168.111	-17.955	1.00	62.59	BS2
ATOM	33155	CB	GLU	B	84	164.192	167.183	-18.828	1.00	93.17	BS2
ATOM	33156	CG	GLU	B	84	164.081	167.662	-20.253	1.00	93.17	BS2
ATOM	33157	CD	GLU	B	84	163.815	169.145	-20.326	1.00	93.17	BS2
ATOM	33158	OE1	GLU	B	84	162.709	169.584	-19.949	1.00	93.17	BS2
ATOM	33159	OE2	GLU	B	84	164.727	169.877	-20.749	1.00	93.17	BS2
ATOM	33160	C	GLU	B	84	165.115	167.553	-16.529	1.00	62.59	BS2
ATOM	33161	O	GLU	B	84	164.427	168.043	-15.623	1.00	62.59	BS2
ATOM	33162	N	ALA	B	85	165.955	166.540	-16.323	1.00	63.01	BS2
ATOM	33163	CA	ALA	B	85	166.095	165.938	-14.998	1.00	63.01	BS2
ATOM	33164	CB	ALA	B	85	167.056	164.761	-15.055	1.00	115.53	BS2
ATOM	33165	C	ALA	B	85	166.560	166.949	-13.946	1.00	63.01	BS2
ATOM	33166	O	ALA	B	85	166.179	166.867	-12.781	1.00	63.01	BS2
ATOM	33167	N	GLU	B	86	167.396	167.893	-14.359	1.00	81.34	BS2
ATOM	33168	CA	GLU	B	86	167.888	168.911	-13.446	1.00	81.34	BS2
ATOM	33169	CB	GLU	B	86	169.204	169.505	-13.949	1.00	124.68	BS2
ATOM	33170	CG	GLU	B	86	170.317	168.505	-14.213	1.00	124.68	BS2
ATOM	33171	CD	GLU	B	86	171.553	169.163	-14.815	1.00	124.68	BS2
ATOM	33172	OE1	GLU	B	86	171.439	169.782	-15.898	1.00	124.68	BS2
ATOM	33173	OE2	GLU	B	86	172.639	169.064	-14.205	1.00	124.68	BS2
ATOM	33174	C	GLU	B	86	166.836	170.001	-13.431	1.00	81.34	BS2
ATOM	33175	O	GLU	B	86	166.628	170.661	-12.415	1.00	81.34	BS2
ATOM	33176	N	ARG	B	87	166.176	170.173	-14.574	1.00	77.29	BS2
ATOM	33177	CA	ARG	B	87	165.139	171.190	-14.748	1.00	77.29	BS2
ATOM	33178	CB	ARG	B	87	164.551	171.105	-16.155	1.00	70.57	BS2



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ATOM	33179	CG	ARG	B	87	164.529	172.430	-16.867	1.00	70.57	BS2
ATOM	33180	CD	ARG	B	87	163.139	172.995	-16.959	1.00	70.57	BS2
ATOM	33181	NE	ARG	B	87	162.293	172.154	-17.791	1.00	70.57	BS2
ATOM	33182	CZ	ARG	B	87	161.158	172.561	-18.348	1.00	70.57	BS2
ATOM	33183	NH1	ARG	B	87	160.736	173.806	-18.161	1.00	70.57	BS2
ATOM	33184	NH2	ARG	B	87	160.445	171.722	-19.091	1.00	70.57	BS2
ATOM	33185	C	ARG	B	87	164.035	171.057	-13.708	1.00	77.29	BS2
ATOM	33186	O	ARG	B	87	163.370	172.035	-13.374	1.00	77.29	BS2
ATOM	33187	N	ALA	B	88	163.825	169.837	-13.226	1.00	73.93	BS2
ATOM	33188	CA	ALA	B	88	162.849	169.565	-12.180	1.00	73.93	BS2
ATOM	33189	CB	ALA	B	88	161.787	168.592	-12.668	1.00	24.74	BS2
ATOM	33190	C	ALA	B	88	163.745	168.914	-11.140	1.00	73.93	BS2
ATOM	33191	O	ALA	B	88	164.710	168.246	-11.501	1.00	73.93	BS2
ATOM	33192	N	GLY	B	89	163.454	169.112	-9.862	1.00	81.67	BS2
ATOM	33193	CA	GLY	B	89	164.300	168.545	-8.824	1.00	81.67	BS2
ATOM	33194	C	GLY	B	89	164.635	167.068	-8.936	1.00	81.67	BS2
ATOM	33195	O	GLY	B	89	165.312	166.514	-8.069	1.00	81.67	BS2
ATOM	33196	N	MET	B	90	164.181	166.425	-10.005	1.00	86.53	BS2
ATOM	33197	CA	MET	B	90	164.422	165.002	-10.195	1.00	86.53	BS2
ATOM	33198	CB	MET	B	90	163.504	164.480	-11.301	1.00	88.96	BS2
ATOM	33199	CG	MET	B	90	162.040	164.808	-11.063	1.00	88.96	BS2
ATOM	33200	SD	MET	B	90	161.629	164.781	-9.307	1.00	88.96	BS2
ATOM	33201	CE	MET	B	90	162.273	163.215	-8.798	1.00	88.96	BS2
ATOM	33202	C	MET	B	90	165.867	164.589	-10.486	1.00	86.53	BS2
ATOM	33203	O	MET	B	90	166.695	165.409	-10.899	1.00	86.53	BS2
ATOM	33204	N	PRO	B	91	166.188	163.299	-10.250	1.00	83.38	BS2
ATOM	33205	CD	PRO	B	91	165.331	162.312	-9.562	1.00	60.75	BS2
ATOM	33206	CA	PRO	B	91	167.523	162.749	-10.481	1.00	83.38	BS2
ATOM	33207	CB	PRO	B	91	167.711	161.819	-9.287	1.00	60.75	BS2
ATOM	33208	CG	PRO	B	91	166.328	161.242	-9.079	1.00	60.75	BS2
ATOM	33209	C	PRO	B	91	167.566	162.029	-11.830	1.00	83.38	BS2
ATOM	33210	O	PRO	B	91	166.553	161.955	-12.534	1.00	83.38	BS2
ATOM	33211	N	TYR	B	92	168.730	161.506	-12.196	1.00	60.51	BS2
ATOM	33212	CA	TYR	B	92	168.863	160.819	-13.479	1.00	60.51	BS2
ATOM	33213	CB	TYR	B	92	168.970	161.861	-14.601	1.00	86.76	BS2
ATOM	33214	CG	TYR	B	92	170.132	162.806	-14.395	1.00	86.76	BS2
ATOM	33215	CD1	TYR	B	92	171.444	162.366	-14.533	1.00	86.76	BS2
ATOM	33216	CE1	TYR	B	92	172.519	163.185	-14.234	1.00	86.76	BS2
ATOM	33217	CD2	TYR	B	92	169.926	164.107	-13.960	1.00	86.76	BS2
ATOM	33218	CE2	TYR	B	92	170.998	164.938	-13.655	1.00	86.76	BS2
ATOM	33219	CZ	TYR	B	92	172.290	164.465	-13.790	1.00	86.76	BS2
ATOM	33220	OH	TYR	B	92	173.354	165.255	-13.437	1.00	86.76	BS2
ATOM	33221	C	TYR	B	92	170.075	159.887	-13.555	1.00	60.51	BS2
ATOM	33222	O	TYR	B	92	171.055	160.054	-12.811	1.00	60.51	BS2
ATOM	33223	N	VAL	B	93	169.976	158.886	-14.434	1.00	57.86	BS2
ATOM	33224	CA	VAL	B	93	171.082	157.966	-14.707	1.00	57.86	BS2
ATOM	33225	CB	VAL	B	93	170.710	156.490	-14.592	1.00	74.35	BS2
ATOM	33226	CG1	VAL	B	93	171.893	155.657	-15.023	1.00	74.35	BS2
ATOM	33227	CG2	VAL	B	93	170.364	156.142	-13.157	1.00	74.35	BS2
ATOM	33228	C	VAL	B	93	171.369	158.302	-16.164	1.00	57.86	BS2
ATOM	33229	O	VAL	B	93	170.591	157.975	-17.070	1.00	57.86	BS2
ATOM	33230	N	ASN	B	94	172.489	158.986	-16.362	1.00	81.00	BS2
ATOM	33231	CA	ASN	B	94	172.880	159.477	-17.667	1.00	81.00	BS2
ATOM	33232	CB	ASN	B	94	173.255	160.945	-17.534	1.00	87.01	BS2
ATOM	33233	CG	ASN	B	94	172.933	161.717	-18.765	1.00	87.01	BS2
ATOM	33234	OD1	ASN	B	94	172.133	161.269	-19.590	1.00	87.01	BS2
ATOM	33235	ND2	ASN	B	94	173.534	162.892	-18.904	1.00	87.01	BS2
ATOM	33236	C	ASN	B	94	173.999	158.735	-18.364	1.00	81.00	BS2
ATOM	33237	O	ASN	B	94	173.905	158.441	-19.554	1.00	81.00	BS2
ATOM	33238	N	GLN	B	95	175.070	158.450	-17.637	1.00	80.74	BS2
ATOM	33239	CA	GLN	B	95	176.173	157.741	-18.244	1.00	80.74	BS2
ATOM	33240	CB	GLN	B	95	177.427	157.868	-17.388	1.00	150.19	BS2
ATOM	33241	CG	GLN	B	95	178.238	159.093	-17.756	1.00	150.19	BS2
ATOM	33242	CD	GLN	B	95	178.328	159.285	-19.269	1.00	150.19	BS2
ATOM	33243	OE1	GLN	B	95	177.342	159.640	-19.924	1.00	150.19	BS2
ATOM	33244	NE2	GLN	B	95	179.509	159.040	-19.829	1.00	150.19	BS2
ATOM	33245	C	GLN	B	95	175.843	156.282	-18.503	1.00	80.74	BS2
ATOM	33246	O	GLN	B	95	175.451	155.925	-19.617	1.00	80.74	BS2
ATOM	33247	N	ARG	B	96	176.006	155.438	-17.489	1.00	78.13	BS2
ATOM	33248	CA	ARG	B	96	175.701	154.026	-17.651	1.00	78.13	BS2
ATOM	33249	CB	ARG	B	96	176.982	153.221	-17.885	1.00	178.44	BS2
ATOM	33250	CG	ARG	B	96	176.998	152.519	-19.238	1.00	178.44	BS2
ATOM	33251	CD	ARG	B	96	176.751	153.513	-20.377	1.00	178.44	BS2
ATOM	33252	NE	ARG	B	96	176.411	152.864	-21.642	1.00	178.44	BS2
ATOM	33253	CZ	ARG	B	96	176.060	153.516	-22.747	1.00	178.44	BS2
ATOM	33254	NH1	ARG	B	96	176.004	154.841	-22.748	1.00	178.44	BS2
ATOM	33255	NH2	ARG	B	96	175.756	152.847	-23.850	1.00	178.44	BS2



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ATOM	33256	C	ARG	B	96	174.955	153.497	-16.448	1.00	78.13	BS2
ATOM	33257	O	ARG	B	96	175.389	153.676	-15.317	1.00	78.13	BS2
ATOM	33258	N	TRP	B	97	173.818	152.856	-16.695	1.00	49.83	BS2
ATOM	33259	CA	TRP	B	97	173.024	152.314	-15.607	1.00	49.83	BS2
ATOM	33260	CB	TRP	B	97	171.686	151.784	-16.133	1.00	83.31	BS2
ATOM	33261	CG	TRP	B	97	170.570	151.966	-15.143	1.00	83.31	BS2
ATOM	33262	CD2	TRP	B	97	170.076	150.992	-14.238	1.00	83.31	BS2
ATOM	33263	CE2	TRP	B	97	169.079	151.620	-13.445	1.00	83.31	BS2
ATOM	33264	CE3	TRP	B	97	170.376	149.648	-14.014	1.00	83.31	BS2
ATOM	33265	CD1	TRP	B	97	169.870	153.122	-14.877	1.00	83.31	BS2
ATOM	33266	NE1	TRP	B	97	168.974	152.920	-13.857	1.00	83.31	BS2
ATOM	33267	CZ2	TRP	B	97	168.387	150.947	-12.451	1.00	83.31	BS2
ATOM	33268	CZ3	TRP	B	97	169.690	148.978	-13.028	1.00	83.31	BS2
ATOM	33269	CH2	TRP	B	97	168.701	149.630	-12.253	1.00	83.31	BS2
ATOM	33270	C	TRP	B	97	173.802	151.188	-14.937	1.00	49.83	BS2
ATOM	33271	O	TRP	B	97	174.078	150.175	-15.564	1.00	49.83	BS2
ATOM	33272	N	LEU	B	98	174.170	151.365	-13.671	1.00	43.81	BS2
ATOM	33273	CA	LEU	B	98	174.909	150.334	-12.943	1.00	43.81	BS2
ATOM	33274	CB	LEU	B	98	175.558	150.920	-11.696	1.00	43.37	BS2
ATOM	33275	CG	LEU	B	98	176.308	152.235	-11.907	1.00	43.37	BS2
ATOM	33276	CD1	LEU	B	98	177.440	152.356	-10.893	1.00	43.37	BS2
ATOM	33277	CD2	LEU	B	98	176.870	152.282	-13.297	1.00	43.37	BS2
ATOM	33278	C	LEU	B	98	174.040	149.140	-12.545	1.00	43.81	BS2
ATOM	33279	O	LEU	B	98	172.805	149.201	-12.545	1.00	43.81	BS2
ATOM	33280	N	GLY	B	99	174.704	148.047	-12.202	1.00	60.55	BS2
ATOM	33281	CA	GLY	B	99	173.990	146.846	-11.845	1.00	60.55	BS2
ATOM	33282	C	GLY	B	99	173.508	146.842	-10.420	1.00	60.55	BS2
ATOM	33283	O	GLY	B	99	174.277	146.538	-9.501	1.00	60.55	BS2
ATOM	33284	N	GLY	B	100	172.234	147.179	-10.230	1.00	75.16	BS2
ATOM	33285	CA	GLY	B	100	171.669	147.179	-8.891	1.00	75.16	BS2
ATOM	33286	C	GLY	B	100	171.337	148.543	-8.329	1.00	75.16	BS2
ATOM	33287	O	GLY	B	100	171.173	148.689	-7.116	1.00	75.16	BS2
ATOM	33288	N	MET	B	101	171.245	149.545	-9.195	1.00	61.84	BS2
ATOM	33289	CA	MET	B	101	170.907	150.874	-8.727	1.00	61.84	BS2
ATOM	33290	CB	MET	B	101	170.756	151.832	-9.919	1.00	58.52	BS2
ATOM	33291	CG	MET	B	101	172.053	151.995	-10.742	1.00	58.52	BS2
ATOM	33292	SD	MET	B	101	172.279	153.557	-11.721	1.00	58.52	BS2
ATOM	33293	CE	MET	B	101	173.528	154.348	-10.763	1.00	58.52	BS2
ATOM	33294	C	MET	B	101	169.608	150.774	-7.901	1.00	61.84	BS2
ATOM	33295	O	MET	B	101	169.547	151.212	-6.746	1.00	61.84	BS2
ATOM	33296	N	LEU	B	102	168.580	150.160	-8.472	1.00	51.39	BS2
ATOM	33297	CA	LEU	B	102	167.320	150.000	-7.761	1.00	51.39	BS2
ATOM	33298	CB	LEU	B	102	166.170	149.903	-8.744	1.00	34.90	BS2
ATOM	33299	CG	LEU	B	102	165.620	151.245	-9.176	1.00	34.90	BS2
ATOM	33300	CD1	LEU	B	102	166.757	152.235	-9.429	1.00	34.90	BS2
ATOM	33301	CD2	LEU	B	102	164.773	151.019	-10.402	1.00	34.90	BS2
ATOM	33302	C	LEU	B	102	167.285	148.766	-6.892	1.00	51.39	BS2
ATOM	33303	O	LEU	B	102	166.752	148.785	-5.785	1.00	51.39	BS2
ATOM	33304	N	THR	B	103	167.856	147.684	-7.398	1.00	45.04	BS2
ATOM	33305	CA	THR	B	103	167.825	146.436	-6.676	1.00	45.04	BS2
ATOM	33306	CB	THR	B	103	167.854	145.271	-7.638	1.00	73.21	BS2
ATOM	33307	OG1	THR	B	103	166.855	145.484	-8.642	1.00	73.21	BS2
ATOM	33308	CG2	THR	B	103	167.519	143.992	-6.912	1.00	73.21	BS2
ATOM	33309	C	THR	B	103	168.887	146.255	-5.633	1.00	45.04	BS2
ATOM	33310	O	THR	B	103	168.710	145.463	-4.724	1.00	45.04	BS2
ATOM	33311	N	ASN	B	104	169.991	146.973	-5.742	1.00	72.87	BS2
ATOM	33312	CA	ASN	B	104	171.021	146.839	-4.729	1.00	72.87	BS2
ATOM	33313	CB	ASN	B	104	172.312	146.269	-5.325	1.00	66.50	BS2
ATOM	33314	CG	ASN	B	104	173.232	145.664	-4.263	1.00	66.50	BS2
ATOM	33315	OD1	ASN	B	104	173.024	145.844	-3.064	1.00	66.50	BS2
ATOM	33316	ND2	ASN	B	104	174.256	144.947	-4.708	1.00	66.50	BS2
ATOM	33317	C	ASN	B	104	171.269	148.223	-4.167	1.00	72.87	BS2
ATOM	33318	O	ASN	B	104	172.357	148.514	-3.657	1.00	72.87	BS2
ATOM	33319	N	PHE	B	105	170.238	149.063	-4.261	1.00	69.59	BS2
ATOM	33320	CA	PHE	B	105	170.268	150.457	-3.792	1.00	69.59	BS2
ATOM	33321	CB	PHE	B	105	168.848	150.961	-3.552	1.00	62.94	BS2
ATOM	33322	CG	PHE	B	105	168.772	152.434	-3.270	1.00	62.94	BS2
ATOM	33323	CD1	PHE	B	105	168.422	153.331	-4.277	1.00	62.94	BS2
ATOM	33324	CD2	PHE	B	105	169.051	152.930	-2.000	1.00	62.94	BS2
ATOM	33325	CE1	PHE	B	105	168.346	154.700	-4.025	1.00	62.94	BS2
ATOM	33326	CE2	PHE	B	105	168.979	154.296	-1.742	1.00	62.94	BS2
ATOM	33327	CZ	PHE	B	105	168.624	155.181	-2.760	1.00	62.94	BS2
ATOM	33328	C	PHE	B	105	171.096	150.760	-2.543	1.00	69.59	BS2
ATOM	33329	O	PHE	B	105	172.033	151.548	-2.600	1.00	69.59	BS2
ATOM	33330	N	LYS	B	106	170.741	150.160	-1.412	1.00	61.90	BS2
ATOM	33331	CA	LYS	B	106	171.484	150.421	-0.189	1.00	61.90	BS2
ATOM	33332	CB	LYS	B	106	171.205	149.365	0.880	1.00	145.62	BS2



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ATOM	33333	CG	LYS	B	106	172.096	149.534	2.112	1.00145.62	BS2
ATOM	33334	CD	LYS	B	106	171.728	148.596	3.262	1.00145.62	BS2
ATOM	33335	CE	LYS	B	106	170.545	149.116	4.084	1.00145.62	BS2
ATOM	33336	NZ	LYS	B	106	170.209	148.220	5.239	1.00145.62	BS2
ATOM	33337	C	LYS	B	106	172.966	150.441	-0.483	1.00 61.90	BS2
ATOM	33338	O	LYS	B	106	173.708	151.277	0.044	1.00 61.90	BS2
ATOM	33339	N	THR	B	107	173.392	149.523	-1.340	1.00 74.61	BS2
ATOM	33340	CA	THR	B	107	174.794	149.428	-1.698	1.00 74.61	BS2
ATOM	33341	CB	THR	B	107	175.135	148.002	-2.188	1.00 58.80	BS2
ATOM	33342	OG1	THR	B	107	175.193	147.110	-1.066	1.00 58.80	BS2
ATOM	33343	CG2	THR	B	107	176.473	147.982	-2.886	1.00 58.80	BS2
ATOM	33344	C	THR	B	107	175.240	150.465	-2.734	1.00 74.61	BS2
ATOM	33345	O	THR	B	107	176.125	151.279	-2.443	1.00 74.61	BS2
ATOM	33346	N	ILE	B	108	174.637	150.454	-3.926	1.00 55.72	BS2
ATOM	33347	CA	ILE	B	108	175.029	151.405	-4.968	1.00 55.72	BS2
ATOM	33348	CB	ILE	B	108	174.133	151.312	-6.233	1.00105.19	BS2
ATOM	33349	CG2	ILE	B	108	173.794	152.699	-6.778	1.00105.19	BS2
ATOM	33350	CG1	ILE	B	108	174.884	150.563	-7.329	1.00105.19	BS2
ATOM	33351	CD1	ILE	B	108	174.182	150.594	-8.684	1.00105.19	BS2
ATOM	33352	C	ILE	B	108	175.005	152.825	-4.456	1.00 55.72	BS2
ATOM	33353	O	ILE	B	108	175.561	153.720	-5.085	1.00 55.72	BS2
ATOM	33354	N	SER	B	109	174.356	153.033	-3.316	1.00 97.35	BS2
ATOM	33355	CA	SER	B	109	174.279	154.358	-2.719	1.00 97.35	BS2
ATOM	33356	CB	SER	B	109	173.093	154.437	-1.759	1.00147.13	BS2
ATOM	33357	OG	SER	B	109	173.279	153.554	-0.667	1.00147.13	BS2
ATOM	33358	C	SER	B	109	175.577	154.628	-1.961	1.00 97.35	BS2
ATOM	33359	O	SER	B	109	176.086	155.752	-1.955	1.00 97.35	BS2
ATOM	33360	N	GLN	B	110	176.110	153.588	-1.328	1.00 62.37	BS2
ATOM	33361	CA	GLN	B	110	177.347	153.711	-0.576	1.00 62.37	BS2
ATOM	33362	CB	GLN	B	110	177.866	152.342	-0.190	1.00114.82	BS2
ATOM	33363	CG	GLN	B	110	177.080	151.706	0.913	1.00114.82	BS2
ATOM	33364	CD	GLN	B	110	177.780	150.490	1.455	1.00114.82	BS2
ATOM	33365	OE1	GLN	B	110	177.914	149.483	0.761	1.00114.82	BS2
ATOM	33366	NE2	GLN	B	110	178.249	150.577	2.697	1.00114.82	BS2
ATOM	33367	C	GLN	B	110	178.401	154.440	-1.384	1.00 62.37	BS2
ATOM	33368	O	GLN	B	110	179.329	155.040	-0.830	1.00 62.37	BS2
ATOM	33369	N	ARG	B	111	178.263	154.372	-2.701	1.00111.00	BS2
ATOM	33370	CA	ARG	B	111	179.195	155.054	-3.574	1.00111.00	BS2
ATOM	33371	CB	ARG	B	111	178.973	154.645	-5.023	1.00 72.11	BS2
ATOM	33372	CG	ARG	B	111	179.591	153.310	-5.394	1.00 72.11	BS2
ATOM	33373	CD	ARG	B	111	181.094	153.348	-5.239	1.00 72.11	BS2
ATOM	33374	NE	ARG	B	111	181.517	152.968	-3.897	1.00 72.11	BS2
ATOM	33375	CZ	ARG	B	111	182.723	153.229	-3.407	1.00 72.11	BS2
ATOM	33376	NH1	ARG	B	111	183.617	153.876	-4.151	1.00 72.11	BS2
ATOM	33377	NH2	ARG	B	111	183.041	152.834	-2.180	1.00 72.11	BS2
ATOM	33378	C	ARG	B	111	178.972	156.542	-3.416	1.00111.00	BS2
ATOM	33379	O	ARG	B	111	179.928	157.306	-3.301	1.00111.00	BS2
ATOM	33380	N	VAL	B	112	177.711	156.961	-3.408	1.00 87.43	BS2
ATOM	33381	CA	VAL	B	112	177.425	158.374	-3.239	1.00 87.43	BS2
ATOM	33382	CB	VAL	B	112	175.921	158.653	-3.144	1.00 54.07	BS2
ATOM	33383	CG1	VAL	B	112	175.691	160.119	-2.876	1.00 54.07	BS2
ATOM	33384	CG2	VAL	B	112	175.247	158.287	-4.447	1.00 54.07	BS2
ATOM	33385	C	VAL	B	112	178.107	158.868	-1.968	1.00 87.43	BS2
ATOM	33386	O	VAL	B	112	178.931	159.784	-2.026	1.00 87.43	BS2
ATOM	33387	N	HIS	B	113	177.785	158.261	-0.827	1.00 85.84	BS2
ATOM	33388	CA	HIS	B	113	178.402	158.664	0.437	1.00 85.84	BS2
ATOM	33389	CB	HIS	B	113	178.296	157.545	1.466	1.00144.85	BS2
ATOM	33390	CG	HIS	B	113	176.890	157.225	1.852	1.00144.85	BS2
ATOM	33391	CD2	HIS	B	113	176.215	156.052	1.874	1.00144.85	BS2
ATOM	33392	ND1	HIS	B	113	176.002	158.189	2.276	1.00144.85	BS2
ATOM	33393	CE1	HIS	B	113	174.838	157.624	2.543	1.00144.85	BS2
ATOM	33394	NE2	HIS	B	113	174.941	156.328	2.307	1.00144.85	BS2
ATOM	33395	C	HIS	B	113	179.868	159.002	0.218	1.00 85.84	BS2
ATOM	33396	O	HIS	B	113	180.299	160.136	0.446	1.00 85.84	BS2
ATOM	33397	N	ARG	B	114	180.626	158.005	-0.227	1.00113.76	BS2
ATOM	33398	CA	ARG	B	114	182.040	158.183	-0.511	1.00113.76	BS2
ATOM	33399	CB	ARG	B	114	182.543	157.033	-1.383	1.00129.51	BS2
ATOM	33400	CG	ARG	B	114	183.568	156.130	-0.721	1.00129.51	BS2
ATOM	33401	CD	ARG	B	114	184.907	156.831	-0.541	1.00129.51	BS2
ATOM	33402	NE	ARG	B	114	185.978	155.877	-0.262	1.00129.51	BS2
ATOM	33403	CZ	ARG	B	114	187.240	156.215	-0.014	1.00129.51	BS2
ATOM	33404	NH1	ARG	B	114	187.600	157.494	-0.004	1.00129.51	BS2
ATOM	33405	NH2	ARG	B	114	188.146	155.271	0.213	1.00129.51	BS2
ATOM	33406	C	ARG	B	114	182.218	159.505	-1.250	1.00113.76	BS2
ATOM	33407	O	ARG	B	114	182.862	160.420	-0.746	1.00113.76	BS2
ATOM	33408	N	LEU	B	115	181.629	159.600	-2.440	1.00 86.69	BS2
ATOM	33409	CA	LEU	B	115	181.712	160.807	-3.255	1.00 86.69	BS2



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ATOM	33410	CB	LEU	B	115	180.580	160.830	-4.280	1.00	89.55	BS2
ATOM	33411	CG	LEU	B	115	180.237	162.214	-4.845	1.00	89.55	BS2
ATOM	33412	CD1	LEU	B	115	181.479	162.879	-5.408	1.00	89.55	BS2
ATOM	33413	CD2	LEU	B	115	179.188	162.076	-5.924	1.00	89.55	BS2
ATOM	33414	C	LEU	B	115	181.653	162.074	-2.414	1.00	86.69	BS2
ATOM	33415	O	LEU	B	115	182.586	162.884	-2.412	1.00	86.69	BS2
ATOM	33416	N	GLU	B	116	180.543	162.251	-1.712	1.00	68.52	BS2
ATOM	33417	CA	GLU	B	116	180.374	163.413	-0.862	1.00	68.52	BS2
ATOM	33418	CB	GLU	B	116	179.080	163.273	-0.063	1.00	97.42	BS2
ATOM	33419	CG	GLU	B	116	177.874	163.022	-0.957	1.00	97.42	BS2
ATOM	33420	CD	GLU	B	116	176.563	162.920	-0.197	1.00	97.42	BS2
ATOM	33421	OE1	GLU	B	116	176.470	162.082	0.732	1.00	97.42	BS2
ATOM	33422	OE2	GLU	B	116	175.624	163.674	-0.542	1.00	97.42	BS2
ATOM	33423	C	GLU	B	116	181.579	163.520	0.071	1.00	68.52	BS2
ATOM	33424	O	GLU	B	116	182.216	164.574	0.165	1.00	68.52	BS2
ATOM	33425	N	GLU	B	117	181.898	162.412	0.737	1.00	110.04	BS2
ATOM	33426	CA	GLU	B	117	183.022	162.352	1.668	1.00	110.04	BS2
ATOM	33427	CB	GLU	B	117	183.168	160.941	2.236	1.00	135.74	BS2
ATOM	33428	CG	GLU	B	117	184.428	160.758	3.061	1.00	135.74	BS2
ATOM	33429	CD	GLU	B	117	184.584	159.350	3.590	1.00	135.74	BS2
ATOM	33430	OE1	GLU	B	117	184.480	158.398	2.787	1.00	135.74	BS2
ATOM	33431	OE2	GLU	B	117	184.819	159.194	4.807	1.00	135.74	BS2
ATOM	33432	C	GLU	B	117	184.353	162.787	1.057	1.00	110.04	BS2
ATOM	33433	O	GLU	B	117	185.132	163.486	1.705	1.00	110.04	BS2
ATOM	33434	N	LEU	B	118	184.631	162.365	-0.174	1.00	106.03	BS2
ATOM	33435	CA	LEU	B	118	185.879	162.756	-0.818	1.00	106.03	BS2
ATOM	33436	CB	LEU	B	118	186.108	161.968	-2.109	1.00	83.55	BS2
ATOM	33437	CG	LEU	B	118	186.407	160.475	-1.919	1.00	83.55	BS2
ATOM	33438	CD1	LEU	B	118	186.562	159.819	-3.272	1.00	83.55	BS2
ATOM	33439	CD2	LEU	B	118	187.667	160.286	-1.086	1.00	83.55	BS2
ATOM	33440	C	LEU	B	118	185.815	164.243	-1.114	1.00	106.03	BS2
ATOM	33441	O	LEU	B	118	186.790	164.968	-0.907	1.00	106.03	BS2
ATOM	33442	N	GLU	B	119	184.658	164.697	-1.589	1.00	70.54	BS2
ATOM	33443	CA	GLU	B	119	184.474	166.112	-1.882	1.00	70.54	BS2
ATOM	33444	CB	GLU	B	119	183.034	166.383	-2.275	1.00	132.62	BS2
ATOM	33445	CG	GLU	B	119	182.611	165.667	-3.519	1.00	132.62	BS2
ATOM	33446	CD	GLU	B	119	181.180	165.967	-3.865	1.00	132.62	BS2
ATOM	33447	OE1	GLU	B	119	180.286	165.534	-3.107	1.00	132.62	BS2
ATOM	33448	OE2	GLU	B	119	180.951	166.646	-4.889	1.00	132.62	BS2
ATOM	33449	C	GLU	B	119	184.818	166.920	-0.637	1.00	70.54	BS2
ATOM	33450	O	GLU	B	119	185.286	168.058	-0.720	1.00	70.54	BS2
ATOM	33451	N	ALA	B	120	184.576	166.313	0.519	1.00	124.03	BS2
ATOM	33452	CA	ALA	B	120	184.859	166.950	1.792	1.00	124.03	BS2
ATOM	33453	CB	ALA	B	120	184.371	166.080	2.930	1.00	122.75	BS2
ATOM	33454	C	ALA	B	120	186.352	167.179	1.919	1.00	124.03	BS2
ATOM	33455	O	ALA	B	120	186.786	168.245	2.347	1.00	124.03	BS2
ATOM	33456	N	LEU	B	121	187.137	166.175	1.546	1.00	103.93	BS2
ATOM	33457	CA	LEU	B	121	188.586	166.291	1.630	1.00	103.93	BS2
ATOM	33458	CB	LEU	B	121	189.252	164.935	1.395	1.00	129.69	BS2
ATOM	33459	CG	LEU	B	121	188.927	163.813	2.382	1.00	129.69	BS2
ATOM	33460	CD1	LEU	B	121	189.911	162.672	2.168	1.00	129.69	BS2
ATOM	33461	CD2	LEU	B	121	189.015	164.323	3.811	1.00	129.69	BS2
ATOM	33462	C	LEU	B	121	189.130	167.302	0.629	1.00	103.93	BS2
ATOM	33463	O	LEU	B	121	189.829	168.240	1.006	1.00	103.93	BS2
ATOM	33464	N	PHE	B	122	188.815	167.110	-0.647	1.00	117.82	BS2
ATOM	33465	CA	PHE	B	122	189.291	168.023	-1.679	1.00	117.82	BS2
ATOM	33466	CB	PHE	B	122	188.995	167.452	-3.071	1.00	140.58	BS2
ATOM	33467	CG	PHE	B	122	189.903	166.311	-3.469	1.00	140.58	BS2
ATOM	33468	CD1	PHE	B	122	190.128	165.241	-2.606	1.00	140.58	BS2
ATOM	33469	CD2	PHE	B	122	190.524	166.303	-4.715	1.00	140.58	BS2
ATOM	33470	CE1	PHE	B	122	190.957	164.183	-2.979	1.00	140.58	BS2
ATOM	33471	CE2	PHE	B	122	191.353	165.248	-5.096	1.00	140.58	BS2
ATOM	33472	CZ	PHE	B	122	191.570	164.187	-4.227	1.00	140.58	BS2
ATOM	33473	C	PHE	B	122	188.659	169.402	-1.516	1.00	117.82	BS2
ATOM	33474	O	PHE	B	122	187.846	169.836	-2.336	1.00	117.82	BS2
ATOM	33475	N	ALA	B	123	189.053	170.075	-0.436	1.00	133.01	BS2
ATOM	33476	CA	ALA	B	123	188.582	171.411	-0.082	1.00	133.01	BS2
ATOM	33477	CB	ALA	B	123	187.071	171.517	-0.276	1.00	69.31	BS2
ATOM	33478	C	ALA	B	123	188.940	171.667	1.379	1.00	133.01	BS2
ATOM	33479	O	ALA	B	123	189.157	172.808	1.787	1.00	133.01	BS2
ATOM	33480	N	SER	B	124	189.009	170.585	2.151	1.00	119.55	BS2
ATOM	33481	CA	SER	B	124	189.324	170.632	3.580	1.00	119.55	BS2
ATOM	33482	CB	SER	B	124	188.913	169.304	4.232	1.00	147.97	BS2
ATOM	33483	OG	SER	B	124	189.827	168.266	3.920	1.00	147.97	BS2
ATOM	33484	C	SER	B	124	190.815	170.913	3.822	1.00	119.55	BS2
ATOM	33485	O	SER	B	124	191.473	171.521	2.980	1.00	119.55	BS2
ATOM	33486	N	PRO	B	125	191.361	170.513	4.990	1.00	177.00	BS2



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ATOM	33487	CD	PRO	B	125	190.738	170.122	6.272	1.00143.54	BS2
ATOM	33488	CA	PRO	B	125	192.786	170.792	5.188	1.00177.00	BS2
ATOM	33489	CB	PRO	B	125	192.896	170.918	6.700	1.00143.54	BS2
ATOM	33490	CG	PRO	B	125	191.938	169.873	7.166	1.00143.54	BS2
ATOM	33491	C	PRO	B	125	193.630	169.643	4.654	1.00177.00	BS2
ATOM	33492	O	PRO	B	125	194.634	169.844	3.971	1.00177.00	BS2
ATOM	33493	N	GLU	B	126	193.189	168.435	4.981	1.00161.57	BS2
ATOM	33494	CA	GLU	B	126	193.847	167.200	4.587	1.00161.57	BS2
ATOM	33495	CB	GLU	B	126	192.963	166.028	4.995	1.00198.94	BS2
ATOM	33496	CG	GLU	B	126	192.510	166.114	6.439	1.00198.94	BS2
ATOM	33497	CD	GLU	B	126	191.232	165.355	6.687	1.00198.94	BS2
ATOM	33498	OE1	GLU	B	126	190.196	165.737	6.102	1.00198.94	BS2
ATOM	33499	OE2	GLU	B	126	191.262	164.378	7.463	1.00198.94	BS2
ATOM	33500	C	GLU	B	126	194.147	167.130	3.094	1.00161.57	BS2
ATOM	33501	O	GLU	B	126	194.809	166.198	2.631	1.00161.57	BS2
ATOM	33502	N	ILE	B	127	193.649	168.110	2.345	1.00191.10	BS2
ATOM	33503	CA	ILE	B	127	193.871	168.163	0.906	1.00191.10	BS2
ATOM	33504	CB	ILE	B	127	193.679	169.585	0.349	1.00106.20	BS2
ATOM	33505	CG2	ILE	B	127	193.653	169.544	-1.169	1.00106.20	BS2
ATOM	33506	CG1	ILE	B	127	192.379	170.190	0.864	1.00106.20	BS2
ATOM	33507	CD1	ILE	B	127	192.189	171.642	0.446	1.00106.20	BS2
ATOM	33508	C	ILE	B	127	195.314	167.775	0.647	1.00191.10	BS2
ATOM	33509	O	ILE	B	127	195.607	166.697	0.130	1.00191.10	BS2
ATOM	33510	N	GLU	B	128	196.213	168.673	1.030	1.00150.38	BS2
ATOM	33511	CA	GLU	B	128	197.636	168.462	0.849	1.00150.38	BS2
ATOM	33512	CB	GLU	B	128	198.359	169.811	0.809	1.00169.82	BS2
ATOM	33513	CG	GLU	B	128	198.111	170.635	-0.461	1.00169.82	BS2
ATOM	33514	CD	GLU	B	128	196.642	170.969	-0.700	1.00169.82	BS2
ATOM	33515	OE1	GLU	B	128	195.989	171.526	0.210	1.00169.82	BS2
ATOM	33516	OE2	GLU	B	128	196.145	170.683	-1.811	1.00169.82	BS2
ATOM	33517	C	GLU	B	128	198.222	167.578	1.944	1.00150.38	BS2
ATOM	33518	O	GLU	B	128	199.180	167.952	2.617	1.00150.38	BS2
ATOM	33519	N	GLU	B	129	197.626	166.405	2.123	1.00151.25	BS2
ATOM	33520	CA	GLU	B	129	198.098	165.439	3.105	1.00151.25	BS2
ATOM	33521	CB	GLU	B	129	197.118	165.311	4.270	1.00198.94	BS2
ATOM	33522	CG	GLU	B	129	197.292	166.374	5.336	1.00198.94	BS2
ATOM	33523	CD	GLU	B	129	196.639	165.986	6.648	1.00198.94	BS2
ATOM	33524	OE1	GLU	B	129	195.394	165.927	6.702	1.00198.94	BS2
ATOM	33525	OE2	GLU	B	129	197.374	165.729	7.626	1.00198.94	BS2
ATOM	33526	C	GLU	B	129	198.260	164.092	2.418	1.00151.25	BS2
ATOM	33527	O	GLU	B	129	197.439	163.720	1.576	1.00151.25	BS2
ATOM	33528	N	ARG	B	130	199.319	163.371	2.780	1.00135.35	BS2
ATOM	33529	CA	ARG	B	130	199.616	162.068	2.188	1.00135.35	BS2
ATOM	33530	CB	ARG	B	130	198.347	161.209	2.113	1.00198.94	BS2
ATOM	33531	CG	ARG	B	130	197.815	160.731	3.459	1.00198.94	BS2
ATOM	33532	CD	ARG	B	130	198.785	159.765	4.129	1.00198.94	BS2
ATOM	33533	NE	ARG	B	130	198.175	159.076	5.264	1.00198.94	BS2
ATOM	33534	CZ	ARG	B	130	198.792	158.157	6.001	1.00198.94	BS2
ATOM	33535	NH1	ARG	B	130	200.044	157.814	5.729	1.00198.94	BS2
ATOM	33536	NH2	ARG	B	130	198.155	157.576	7.008	1.00198.94	BS2
ATOM	33537	C	ARG	B	130	200.209	162.253	0.787	1.00135.35	BS2
ATOM	33538	O	ARG	B	130	200.054	163.309	0.170	1.00135.35	BS2
ATOM	33539	N	PRO	B	131	200.887	161.220	0.261	1.00161.78	BS2
ATOM	33540	CD	PRO	B	131	200.935	159.829	0.747	1.00162.11	BS2
ATOM	33541	CA	PRO	B	131	201.487	161.322	-1.072	1.00161.78	BS2
ATOM	33542	CB	PRO	B	131	202.051	159.922	-1.300	1.00162.11	BS2
ATOM	33543	CG	PRO	B	131	201.095	159.052	-0.538	1.00162.11	BS2
ATOM	33544	C	PRO	B	131	200.495	161.722	-2.155	1.00161.78	BS2
ATOM	33545	O	PRO	B	131	199.295	161.492	-2.024	1.00161.78	BS2
ATOM	33546	N	LYS	B	132	201.000	162.334	-3.221	1.00147.03	BS2
ATOM	33547	CA	LYS	B	132	200.139	162.729	-4.322	1.00147.03	BS2
ATOM	33548	CB	LYS	B	132	200.906	163.546	-5.357	1.00127.96	BS2
ATOM	33549	CG	LYS	B	132	201.101	164.986	-4.970	1.00127.96	BS2
ATOM	33550	CD	LYS	B	132	200.636	165.893	-6.087	1.00127.96	BS2
ATOM	33551	CE	LYS	B	132	200.709	167.350	-5.670	1.00127.96	BS2
ATOM	33552	NZ	LYS	B	132	200.264	168.272	-6.756	1.00127.96	BS2
ATOM	33553	C	LYS	B	132	199.597	161.472	-4.972	1.00147.03	BS2
ATOM	33554	O	LYS	B	132	198.545	161.499	-5.603	1.00147.03	BS2
ATOM	33555	N	LYS	B	133	200.325	160.369	-4.815	1.00198.94	BS2
ATOM	33556	CA	LYS	B	133	199.902	159.094	-5.383	1.00198.94	BS2
ATOM	33557	CB	LYS	B	133	200.827	157.966	-4.909	1.00198.90	BS2
ATOM	33558	CG	LYS	B	133	202.266	158.118	-5.401	1.00198.90	BS2
ATOM	33559	CD	LYS	B	133	203.125	156.899	-5.084	1.00198.90	BS2
ATOM	33560	CE	LYS	B	133	204.521	157.046	-5.681	1.00198.90	BS2
ATOM	33561	NZ	LYS	B	133	205.372	155.842	-5.463	1.00198.90	BS2
ATOM	33562	C	LYS	B	133	198.460	158.834	-4.960	1.00198.94	BS2
ATOM	33563	O	LYS	B	133	197.663	158.291	-5.727	1.00198.94	BS2



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ATOM	33564	N	GLU	B	134	198.132	159.233	-3.735	1.00164.24	BS2
ATOM	33565	CA	GLU	B	134	196.778	159.086	-3.220	1.00164.24	BS2
ATOM	33566	CB	GLU	B	134	196.783	158.972	-1.702	1.00147.91	BS2
ATOM	33567	CG	GLU	B	134	197.487	157.759	-1.167	1.00147.91	BS2
ATOM	33568	CD	GLU	B	134	197.212	157.574	0.301	1.00147.91	BS2
ATOM	33569	OE1	GLU	B	134	197.546	158.484	1.086	1.00147.91	BS2
ATOM	33570	OE2	GLU	B	134	196.651	156.523	0.671	1.00147.91	BS2
ATOM	33571	C	GLU	B	134	196.045	160.354	-3.614	1.00164.24	BS2
ATOM	33572	O	GLU	B	134	194.894	160.320	-4.048	1.00164.24	BS2
ATOM	33573	N	GLN	B	135	196.739	161.476	-3.455	1.00108.22	BS2
ATOM	33574	CA	GLN	B	135	196.208	162.787	-3.798	1.00108.22	BS2
ATOM	33575	CB	GLN	B	135	197.239	163.864	-3.442	1.00165.86	BS2
ATOM	33576	CG	GLN	B	135	196.799	165.296	-3.696	1.00165.86	BS2
ATOM	33577	CD	GLN	B	135	197.788	166.309	-3.149	1.00165.86	BS2
ATOM	33578	OE1	GLN	B	135	198.986	166.226	-3.414	1.00165.86	BS2
ATOM	33579	NE2	GLN	B	135	197.289	167.275	-2.385	1.00165.86	BS2
ATOM	33580	C	GLN	B	135	195.903	162.798	-5.295	1.00108.22	BS2
ATOM	33581	O	GLN	B	135	195.587	163.837	-5.882	1.00108.22	BS2
ATOM	33582	N	VAL	B	136	196.011	161.618	-5.899	1.00131.09	BS2
ATOM	33583	CA	VAL	B	136	195.742	161.420	-7.315	1.00131.09	BS2
ATOM	33584	CB	VAL	B	136	197.043	161.214	-8.112	1.00156.59	BS2
ATOM	33585	CG1	VAL	B	136	196.720	160.764	-9.526	1.00156.59	BS2
ATOM	33586	CG2	VAL	B	136	197.835	162.514	-8.148	1.00156.59	BS2
ATOM	33587	C	VAL	B	136	194.837	160.204	-7.487	1.00131.09	BS2
ATOM	33588	O	VAL	B	136	193.980	160.190	-8.367	1.00131.09	BS2
ATOM	33589	N	ARG	B	137	195.030	159.184	-6.653	1.00170.30	BS2
ATOM	33590	CA	ARG	B	137	194.186	157.995	-6.719	1.00170.30	BS2
ATOM	33591	CB	ARG	B	137	194.667	156.911	-5.754	1.00140.13	BS2
ATOM	33592	CG	ARG	B	137	195.840	156.092	-6.251	1.00140.13	BS2
ATOM	33593	CD	ARG	B	137	195.837	154.671	-5.665	1.00140.13	BS2
ATOM	33594	NE	ARG	B	137	195.938	154.617	-4.204	1.00140.13	BS2
ATOM	33595	CZ	ARG	B	137	194.926	154.815	-3.363	1.00140.13	BS2
ATOM	33596	NH1	ARG	B	137	193.712	155.084	-3.823	1.00140.13	BS2
ATOM	33597	NH2	ARG	B	137	195.127	154.739	-2.055	1.00140.13	BS2
ATOM	33598	C	ARG	B	137	192.780	158.418	-6.321	1.00170.30	BS2
ATOM	33599	O	ARG	B	137	191.791	158.012	-6.935	1.00170.30	BS2
ATOM	33600	N	LEU	B	138	192.706	159.235	-5.275	1.00 81.11	BS2
ATOM	33601	CA	LEU	B	138	191.433	159.741	-4.788	1.00 81.11	BS2
ATOM	33602	CB	LEU	B	138	191.604	160.359	-3.394	1.00113.06	BS2
ATOM	33603	CG	LEU	B	138	192.183	159.409	-2.327	1.00113.06	BS2
ATOM	33604	CD1	LEU	B	138	192.073	160.053	-0.952	1.00113.06	BS2
ATOM	33605	CD2	LEU	B	138	191.438	158.078	-2.335	1.00113.06	BS2
ATOM	33606	C	LEU	B	138	190.952	160.773	-5.795	1.00 81.11	BS2
ATOM	33607	O	LEU	B	138	189.780	160.800	-6.163	1.00 81.11	BS2
ATOM	33608	N	LYS	B	139	191.872	161.611	-6.256	1.00107.55	BS2
ATOM	33609	CA	LYS	B	139	191.544	162.614	-7.257	1.00107.55	BS2
ATOM	33610	CB	LYS	B	139	192.820	163.139	-7.915	1.00180.59	BS2
ATOM	33611	CG	LYS	B	139	192.914	164.644	-7.992	1.00180.59	BS2
ATOM	33612	CD	LYS	B	139	191.643	165.256	-8.542	1.00180.59	BS2
ATOM	33613	CE	LYS	B	139	191.814	166.750	-8.705	1.00180.59	BS2
ATOM	33614	NZ	LYS	B	139	192.391	167.361	-7.476	1.00180.59	BS2
ATOM	33615	C	LYS	B	139	190.694	161.903	-8.305	1.00107.55	BS2
ATOM	33616	O	LYS	B	139	189.718	162.458	-8.805	1.00107.55	BS2
ATOM	33617	N	HIS	B	140	191.080	160.664	-8.614	1.00187.19	BS2
ATOM	33618	CA	HIS	B	140	190.379	159.829	-9.587	1.00187.19	BS2
ATOM	33619	CB	HIS	B	140	191.203	158.587	-9.946	1.00179.51	BS2
ATOM	33620	CG	HIS	B	140	192.425	158.876	-10.762	1.00179.51	BS2
ATOM	33621	CD2	HIS	B	140	193.709	158.471	-10.618	1.00179.51	BS2
ATOM	33622	ND1	HIS	B	140	192.392	159.644	-11.907	1.00179.51	BS2
ATOM	33623	CE1	HIS	B	140	193.603	159.699	-12.432	1.00179.51	BS2
ATOM	33624	NE2	HIS	B	140	194.421	158.995	-11.670	1.00179.51	BS2
ATOM	33625	C	HIS	B	140	189.034	159.370	-9.048	1.00187.19	BS2
ATOM	33626	O	HIS	B	140	188.017	159.488	-9.724	1.00187.19	BS2
ATOM	33627	N	GLU	B	141	189.035	158.827	-7.836	1.00 91.62	BS2
ATOM	33628	CA	GLU	B	141	187.800	158.356	-7.221	1.00 91.62	BS2
ATOM	33629	CB	GLU	B	141	187.978	158.213	-5.721	1.00100.98	BS2
ATOM	33630	CG	GLU	B	141	188.372	156.837	-5.283	1.00100.98	BS2
ATOM	33631	CD	GLU	B	141	187.502	156.358	-4.149	1.00100.98	BS2
ATOM	33632	OE1	GLU	B	141	187.482	157.034	-3.099	1.00100.98	BS2
ATOM	33633	OE2	GLU	B	141	186.829	155.315	-4.309	1.00100.98	BS2
ATOM	33634	C	GLU	B	141	186.632	159.292	-7.492	1.00 91.62	BS2
ATOM	33635	O	GLU	B	141	185.598	158.874	-8.015	1.00 91.62	BS2
ATOM	33636	N	LEU	B	142	186.795	160.559	-7.126	1.00 81.22	BS2
ATOM	33637	CA	LEU	B	142	185.741	161.537	-7.349	1.00 81.22	BS2
ATOM	33638	CB	LEU	B	142	186.161	162.926	-6.852	1.00121.49	BS2
ATOM	33639	CG	LEU	B	142	186.157	163.183	-5.340	1.00121.49	BS2
ATOM	33640	CD1	LEU	B	142	186.763	164.538	-5.067	1.00121.49	BS2



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ATOM	33641	CD2	LEU	B	142	184.744	163.135	-4.791	1.00121.49	BS2
ATOM	33642	C	LEU	B	142	185.455	161.596	-8.832	1.00 81.22	BS2
ATOM	33643	O	LEU	B	142	184.297	161.594	-9.247	1.00 81.22	BS2
ATOM	33644	N	GLU	B	143	186.520	161.634	-9.627	1.00 99.11	BS2
ATOM	33645	CA	GLU	B	143	186.384	161.707	-11.075	1.00 99.11	BS2
ATOM	33646	CB	GLU	B	143	187.672	161.259	-11.783	1.00175.06	BS2
ATOM	33647	CG	GLU	B	143	188.942	161.986	-11.376	1.00175.06	BS2
ATOM	33648	CD	GLU	B	143	188.880	163.478	-11.612	1.00175.06	BS2
ATOM	33649	OE1	GLU	B	143	188.649	163.889	-12.769	1.00175.06	BS2
ATOM	33650	OE2	GLU	B	143	189.068	164.239	-10.638	1.00175.06	BS2
ATOM	33651	C	GLU	B	143	185.244	160.816	-11.535	1.00 99.11	BS2
ATOM	33652	O	GLU	B	143	184.225	161.303	-12.032	1.00 99.11	BS2
ATOM	33653	N	ARG	B	144	185.413	159.509	-11.350	1.00112.25	BS2
ATOM	33654	CA	ARG	B	144	184.402	158.561	-11.781	1.00112.25	BS2
ATOM	33655	CB	ARG	B	144	184.929	157.121	-11.692	1.00148.24	BS2
ATOM	33656	CG	ARG	B	144	185.027	156.529	-10.300	1.00148.24	BS2
ATOM	33657	CD	ARG	B	144	184.292	155.194	-10.263	1.00148.24	BS2
ATOM	33658	NE	ARG	B	144	184.676	154.327	-11.377	1.00148.24	BS2
ATOM	33659	CZ	ARG	B	144	184.014	153.232	-11.738	1.00148.24	BS2
ATOM	33660	NH1	ARG	B	144	182.925	152.859	-11.076	1.00148.24	BS2
ATOM	33661	NH2	ARG	B	144	184.437	152.511	-12.767	1.00148.24	BS2
ATOM	33662	C	ARG	B	144	183.094	158.708	-11.016	1.00112.25	BS2
ATOM	33663	O	ARG	B	144	182.032	158.806	-11.633	1.00112.25	BS2
ATOM	33664	N	LEU	B	145	183.159	158.733	-9.685	1.00 66.12	BS2
ATOM	33665	CA	LEU	B	145	181.941	158.883	-8.893	1.00 66.12	BS2
ATOM	33666	CB	LEU	B	145	182.272	159.214	-7.443	1.00 64.72	BS2
ATOM	33667	CG	LEU	B	145	182.738	158.003	-6.642	1.00 64.72	BS2
ATOM	33668	CD1	LEU	B	145	183.185	158.422	-5.245	1.00 64.72	BS2
ATOM	33669	CD2	LEU	B	145	181.596	157.002	-6.574	1.00 64.72	BS2
ATOM	33670	C	LEU	B	145	181.124	160.001	-9.502	1.00 66.12	BS2
ATOM	33671	O	LEU	B	145	179.918	159.870	-9.701	1.00 66.12	BS2
ATOM	33672	N	GLN	B	146	181.806	161.091	-9.823	1.00 68.88	BS2
ATOM	33673	CA	GLN	B	146	181.157	162.239	-10.422	1.00 68.88	BS2
ATOM	33674	CB	GLN	B	146	182.125	163.428	-10.452	1.00132.92	BS2
ATOM	33675	CG	GLN	B	146	182.105	164.291	-9.190	1.00132.92	BS2
ATOM	33676	CD	GLN	B	146	183.499	164.616	-8.678	1.00132.92	BS2
ATOM	33677	OE1	GLN	B	146	184.428	164.817	-9.459	1.00132.92	BS2
ATOM	33678	NE2	GLN	B	146	183.646	164.680	-7.358	1.00132.92	BS2
ATOM	33679	C	GLN	B	146	180.655	161.937	-11.832	1.00 68.88	BS2
ATOM	33680	O	GLN	B	146	179.709	162.568	-12.308	1.00 68.88	BS2
ATOM	33681	N	LYS	B	147	181.272	160.969	-12.501	1.00 92.66	BS2
ATOM	33682	CA	LYS	B	147	180.867	160.632	-13.862	1.00 92.66	BS2
ATOM	33683	CB	LYS	B	147	182.009	159.919	-14.592	1.00176.35	BS2
ATOM	33684	CG	LYS	B	147	183.233	160.787	-14.816	1.00176.35	BS2
ATOM	33685	CD	LYS	B	147	184.397	159.980	-15.376	1.00176.35	BS2
ATOM	33686	CE	LYS	B	147	185.665	160.826	-15.458	1.00176.35	BS2
ATOM	33687	NZ	LYS	B	147	186.857	160.024	-15.854	1.00176.35	BS2
ATOM	33688	C	LYS	B	147	179.607	159.779	-13.959	1.00 92.66	BS2
ATOM	33689	O	LYS	B	147	178.830	159.914	-14.906	1.00 92.66	BS2
ATOM	33690	N	TYR	B	148	179.391	158.914	-12.976	1.00 97.18	BS2
ATOM	33691	CA	TYR	B	148	178.244	158.016	-13.012	1.00 97.18	BS2
ATOM	33692	CB	TYR	B	148	178.758	156.579	-12.862	1.00120.34	BS2
ATOM	33693	CG	TYR	B	148	179.801	156.250	-13.912	1.00120.34	BS2
ATOM	33694	CD1	TYR	B	148	180.956	155.533	-13.596	1.00120.34	BS2
ATOM	33695	CE1	TYR	B	148	181.950	155.317	-14.558	1.00120.34	BS2
ATOM	33696	CD2	TYR	B	148	179.662	156.730	-15.213	1.00120.34	BS2
ATOM	33697	CE2	TYR	B	148	180.641	156.520	-16.172	1.00120.34	BS2
ATOM	33698	CZ	TYR	B	148	181.780	155.822	-15.845	1.00120.34	BS2
ATOM	33699	OH	TYR	B	148	182.746	155.673	-16.811	1.00120.34	BS2
ATOM	33700	C	TYR	B	148	177.167	158.323	-11.983	1.00 97.18	BS2
ATOM	33701	O	TYR	B	148	175.986	158.034	-12.187	1.00 97.18	BS2
ATOM	33702	N	LEU	B	149	177.576	158.932	-10.884	1.00 71.65	BS2
ATOM	33703	CA	LEU	B	149	176.636	159.259	-9.839	1.00 71.65	BS2
ATOM	33704	CB	LEU	B	149	177.215	158.809	-8.503	1.00 58.02	BS2
ATOM	33705	CG	LEU	B	149	177.415	157.303	-8.344	1.00 58.02	BS2
ATOM	33706	CD1	LEU	B	149	178.285	157.022	-7.128	1.00 58.02	BS2
ATOM	33707	CD2	LEU	B	149	176.062	156.630	-8.197	1.00 58.02	BS2
ATOM	33708	C	LEU	B	149	176.299	160.751	-9.806	1.00 71.65	BS2
ATOM	33709	O	LEU	B	149	175.853	161.278	-8.782	1.00 71.65	BS2
ATOM	33710	N	SER	B	150	176.498	161.441	-10.920	1.00 79.03	BS2
ATOM	33711	CA	SER	B	150	176.197	162.868	-10.947	1.00 79.03	BS2
ATOM	33712	CB	SER	B	150	176.569	163.483	-12.300	1.00101.79	BS2
ATOM	33713	CG	SER	B	150	175.691	163.042	-13.322	1.00101.79	BS2
ATOM	33714	C	SER	B	150	174.713	163.081	-10.686	1.00 79.03	BS2
ATOM	33715	O	SER	B	150	174.341	163.920	-9.866	1.00 79.03	BS2
ATOM	33716	N	GLY	B	151	173.879	162.305	-11.384	1.00 94.54	BS2
ATOM	33717	CA	GLY	B	151	172.433	162.411	-11.248	1.00 94.54	BS2



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ATOM	33718	C	GLY	B	151	171.790	161.412	-10.307	1.00	94.54	BS2
ATOM	33719	O	GLY	B	151	170.606	161.515	-9.989	1.00	94.54	BS2
ATOM	33720	N	PHE	B	152	172.562	160.433	-9.864	1.00	83.30	BS2
ATOM	33721	CA	PHE	B	152	172.039	159.447	-8.939	1.00	83.30	BS2
ATOM	33722	CB	PHE	B	152	172.744	158.117	-9.139	1.00	73.68	BS2
ATOM	33723	CG	PHE	B	152	172.037	156.972	-8.498	1.00	73.68	BS2
ATOM	33724	CD1	PHE	B	152	170.842	156.503	-9.026	1.00	73.68	BS2
ATOM	33725	CD2	PHE	B	152	172.559	156.366	-7.357	1.00	73.68	BS2
ATOM	33726	CE1	PHE	B	152	170.174	155.446	-8.432	1.00	73.68	BS2
ATOM	33727	CE2	PHE	B	152	171.898	155.305	-6.753	1.00	73.68	BS2
ATOM	33728	CZ	PHE	B	152	170.703	154.843	-7.292	1.00	73.68	BS2
ATOM	33729	C	PHE	B	152	172.279	159.949	-7.517	1.00	83.30	BS2
ATOM	33730	O	PHE	B	152	172.121	159.217	-6.539	1.00	83.30	BS2
ATOM	33731	N	ARG	B	153	172.672	161.212	-7.425	1.00	100.48	BS2
ATOM	33732	CA	ARG	B	153	172.950	161.868	-6.158	1.00	100.48	BS2
ATOM	33733	CB	ARG	B	153	173.528	163.246	-6.423	1.00	131.31	BS2
ATOM	33734	CG	ARG	B	153	174.975	163.263	-6.776	1.00	131.31	BS2
ATOM	33735	CD	ARG	B	153	175.768	163.611	-5.551	1.00	131.31	BS2
ATOM	33736	NE	ARG	B	153	176.983	164.326	-5.909	1.00	131.31	BS2
ATOM	33737	CZ	ARG	B	153	177.818	164.863	-5.030	1.00	131.31	BS2
ATOM	33738	NH1	ARG	B	153	177.572	164.768	-3.729	1.00	131.31	BS2
ATOM	33739	NH2	ARG	B	153	178.898	165.497	-5.457	1.00	131.31	BS2
ATOM	33740	C	ARG	B	153	171.695	162.041	-5.321	1.00	100.48	BS2
ATOM	33741	O	ARG	B	153	171.654	161.664	-4.148	1.00	100.48	BS2
ATOM	33742	N	LEU	B	154	170.680	162.631	-5.944	1.00	81.25	BS2
ATOM	33743	CA	LEU	B	154	169.404	162.924	-5.299	1.00	81.25	BS2
ATOM	33744	CB	LEU	B	154	168.438	163.485	-6.344	1.00	72.92	BS2
ATOM	33745	CG	LEU	B	154	169.076	164.522	-7.277	1.00	72.92	BS2
ATOM	33746	CD1	LEU	B	154	167.988	165.131	-8.149	1.00	72.92	BS2
ATOM	33747	CD2	LEU	B	154	169.802	165.603	-6.473	1.00	72.92	BS2
ATOM	33748	C	LEU	B	154	168.737	161.776	-4.533	1.00	81.25	BS2
ATOM	33749	O	LEU	B	154	168.558	161.860	-3.312	1.00	81.25	BS2
ATOM	33750	N	LEU	B	155	168.358	160.718	-5.241	1.00	74.01	BS2
ATOM	33751	CA	LEU	B	155	167.718	159.576	-4.601	1.00	74.01	BS2
ATOM	33752	CB	LEU	B	155	167.983	158.305	-5.393	1.00	52.98	BS2
ATOM	33753	CG	LEU	B	155	167.161	158.107	-6.656	1.00	52.98	BS2
ATOM	33754	CD1	LEU	B	155	167.381	156.695	-7.124	1.00	52.98	BS2
ATOM	33755	CD2	LEU	B	155	165.681	158.339	-6.383	1.00	52.98	BS2
ATOM	33756	C	LEU	B	155	168.172	159.327	-3.177	1.00	74.01	BS2
ATOM	33757	O	LEU	B	155	169.350	159.084	-2.936	1.00	74.01	BS2
ATOM	33758	N	LYS	B	156	167.246	159.389	-2.231	1.00	80.71	BS2
ATOM	33759	CA	LYS	B	156	167.588	159.114	-0.843	1.00	80.71	BS2
ATOM	33760	CB	LYS	B	156	167.040	160.199	0.090	1.00	172.45	BS2
ATOM	33761	CG	LYS	B	156	167.443	160.033	1.560	1.00	172.45	BS2
ATOM	33762	CD	LYS	B	156	166.526	159.070	2.313	1.00	172.45	BS2
ATOM	33763	CE	LYS	B	156	167.023	158.797	3.730	1.00	172.45	BS2
ATOM	33764	NZ	LYS	B	156	168.212	157.896	3.751	1.00	172.45	BS2
ATOM	33765	C	LYS	B	156	166.950	157.764	-0.529	1.00	80.71	BS2
ATOM	33766	O	LYS	B	156	167.405	157.031	0.349	1.00	80.71	BS2
ATOM	33767	N	ARG	B	157	165.888	157.450	-1.263	1.00	53.31	BS2
ATOM	33768	CA	ARG	B	157	165.178	156.187	-1.118	1.00	53.31	BS2
ATOM	33769	CB	ARG	B	157	163.822	156.404	-0.452	1.00	86.43	BS2
ATOM	33770	CG	ARG	B	157	162.866	157.217	-1.304	1.00	86.43	BS2
ATOM	33771	CD	ARG	B	157	161.512	157.377	-0.649	1.00	86.43	BS2
ATOM	33772	NE	ARG	B	157	161.605	157.912	0.707	1.00	86.43	BS2
ATOM	33773	CZ	ARG	B	157	160.559	158.328	1.415	1.00	86.43	BS2
ATOM	33774	NH1	ARG	B	157	159.339	158.274	0.894	1.00	86.43	BS2
ATOM	33775	NH2	ARG	B	157	160.729	158.802	2.643	1.00	86.43	BS2
ATOM	33776	C	ARG	B	157	164.970	155.747	-2.559	1.00	53.31	BS2
ATOM	33777	O	ARG	B	157	165.450	156.407	-3.481	1.00	53.31	BS2
ATOM	33778	N	LEU	B	158	164.263	154.645	-2.769	1.00	46.72	BS2
ATOM	33779	CA	LEU	B	158	164.014	154.197	-4.133	1.00	46.72	BS2
ATOM	33780	CB	LEU	B	158	163.401	152.809	-4.135	1.00	48.82	BS2
ATOM	33781	CG	LEU	B	158	164.388	151.653	-4.149	1.00	48.82	BS2
ATOM	33782	CD1	LEU	B	158	163.601	150.361	-4.246	1.00	48.82	BS2
ATOM	33783	CD2	LEU	B	158	165.335	151.788	-5.336	1.00	48.82	BS2
ATOM	33784	C	LEU	B	158	163.062	155.147	-4.830	1.00	46.72	BS2
ATOM	33785	O	LEU	B	158	162.152	155.679	-4.210	1.00	46.72	BS2
ATOM	33786	N	PRO	B	159	163.248	155.368	-6.135	1.00	45.82	BS2
ATOM	33787	CD	PRO	B	159	164.082	154.608	-7.082	1.00	92.24	BS2
ATOM	33788	CA	PRO	B	159	162.342	156.278	-6.846	1.00	45.82	BS2
ATOM	33789	CB	PRO	B	159	162.830	156.185	-8.286	1.00	92.24	BS2
ATOM	33790	CG	PRO	B	159	163.305	154.757	-8.373	1.00	92.24	BS2
ATOM	33791	C	PRO	B	159	160.881	155.838	-6.710	1.00	45.82	BS2
ATOM	33792	O	PRO	B	159	160.600	154.692	-6.381	1.00	45.82	BS2
ATOM	33793	N	ASP	B	160	159.949	156.743	-6.964	1.00	53.89	BS2
ATOM	33794	CA	ASP	B	160	158.532	156.400	-6.867	1.00	53.89	BS2



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ATOM	33795	CB	ASP	B	160	157.740	157.613	-6.380	1.00	92.06	BS2
ATOM	33796	CG	ASP	B	160	158.051	157.954	-4.942	1.00	92.06	BS2
ATOM	33797	OD1	ASP	B	160	157.484	157.287	-4.052	1.00	92.06	BS2
ATOM	33798	OD2	ASP	B	160	158.876	158.863	-4.698	1.00	92.06	BS2
ATOM	33799	C	ASP	B	160	158.030	155.943	-8.224	1.00	53.89	BS2
ATOM	33800	O	ASP	B	160	156.905	155.469	-8.377	1.00	53.89	BS2
ATOM	33801	N	ALA	B	161	158.896	156.096	-9.208	1.00	63.10	BS2
ATOM	33802	CA	ALA	B	161	158.589	155.714	-10.562	1.00	63.10	BS2
ATOM	33803	CB	ALA	B	161	157.439	156.542	-11.098	1.00	44.47	BS2
ATOM	33804	C	ALA	B	161	159.835	155.956	-11.386	1.00	63.10	BS2
ATOM	33805	O	ALA	B	161	160.781	156.602	-10.947	1.00	63.10	BS2
ATOM	33806	N	ILE	B	162	159.835	155.424	-12.590	1.00	51.21	BS2
ATOM	33807	CA	ILE	B	162	160.962	155.584	-13.457	1.00	51.21	BS2
ATOM	33808	CB	ILE	B	162	161.693	154.255	-13.607	1.00	64.25	BS2
ATOM	33809	CG2	ILE	B	162	162.372	154.147	-14.956	1.00	64.25	BS2
ATOM	33810	CG1	ILE	B	162	162.697	154.112	-12.481	1.00	64.25	BS2
ATOM	33811	CD1	ILE	B	162	163.537	152.873	-12.631	1.00	64.25	BS2
ATOM	33812	C	ILE	B	162	160.463	156.061	-14.795	1.00	51.21	BS2
ATOM	33813	O	ILE	B	162	159.505	155.506	-15.361	1.00	51.21	BS2
ATOM	33814	N	PHE	B	163	161.098	157.122	-15.274	1.00	96.23	BS2
ATOM	33815	CA	PHE	B	163	160.783	157.679	-16.572	1.00	96.23	BS2
ATOM	33816	CB	PHE	B	163	160.692	159.201	-16.518	1.00	69.58	BS2
ATOM	33817	CG	PHE	B	163	160.036	159.787	-17.713	1.00	69.58	BS2
ATOM	33818	CD1	PHE	B	163	158.968	160.651	-17.573	1.00	69.58	BS2
ATOM	33819	CD2	PHE	B	163	160.433	159.406	-18.988	1.00	69.58	BS2
ATOM	33820	CE1	PHE	B	163	158.289	161.127	-18.694	1.00	69.58	BS2
ATOM	33821	CE2	PHE	B	163	159.766	159.872	-20.116	1.00	69.58	BS2
ATOM	33822	CZ	PHE	B	163	158.688	160.735	-19.974	1.00	69.58	BS2
ATOM	33823	C	PHE	B	163	161.976	157.254	-17.406	1.00	96.23	BS2
ATOM	33824	O	PHE	B	163	163.088	157.745	-17.206	1.00	96.23	BS2
ATOM	33825	N	VAL	B	164	161.748	156.326	-18.327	1.00	64.22	BS2
ATOM	33826	CA	VAL	B	164	162.831	155.814	-19.151	1.00	64.22	BS2
ATOM	33827	CB	VAL	B	164	162.912	154.253	-19.023	1.00	36.84	BS2
ATOM	33828	CG1	VAL	B	164	162.510	153.554	-20.328	1.00	36.84	BS2
ATOM	33829	CG2	VAL	B	164	164.300	153.856	-18.595	1.00	36.84	BS2
ATOM	33830	C	VAL	B	164	162.715	156.230	-20.610	1.00	64.22	BS2
ATOM	33831	O	VAL	B	164	161.613	156.345	-21.159	1.00	64.22	BS2
ATOM	33832	N	VAL	B	165	163.863	156.470	-21.228	1.00	97.49	BS2
ATOM	33833	CA	VAL	B	165	163.897	156.865	-22.621	1.00	97.49	BS2
ATOM	33834	CB	VAL	B	165	165.238	157.473	-22.972	1.00	71.70	BS2
ATOM	33835	CG1	VAL	B	165	165.137	158.158	-24.308	1.00	71.70	BS2
ATOM	33836	CG2	VAL	B	165	165.662	158.451	-21.890	1.00	71.70	BS2
ATOM	33837	C	VAL	B	165	163.655	155.635	-23.494	1.00	97.49	BS2
ATOM	33838	O	VAL	B	165	162.513	155.348	-23.849	1.00	97.49	BS2
ATOM	33839	N	ASP	B	166	164.716	154.909	-23.842	1.00	79.65	BS2
ATOM	33840	CA	ASP	B	166	164.555	153.698	-24.651	1.00	79.65	BS2
ATOM	33841	CB	ASP	B	166	165.733	153.510	-25.611	1.00	116.87	BS2
ATOM	33842	CG	ASP	B	166	165.412	152.545	-26.740	1.00	116.87	BS2
ATOM	33843	OD1	ASP	B	166	164.519	152.856	-27.553	1.00	116.87	BS2
ATOM	33844	OD2	ASP	B	166	166.046	151.474	-26.817	1.00	116.87	BS2
ATOM	33845	C	ASP	B	166	164.454	152.493	-23.711	1.00	79.65	BS2
ATOM	33846	O	ASP	B	166	165.459	152.017	-23.169	1.00	79.65	BS2
ATOM	33847	N	PRO	B	167	163.229	151.977	-23.521	1.00	81.47	BS2
ATOM	33848	CD	PRO	B	167	162.095	152.221	-24.429	1.00	42.57	BS2
ATOM	33849	CA	PRO	B	167	162.945	150.833	-22.649	1.00	81.47	BS2
ATOM	33850	CB	PRO	B	167	161.469	150.567	-22.907	1.00	42.57	BS2
ATOM	33851	CG	PRO	B	167	161.342	150.911	-24.354	1.00	42.57	BS2
ATOM	33852	C	PRO	B	167	163.805	149.623	-22.962	1.00	81.47	BS2
ATOM	33853	O	PRO	B	167	164.243	148.912	-22.059	1.00	81.47	BS2
ATOM	33854	N	THR	B	168	164.039	149.388	-24.247	1.00	65.67	BS2
ATOM	33855	CA	THR	B	168	164.847	148.254	-24.665	1.00	65.67	BS2
ATOM	33856	CB	THR	B	168	164.788	148.058	-26.169	1.00	63.47	BS2
ATOM	33857	OG1	THR	B	168	163.423	148.097	-26.591	1.00	63.47	BS2
ATOM	33858	CG2	THR	B	168	165.396	146.723	-26.551	1.00	63.47	BS2
ATOM	33859	C	THR	B	168	166.293	148.490	-24.293	1.00	65.67	BS2
ATOM	33860	O	THR	B	168	166.896	147.700	-23.572	1.00	65.67	BS2
ATOM	33861	N	LYS	B	169	166.841	149.588	-24.801	1.00	74.56	BS2
ATOM	33862	CA	LYS	B	169	168.225	149.956	-24.544	1.00	74.56	BS2
ATOM	33863	CB	LYS	B	169	168.505	151.336	-25.158	1.00	97.04	BS2
ATOM	33864	CG	LYS	B	169	169.974	151.730	-25.269	1.00	97.04	BS2
ATOM	33865	CD	LYS	B	169	170.560	152.118	-23.921	1.00	97.04	BS2
ATOM	33866	CE	LYS	B	169	171.968	152.710	-24.040	1.00	97.04	BS2
ATOM	33867	NZ	LYS	B	169	173.030	151.723	-24.403	1.00	97.04	BS2
ATOM	33868	C	LYS	B	169	168.458	149.980	-23.038	1.00	74.56	BS2
ATOM	33869	O	LYS	B	169	169.549	149.654	-22.562	1.00	74.56	BS2
ATOM	33870	N	GLU	B	170	167.412	150.336	-22.292	1.00	71.87	BS2
ATOM	33871	CA	GLU	B	170	167.490	150.434	-20.841	1.00	71.87	BS2



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ATOM	33872	CB	GLU	B	170	166.979	151.800	-20.420	1.00	68.79	BS2
ATOM	33873	CG	GLU	B	170	168.041	152.667	-19.814	1.00	68.79	BS2
ATOM	33874	CD	GLU	B	170	169.131	153.054	-20.792	1.00	68.79	BS2
ATOM	33875	OE1	GLU	B	170	168.879	153.936	-21.658	1.00	68.79	BS2
ATOM	33876	OE2	GLU	B	170	170.240	152.465	-20.684	1.00	68.79	BS2
ATOM	33877	C	GLU	B	170	166.712	149.360	-20.094	1.00	71.87	BS2
ATOM	33878	O	GLU	B	170	166.195	149.609	-19.005	1.00	71.87	BS2
ATOM	33879	N	ALA	B	171	166.653	148.159	-20.659	1.00	68.52	BS2
ATOM	33880	CA	ALA	B	171	165.889	147.071	-20.054	1.00	68.52	BS2
ATOM	33881	CB	ALA	B	171	165.753	145.935	-21.043	1.00	67.40	BS2
ATOM	33882	C	ALA	B	171	166.383	146.537	-18.713	1.00	68.52	BS2
ATOM	33883	O	ALA	B	171	165.637	145.862	-17.998	1.00	68.52	BS2
ATOM	33884	N	ILE	B	172	167.629	146.816	-18.361	1.00	56.68	BS2
ATOM	33885	CA	ILE	B	172	168.119	146.340	-17.079	1.00	56.68	BS2
ATOM	33886	CB	ILE	B	172	169.638	146.214	-17.067	1.00	61.72	BS2
ATOM	33887	CG2	ILE	B	172	170.101	145.781	-15.698	1.00	61.72	BS2
ATOM	33888	CG1	ILE	B	172	170.068	145.179	-18.106	1.00	61.72	BS2
ATOM	33889	CD1	ILE	B	172	171.539	144.814	-18.057	1.00	61.72	BS2
ATOM	33890	C	ILE	B	172	167.679	147.309	-15.991	1.00	56.68	BS2
ATOM	33891	O	ILE	B	172	167.760	147.020	-14.795	1.00	56.68	BS2
ATOM	33892	N	ALA	B	173	167.218	148.477	-16.413	1.00	64.09	BS2
ATOM	33893	CA	ALA	B	173	166.735	149.455	-15.462	1.00	64.09	BS2
ATOM	33894	CB	ALA	B	173	166.775	150.844	-16.065	1.00	87.82	BS2
ATOM	33895	C	ALA	B	173	165.306	149.010	-15.229	1.00	64.09	BS2
ATOM	33896	O	ALA	B	173	164.898	148.754	-14.102	1.00	64.09	BS2
ATOM	33897	N	VAL	B	174	164.561	148.891	-16.321	1.00	60.35	BS2
ATOM	33898	CA	VAL	B	174	163.171	148.458	-16.264	1.00	60.35	BS2
ATOM	33899	CB	VAL	B	174	162.621	148.183	-17.681	1.00	31.31	BS2
ATOM	33900	CG1	VAL	B	174	161.235	147.559	-17.598	1.00	31.31	BS2
ATOM	33901	CG2	VAL	B	174	162.575	149.458	-18.470	1.00	31.31	BS2
ATOM	33902	C	VAL	B	174	163.009	147.177	-15.438	1.00	60.35	BS2
ATOM	33903	O	VAL	B	174	162.090	147.063	-14.616	1.00	60.35	BS2
ATOM	33904	N	ARG	B	175	163.897	146.213	-15.669	1.00	62.29	BS2
ATOM	33905	CA	ARG	B	175	163.836	144.950	-14.951	1.00	62.29	BS2
ATOM	33906	CB	ARG	B	175	165.059	144.095	-15.297	1.00	113.76	BS2
ATOM	33907	CG	ARG	B	175	164.983	142.634	-14.859	1.00	113.76	BS2
ATOM	33908	CD	ARG	B	175	166.131	141.837	-15.472	1.00	113.76	BS2
ATOM	33909	NE	ARG	B	175	166.055	141.822	-16.935	1.00	113.76	BS2
ATOM	33910	CZ	ARG	B	175	167.083	141.564	-17.744	1.00	113.76	BS2
ATOM	33911	NH1	ARG	B	175	168.281	141.300	-17.233	1.00	113.76	BS2
ATOM	33912	NH2	ARG	B	175	166.919	141.572	-19.067	1.00	113.76	BS2
ATOM	33913	C	ARG	B	175	163.778	145.232	-13.452	1.00	62.29	BS2
ATOM	33914	O	ARG	B	175	162.814	144.861	-12.780	1.00	62.29	BS2
ATOM	33915	N	GLU	B	176	164.799	145.907	-12.934	1.00	46.52	BS2
ATOM	33916	CA	GLU	B	176	164.843	146.226	-11.515	1.00	46.52	BS2
ATOM	33917	CB	GLU	B	176	166.045	147.129	-11.211	1.00	79.43	BS2
ATOM	33918	CG	GLU	B	176	167.378	146.390	-11.273	1.00	79.43	BS2
ATOM	33919	CD	GLU	B	176	168.532	147.157	-10.626	1.00	79.43	BS2
ATOM	33920	OE1	GLU	B	176	168.291	147.902	-9.655	1.00	79.43	BS2
ATOM	33921	OE2	GLU	B	176	169.689	147.000	-11.081	1.00	79.43	BS2
ATOM	33922	C	GLU	B	176	163.547	146.875	-11.040	1.00	46.52	BS2
ATOM	33923	O	GLU	B	176	162.962	146.438	-10.051	1.00	46.52	BS2
ATOM	33924	N	ALA	B	177	163.094	147.907	-11.744	1.00	49.33	BS2
ATOM	33925	CA	ALA	B	177	161.858	148.594	-11.375	1.00	49.33	BS2
ATOM	33926	CB	ALA	B	177	161.399	149.492	-12.513	1.00	77.25	BS2
ATOM	33927	C	ALA	B	177	160.783	147.558	-11.062	1.00	49.33	BS2
ATOM	33928	O	ALA	B	177	160.322	147.454	-9.925	1.00	49.33	BS2
ATOM	33929	N	ARG	B	178	160.393	146.806	-12.087	1.00	33.54	BS2
ATOM	33930	CA	ARG	B	178	159.406	145.743	-11.964	1.00	33.54	BS2
ATOM	33931	CB	ARG	B	178	159.520	144.805	-13.157	1.00	62.77	BS2
ATOM	33932	CG	ARG	B	178	158.372	144.852	-14.099	1.00	62.77	BS2
ATOM	33933	CD	ARG	B	178	158.189	146.236	-14.632	1.00	62.77	BS2
ATOM	33934	NE	ARG	B	178	157.321	146.205	-15.796	1.00	62.77	BS2
ATOM	33935	CZ	ARG	B	178	156.106	145.669	-15.805	1.00	62.77	BS2
ATOM	33936	NH1	ARG	B	178	155.598	145.112	-14.711	1.00	62.77	BS2
ATOM	33937	NH2	ARG	B	178	155.398	145.688	-16.921	1.00	62.77	BS2
ATOM	33938	C	ARG	B	178	159.587	144.908	-10.694	1.00	33.54	BS2
ATOM	33939	O	ARG	B	178	158.733	144.906	-9.820	1.00	33.54	BS2
ATOM	33940	N	LYS	B	179	160.691	144.173	-10.615	1.00	47.27	BS2
ATOM	33941	CA	LYS	B	179	160.957	143.325	-9.461	1.00	47.27	BS2
ATOM	33942	CB	LYS	B	179	162.422	142.867	-9.461	1.00	62.98	BS2
ATOM	33943	CG	LYS	B	179	162.823	142.089	-8.211	1.00	62.98	BS2
ATOM	33944	CD	LYS	B	179	164.205	141.489	-8.333	1.00	62.98	BS2
ATOM	33945	CE	LYS	B	179	164.221	140.394	-9.385	1.00	62.98	BS2
ATOM	33946	NZ	LYS	B	179	165.601	139.938	-9.709	1.00	62.98	BS2
ATOM	33947	C	LYS	B	179	160.646	144.064	-8.165	1.00	47.27	BS2
ATOM	33948	O	LYS	B	179	160.263	143.469	-7.161	1.00	47.27	BS2



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ATOM	33949	N	LEU	B	180	160.795	145.373	-8.198	1.00	38.53	BS2
ATOM	33950	CA	LEU	B	180	160.542	146.167	-7.019	1.00	38.53	BS2
ATOM	33951	CB	LEU	B	180	161.623	147.234	-6.911	1.00	43.35	BS2
ATOM	33952	CG	LEU	B	180	162.983	146.618	-6.657	1.00	43.35	BS2
ATOM	33953	CD1	LEU	B	180	164.066	147.664	-6.832	1.00	43.35	BS2
ATOM	33954	CD2	LEU	B	180	162.991	146.022	-5.258	1.00	43.35	BS2
ATOM	33955	C	LEU	B	180	159.161	146.824	-7.045	1.00	38.53	BS2
ATOM	33956	O	LEU	B	180	158.776	147.541	-6.114	1.00	38.53	BS2
ATOM	33957	N	PHE	B	181	158.410	146.560	-8.103	1.00	72.47	BS2
ATOM	33958	CA	PHE	B	181	157.102	147.164	-8.263	1.00	72.47	BS2
ATOM	33959	CB	PHE	B	181	156.149	146.802	-7.128	1.00	73.78	BS2
ATOM	33960	CG	PHE	B	181	155.999	145.337	-6.899	1.00	73.78	BS2
ATOM	33961	CD1	PHE	B	181	156.882	144.659	-6.064	1.00	73.78	BS2
ATOM	33962	CD2	PHE	B	181	154.969	144.632	-7.512	1.00	73.78	BS2
ATOM	33963	CE1	PHE	B	181	156.742	143.295	-5.837	1.00	73.78	BS2
ATOM	33964	CE2	PHE	B	181	154.815	143.269	-7.297	1.00	73.78	BS2
ATOM	33965	CZ	PHE	B	181	155.703	142.596	-6.456	1.00	73.78	BS2
ATOM	33966	C	PHE	B	181	157.338	148.656	-8.220	1.00	72.47	BS2
ATOM	33967	O	PHE	B	181	157.102	149.294	-7.205	1.00	72.47	BS2
ATOM	33968	N	ILE	B	182	157.846	149.203	-9.311	1.00	41.86	BS2
ATOM	33969	CA	ILE	B	182	158.074	150.626	-9.398	1.00	41.86	BS2
ATOM	33970	CB	ILE	B	182	159.546	150.945	-9.351	1.00	26.21	BS2
ATOM	33971	CG2	ILE	B	182	159.738	152.452	-9.483	1.00	26.21	BS2
ATOM	33972	CG1	ILE	B	182	160.153	150.417	-8.055	1.00	26.21	BS2
ATOM	33973	CD1	ILE	B	182	161.514	151.060	-7.699	1.00	26.21	BS2
ATOM	33974	C	ILE	B	182	157.523	151.120	-10.725	1.00	41.86	BS2
ATOM	33975	O	ILE	B	182	158.053	150.788	-11.775	1.00	41.86	BS2
ATOM	33976	N	PRO	B	183	156.456	151.926	-10.702	1.00	55.29	BS2
ATOM	33977	CD	PRO	B	183	155.884	152.653	-9.557	1.00	60.78	BS2
ATOM	33978	CA	PRO	B	183	155.894	152.424	-11.963	1.00	55.29	BS2
ATOM	33979	CB	PRO	B	183	155.186	153.705	-11.540	1.00	60.78	BS2
ATOM	33980	CG	PRO	B	183	154.694	153.357	-10.186	1.00	60.78	BS2
ATOM	33981	C	PRO	B	183	156.957	152.682	-13.028	1.00	55.29	BS2
ATOM	33982	O	PRO	B	183	158.003	153.275	-12.763	1.00	55.29	BS2
ATOM	33983	N	VAL	B	184	156.685	152.226	-14.237	1.00	35.72	BS2
ATOM	33984	CA	VAL	B	184	157.627	152.416	-15.316	1.00	35.72	BS2
ATOM	33985	CB	VAL	B	184	158.159	151.027	-15.819	1.00	59.72	BS2
ATOM	33986	CG1	VAL	B	184	157.875	150.826	-17.314	1.00	59.72	BS2
ATOM	33987	CG2	VAL	B	184	159.653	150.913	-15.519	1.00	59.72	BS2
ATOM	33988	C	VAL	B	184	156.979	153.232	-16.443	1.00	35.72	BS2
ATOM	33989	O	VAL	B	184	155.927	152.878	-16.996	1.00	35.72	BS2
ATOM	33990	N	ILE	B	185	157.615	154.352	-16.750	1.00	68.79	BS2
ATOM	33991	CA	ILE	B	185	157.142	155.244	-17.793	1.00	68.79	BS2
ATOM	33992	CB	ILE	B	185	157.113	156.685	-17.293	1.00	65.08	BS2
ATOM	33993	CG2	ILE	B	185	156.129	157.506	-18.111	1.00	65.08	BS2
ATOM	33994	CG1	ILE	B	185	156.745	156.689	-15.813	1.00	65.08	BS2
ATOM	33995	CD1	ILE	B	185	156.861	158.025	-15.169	1.00	65.08	BS2
ATOM	33996	C	ILE	B	185	158.192	155.151	-18.872	1.00	68.79	BS2
ATOM	33997	O	ILE	B	185	159.369	154.930	-18.571	1.00	68.79	BS2
ATOM	33998	N	ALA	B	186	157.797	155.324	-20.125	1.00	64.09	BS2
ATOM	33999	CA	ALA	B	186	158.794	155.249	-21.176	1.00	64.09	BS2
ATOM	34000	CB	ALA	B	186	159.334	153.843	-21.255	1.00	40.86	BS2
ATOM	34001	C	ALA	B	186	158.374	155.709	-22.561	1.00	64.09	BS2
ATOM	34002	O	ALA	B	186	157.310	155.343	-23.076	1.00	64.09	BS2
ATOM	34003	N	LEU	B	187	159.229	156.533	-23.151	1.00	71.89	BS2
ATOM	34004	CA	LEU	B	187	159.007	157.013	-24.496	1.00	71.89	BS2
ATOM	34005	CB	LEU	B	187	159.930	158.199	-24.775	1.00	60.15	BS2
ATOM	34006	CG	LEU	B	187	159.741	159.014	-26.062	1.00	60.15	BS2
ATOM	34007	CD1	LEU	B	187	159.958	158.159	-27.299	1.00	60.15	BS2
ATOM	34008	CD2	LEU	B	187	158.345	159.602	-26.065	1.00	60.15	BS2
ATOM	34009	C	LEU	B	187	159.452	155.798	-25.303	1.00	71.89	BS2
ATOM	34010	O	LEU	B	187	160.600	155.719	-25.726	1.00	71.89	BS2
ATOM	34011	N	ALA	B	188	158.562	154.833	-25.492	1.00	70.52	BS2
ATOM	34012	CA	ALA	B	188	158.928	153.630	-26.231	1.00	70.52	BS2
ATOM	34013	CB	ALA	B	188	158.530	152.408	-25.436	1.00	100.34	BS2
ATOM	34014	C	ALA	B	188	158.303	153.570	-27.625	1.00	70.52	BS2
ATOM	34015	O	ALA	B	188	157.337	154.282	-27.910	1.00	70.52	BS2
ATOM	34016	N	ASP	B	189	158.859	152.727	-28.497	1.00	80.30	BS2
ATOM	34017	CA	ASP	B	189	158.324	152.593	-29.849	1.00	80.30	BS2
ATOM	34018	CB	ASP	B	189	158.954	153.631	-30.782	1.00	116.27	BS2
ATOM	34019	CG	ASP	B	189	160.357	153.268	-31.190	1.00	116.27	BS2
ATOM	34020	OD1	ASP	B	189	161.139	152.873	-30.303	1.00	116.27	BS2
ATOM	34021	OD2	ASP	B	189	160.673	153.387	-32.393	1.00	116.27	BS2
ATOM	34022	C	ASP	B	189	158.493	151.203	-30.446	1.00	80.30	BS2
ATOM	34023	O	ASP	B	189	158.747	150.237	-29.736	1.00	80.30	BS2
ATOM	34024	N	THR	B	190	158.347	151.129	-31.763	1.00	59.80	BS2
ATOM	34025	CA	THR	B	190	158.434	149.894	-32.532	1.00	59.80	BS2



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ATOM	34026	CB	THR	B	190	158.742	150.225	-33.990	1.00	67.16	BS2
ATOM	34027	OG1	THR	B	190	157.653	150.974	-34.530	1.00	67.16	BS2
ATOM	34028	CG2	THR	B	190	158.928	148.962	-34.814	1.00	67.16	BS2
ATOM	34029	C	THR	B	190	159.391	148.783	-32.091	1.00	59.80	BS2
ATOM	34030	O	THR	B	190	159.041	147.596	-32.160	1.00	59.80	BS2
ATOM	34031	N	ASP	B	191	160.589	149.150	-31.644	1.00	66.03	BS2
ATOM	34032	CA	ASP	B	191	161.585	148.157	-31.244	1.00	66.03	BS2
ATOM	34033	CB	ASP	B	191	163.000	148.741	-31.409	1.00	115.33	BS2
ATOM	34034	CG	ASP	B	191	163.266	149.936	-30.490	1.00	115.33	BS2
ATOM	34035	OD1	ASP	B	191	162.389	150.816	-30.381	1.00	115.33	BS2
ATOM	34036	OD2	ASP	B	191	164.359	150.012	-29.887	1.00	115.33	BS2
ATOM	34037	C	ASP	B	191	161.471	147.549	-29.855	1.00	66.03	BS2
ATOM	34038	O	ASP	B	191	162.354	146.805	-29.462	1.00	66.03	BS2
ATOM	34039	N	SER	B	192	160.409	147.828	-29.106	1.00	57.04	BS2
ATOM	34040	CA	SER	B	192	160.325	147.270	-27.753	1.00	57.04	BS2
ATOM	34041	CB	SER	B	192	160.815	148.301	-26.730	1.00	109.31	BS2
ATOM	34042	OG	SER	B	192	160.251	149.575	-26.965	1.00	109.31	BS2
ATOM	34043	C	SER	B	192	159.003	146.689	-27.258	1.00	57.04	BS2
ATOM	34044	O	SER	B	192	157.934	146.912	-27.836	1.00	57.04	BS2
ATOM	34045	N	ASP	B	193	159.107	145.947	-26.155	1.00	64.23	BS2
ATOM	34046	CA	ASP	B	193	157.965	145.293	-25.534	1.00	64.23	BS2
ATOM	34047	CB	ASP	B	193	158.425	144.215	-24.561	1.00	94.60	BS2
ATOM	34048	CG	ASP	B	193	157.294	143.305	-24.135	1.00	94.60	BS2
ATOM	34049	OD1	ASP	B	193	156.193	143.823	-23.834	1.00	94.60	BS2
ATOM	34050	OD2	ASP	B	193	157.513	142.074	-24.102	1.00	94.60	BS2
ATOM	34051	C	ASP	B	193	157.149	146.305	-24.773	1.00	64.23	BS2
ATOM	34052	O	ASP	B	193	157.558	146.763	-23.710	1.00	64.23	BS2
ATOM	34053	N	PRO	B	194	155.972	146.654	-25.299	1.00	51.03	BS2
ATOM	34054	CD	PRO	B	194	155.336	146.018	-26.468	1.00	47.74	BS2
ATOM	34055	CA	PRO	B	194	155.070	147.625	-24.678	1.00	51.03	BS2
ATOM	34056	CB	PRO	B	194	154.000	147.812	-25.746	1.00	47.74	BS2
ATOM	34057	CG	PRO	B	194	153.883	146.429	-26.321	1.00	47.74	BS2
ATOM	34058	C	PRO	B	194	154.492	147.080	-23.380	1.00	51.03	BS2
ATOM	34059	O	PRO	B	194	154.273	147.815	-22.413	1.00	51.03	BS2
ATOM	34060	N	ASP	B	195	154.257	145.771	-23.371	1.00	57.70	BS2
ATOM	34061	CA	ASP	B	195	153.680	145.112	-22.219	1.00	57.70	BS2
ATOM	34062	CB	ASP	B	195	153.487	143.627	-22.515	1.00	130.76	BS2
ATOM	34063	CG	ASP	B	195	152.487	143.389	-23.629	1.00	130.76	BS2
ATOM	34064	OD1	ASP	B	195	151.394	143.993	-23.585	1.00	130.76	BS2
ATOM	34065	OD2	ASP	B	195	152.786	142.598	-24.546	1.00	130.76	BS2
ATOM	34066	C	ASP	B	195	154.466	145.299	-20.936	1.00	57.70	BS2
ATOM	34067	O	ASP	B	195	153.921	145.097	-19.858	1.00	57.70	BS2
ATOM	34068	N	LEU	B	196	155.729	145.703	-21.040	1.00	33.51	BS2
ATOM	34069	CA	LEU	B	196	156.543	145.905	-19.842	1.00	33.51	BS2
ATOM	34070	CB	LEU	B	196	157.992	145.474	-20.072	1.00	52.90	BS2
ATOM	34071	CG	LEU	B	196	158.252	144.175	-20.833	1.00	52.90	BS2
ATOM	34072	CD1	LEU	B	196	159.644	143.687	-20.487	1.00	52.90	BS2
ATOM	34073	CD2	LEU	B	196	157.221	143.119	-20.470	1.00	52.90	BS2
ATOM	34074	C	LEU	B	196	156.541	147.348	-19.362	1.00	33.51	BS2
ATOM	34075	O	LEU	B	196	157.049	147.654	-18.279	1.00	33.51	BS2
ATOM	34076	N	VAL	B	197	155.990	148.244	-20.168	1.00	54.66	BS2
ATOM	34077	CA	VAL	B	197	155.944	149.641	-19.770	1.00	54.66	BS2
ATOM	34078	CB	VAL	B	197	156.096	150.582	-20.967	1.00	56.23	BS2
ATOM	34079	CG1	VAL	B	197	156.555	151.954	-20.491	1.00	56.23	BS2
ATOM	34080	CG2	VAL	B	197	157.068	149.996	-21.959	1.00	56.23	BS2
ATOM	34081	C	VAL	B	197	154.586	149.865	-19.141	1.00	54.66	BS2
ATOM	34082	O	VAL	B	197	153.561	149.466	-19.699	1.00	54.66	BS2
ATOM	34083	N	ASP	B	198	154.581	150.496	-17.975	1.00	61.60	BS2
ATOM	34084	CA	ASP	B	198	153.342	150.753	-17.258	1.00	61.60	BS2
ATOM	34085	CB	ASP	B	198	153.657	150.961	-15.781	1.00	72.05	BS2
ATOM	34086	CG	ASP	B	198	154.497	149.841	-15.209	1.00	72.05	BS2
ATOM	34087	OD1	ASP	B	198	154.104	148.666	-15.378	1.00	72.05	BS2
ATOM	34088	OD2	ASP	B	198	155.545	150.131	-14.590	1.00	72.05	BS2
ATOM	34089	C	ASP	B	198	152.597	151.957	-17.825	1.00	61.60	BS2
ATOM	34090	O	ASP	B	198	151.372	151.953	-17.923	1.00	61.60	BS2
ATOM	34091	N	TYR	B	199	153.354	152.982	-18.196	1.00	89.06	BS2
ATOM	34092	CA	TYR	B	199	152.803	154.203	-18.768	1.00	89.06	BS2
ATOM	34093	CB	TYR	B	199	152.912	155.334	-17.755	1.00	69.52	BS2
ATOM	34094	CG	TYR	B	199	152.107	155.074	-16.506	1.00	69.52	BS2
ATOM	34095	CD1	TYR	B	199	152.713	155.041	-15.255	1.00	69.52	BS2
ATOM	34096	CE1	TYR	B	199	151.970	154.790	-14.105	1.00	69.52	BS2
ATOM	34097	CD2	TYR	B	199	150.734	154.852	-16.578	1.00	69.52	BS2
ATOM	34098	CE2	TYR	B	199	149.980	154.606	-15.437	1.00	69.52	BS2
ATOM	34099	CZ	TYR	B	199	150.605	154.575	-14.203	1.00	69.52	BS2
ATOM	34100	OH	TYR	B	199	149.867	154.321	-13.071	1.00	69.52	BS2
ATOM	34101	C	TYR	B	199	153.635	154.515	-19.996	1.00	89.06	BS2
ATOM	34102	O	TYR	B	199	154.751	155.025	-19.881	1.00	89.06	BS2



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ATOM	34103	N	ILE	B	200	153.095	154.205	-21.170	1.00	73.32	BS2
ATOM	34104	CA	ILE	B	200	153.821	154.414	-22.418	1.00	73.32	BS2
ATOM	34105	CB	ILE	B	200	153.453	153.326	-23.467	1.00108.33		BS2
ATOM	34106	CG2	ILE	B	200	154.065	153.646	-24.816	1.00108.33		BS2
ATOM	34107	CG1	ILE	B	200	153.976	151.969	-23.024	1.00108.33		BS2
ATOM	34108	CD1	ILE	B	200	153.754	150.882	-24.055	1.00108.33		BS2
ATOM	34109	C	ILE	B	200	153.608	155.761	-23.085	1.00	73.32	BS2
ATOM	34110	O	ILE	B	200	152.600	156.425	-22.865	1.00	73.32	BS2
ATOM	34111	N	ILE	B	201	154.596	156.152	-23.887	1.00	77.06	BS2
ATOM	34112	CA	ILE	B	201	154.557	157.362	-24.701	1.00	77.06	BS2
ATOM	34113	CB	ILE	B	201	155.434	158.514	-24.151	1.00	75.13	BS2
ATOM	34114	CG2	ILE	B	201	155.292	159.733	-25.045	1.00	75.13	BS2
ATOM	34115	CG1	ILE	B	201	154.980	158.916	-22.750	1.00	75.13	BS2
ATOM	34116	CD1	ILE	B	201	155.819	160.031	-22.138	1.00	75.13	BS2
ATOM	34117	C	ILE	B	201	155.172	156.827	-25.989	1.00	77.06	BS2
ATOM	34118	O	ILE	B	201	156.358	157.007	-26.254	1.00	77.06	BS2
ATOM	34119	N	PRO	B	202	154.365	156.117	-26.785	1.00	58.14	BS2
ATOM	34120	CD	PRO	B	202	152.910	155.961	-26.612	1.00	46.47	BS2
ATOM	34121	CA	PRO	B	202	154.802	155.529	-28.049	1.00	58.14	BS2
ATOM	34122	CB	PRO	B	202	153.588	154.716	-28.492	1.00	46.47	BS2
ATOM	34123	CG	PRO	B	202	152.458	155.538	-27.997	1.00	46.47	BS2
ATOM	34124	C	PRO	B	202	155.190	156.591	-29.052	1.00	58.14	BS2
ATOM	34125	O	PRO	B	202	154.341	157.160	-29.733	1.00	58.14	BS2
ATOM	34126	N	GLY	B	203	156.485	156.858	-29.130	1.00	88.08	BS2
ATOM	34127	CA	GLY	B	203	156.979	157.858	-30.052	1.00	88.08	BS2
ATOM	34128	C	GLY	B	203	158.428	157.580	-30.362	1.00	88.08	BS2
ATOM	34129	O	GLY	B	203	158.999	156.633	-29.828	1.00	88.08	BS2
ATOM	34130	N	ASN	B	204	159.025	158.410	-31.209	1.00	69.40	BS2
ATOM	34131	CA	ASN	B	204	160.420	158.254	-31.611	1.00	69.40	BS2
ATOM	34132	CB	ASN	B	204	160.834	159.518	-32.366	1.00149.85		BS2
ATOM	34133	CG	ASN	B	204	162.020	159.295	-33.270	1.00149.85		BS2
ATOM	34134	OD1	ASN	B	204	162.378	160.162	-34.063	1.00149.85		BS2
ATOM	34135	ND2	ASN	B	204	162.643	158.131	-33.154	1.00149.85		BS2
ATOM	34136	C	ASN	B	204	161.425	157.944	-30.462	1.00	69.40	BS2
ATOM	34137	O	ASN	B	204	161.827	158.846	-29.721	1.00	69.40	BS2
ATOM	34138	N	ASP	B	205	161.831	156.670	-30.327	1.00	83.43	BS2
ATOM	34139	CA	ASP	B	205	162.784	156.251	-29.281	1.00	83.43	BS2
ATOM	34140	CB	ASP	B	205	162.912	154.701	-29.187	1.00	61.51	BS2
ATOM	34141	CG	ASP	B	205	163.676	154.055	-30.382	1.00	61.51	BS2
ATOM	34142	OD1	ASP	B	205	163.232	154.211	-31.531	1.00	61.51	BS2
ATOM	34143	OD2	ASP	B	205	164.705	153.365	-30.172	1.00	61.51	BS2
ATOM	34144	C	ASP	B	205	164.156	156.860	-29.522	1.00	83.43	BS2
ATOM	34145	O	ASP	B	205	164.957	156.986	-28.607	1.00	83.43	BS2
ATOM	34146	N	ASP	B	206	164.414	157.237	-30.765	1.00126.52		BS2
ATOM	34147	CA	ASP	B	206	165.680	157.839	-31.136	1.00126.52		BS2
ATOM	34148	CB	ASP	B	206	166.297	157.047	-32.286	1.00178.65		BS2
ATOM	34149	CG	ASP	B	206	167.688	157.508	-32.623	1.00178.65		BS2
ATOM	34150	OD1	ASP	B	206	168.586	157.340	-31.773	1.00178.65		BS2
ATOM	34151	OD2	ASP	B	206	167.883	158.042	-33.735	1.00178.65		BS2
ATOM	34152	C	ASP	B	206	165.391	159.275	-31.570	1.00126.52		BS2
ATOM	34153	O	ASP	B	206	164.230	159.677	-31.618	1.00126.52		BS2
ATOM	34154	N	ALA	B	207	166.434	160.049	-31.861	1.00	76.09	BS2
ATOM	34155	CA	ALA	B	207	166.269	161.436	-32.315	1.00	76.09	BS2
ATOM	34156	CB	ALA	B	207	165.249	161.497	-33.456	1.00110.04		BS2
ATOM	34157	C	ALA	B	207	165.887	162.456	-31.245	1.00	76.09	BS2
ATOM	34158	O	ALA	B	207	164.830	162.367	-30.618	1.00	76.09	BS2
ATOM	34159	N	ILE	B	208	166.752	163.449	-31.080	1.00	71.80	BS2
ATOM	34160	CA	ILE	B	208	166.553	164.509	-30.107	1.00	71.80	BS2
ATOM	34161	CB	ILE	B	208	167.719	165.511	-30.162	1.00126.37		BS2
ATOM	34162	CG2	ILE	B	208	167.366	166.786	-29.400	1.00126.37		BS2
ATOM	34163	CG1	ILE	B	208	168.975	164.850	-29.595	1.00126.37		BS2
ATOM	34164	CD1	ILE	B	208	170.158	165.780	-29.458	1.00126.37		BS2
ATOM	34165	C	ILE	B	208	165.244	165.269	-30.269	1.00	71.80	BS2
ATOM	34166	O	ILE	B	208	164.373	165.184	-29.407	1.00	71.80	BS2
ATOM	34167	N	ARG	B	209	165.114	166.018	-31.360	1.00109.94		BS2
ATOM	34168	CA	ARG	B	209	163.910	166.806	-31.608	1.00109.94		BS2
ATOM	34169	CB	ARG	B	209	163.705	167.006	-33.116	1.00137.19		BS2
ATOM	34170	CG	ARG	B	209	162.426	167.751	-33.498	1.00137.19		BS2
ATOM	34171	CD	ARG	B	209	162.280	169.085	-32.783	1.00137.19		BS2
ATOM	34172	NE	ARG	B	209	163.314	170.039	-33.172	1.00137.19		BS2
ATOM	34173	CZ	ARG	B	209	163.483	170.495	-34.408	1.00137.19		BS2
ATOM	34174	NH1	ARG	B	209	162.684	170.084	-35.384	1.00137.19		BS2
ATOM	34175	NH2	ARG	B	209	164.453	171.362	-34.668	1.00137.19		BS2
ATOM	34176	C	ARG	B	209	162.676	166.160	-30.986	1.00109.94		BS2
ATOM	34177	O	ARG	B	209	161.819	166.847	-30.427	1.00109.94		BS2
ATOM	34178	N	SER	B	210	162.603	164.835	-31.075	1.00	94.20	BS2
ATOM	34179	CA	SER	B	210	161.488	164.074	-30.513	1.00	94.20	BS2



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ATOM	34180	CB	SER	B	210	161.503	162.650	-31.074	1.00	79.34	BS2
ATOM	34181	OG	SER	B	210	160.451	161.870	-30.542	1.00	79.34	BS2
ATOM	34182	C	SER	B	210	161.606	164.028	-28.994	1.00	94.20	BS2
ATOM	34183	O	SER	B	210	160.791	164.605	-28.271	1.00	94.20	BS2
ATOM	34184	N	ILE	B	211	162.630	163.327	-28.525	1.00	81.80	BS2
ATOM	34185	CA	ILE	B	211	162.893	163.202	-27.104	1.00	81.80	BS2
ATOM	34186	CB	ILE	B	211	164.332	162.732	-26.857	1.00	56.63	BS2
ATOM	34187	CG2	ILE	B	211	164.693	162.922	-25.387	1.00	56.63	BS2
ATOM	34188	CG1	ILE	B	211	164.485	161.278	-27.306	1.00	56.63	BS2
ATOM	34189	CD1	ILE	B	211	165.902	160.767	-27.251	1.00	56.63	BS2
ATOM	34190	C	ILE	B	211	162.695	164.531	-26.390	1.00	81.80	BS2
ATOM	34191	O	ILE	B	211	161.763	164.682	-25.599	1.00	81.80	BS2
ATOM	34192	N	GLN	B	212	163.579	165.485	-26.675	1.00	127.10	BS2
ATOM	34193	CA	GLN	B	212	163.530	166.816	-26.070	1.00	127.10	BS2
ATOM	34194	CB	GLN	B	212	164.263	167.818	-26.971	1.00	95.27	BS2
ATOM	34195	CG	GLN	B	212	164.339	169.246	-26.442	1.00	95.27	BS2
ATOM	34196	CD	GLN	B	212	162.998	169.962	-26.467	1.00	95.27	BS2
ATOM	34197	OE1	GLN	B	212	162.249	169.873	-27.446	1.00	95.27	BS2
ATOM	34198	NE2	GLN	B	212	162.694	170.688	-25.395	1.00	95.27	BS2
ATOM	34199	C	GLN	B	212	162.097	167.284	-25.817	1.00	127.10	BS2
ATOM	34200	O	GLN	B	212	161.778	167.766	-24.730	1.00	127.10	BS2
ATOM	34201	N	LEU	B	213	161.237	167.135	-26.819	1.00	68.90	BS2
ATOM	34202	CA	LEU	B	213	159.848	167.540	-26.692	1.00	68.90	BS2
ATOM	34203	CB	LEU	B	213	159.092	167.211	-27.973	1.00	83.42	BS2
ATOM	34204	CG	LEU	B	213	157.689	167.810	-28.120	1.00	83.42	BS2
ATOM	34205	CD1	LEU	B	213	157.126	167.336	-29.439	1.00	83.42	BS2
ATOM	34206	CD2	LEU	B	213	156.764	167.407	-26.976	1.00	83.42	BS2
ATOM	34207	C	LEU	B	213	159.152	166.851	-25.517	1.00	68.90	BS2
ATOM	34208	O	LEU	B	213	158.924	167.462	-24.465	1.00	68.90	BS2
ATOM	34209	N	ILE	B	214	158.792	165.583	-25.714	1.00	61.38	BS2
ATOM	34210	CA	ILE	B	214	158.106	164.803	-24.687	1.00	61.38	BS2
ATOM	34211	CB	ILE	B	214	158.153	163.303	-25.017	1.00	61.65	BS2
ATOM	34212	CG2	ILE	B	214	157.342	162.522	-24.004	1.00	61.65	BS2
ATOM	34213	CG1	ILE	B	214	157.596	163.054	-26.412	1.00	61.65	BS2
ATOM	34214	CD1	ILE	B	214	156.168	163.462	-26.593	1.00	61.65	BS2
ATOM	34215	C	ILE	B	214	158.693	165.010	-23.287	1.00	61.38	BS2
ATOM	34216	O	ILE	B	214	157.981	165.405	-22.366	1.00	61.38	BS2
ATOM	34217	N	LEU	B	215	159.986	164.739	-23.122	1.00	59.70	BS2
ATOM	34218	CA	LEU	B	215	160.615	164.911	-21.819	1.00	59.70	BS2
ATOM	34219	CB	LEU	B	215	162.117	164.659	-21.887	1.00	63.24	BS2
ATOM	34220	CG	LEU	B	215	162.577	163.225	-21.630	1.00	63.24	BS2
ATOM	34221	CD1	LEU	B	215	164.055	163.247	-21.248	1.00	63.24	BS2
ATOM	34222	CD2	LEU	B	215	161.761	162.603	-20.503	1.00	63.24	BS2
ATOM	34223	C	LEU	B	215	160.390	166.288	-21.229	1.00	59.70	BS2
ATOM	34224	O	LEU	B	215	159.902	166.416	-20.108	1.00	59.70	BS2
ATOM	34225	N	SER	B	216	160.759	167.322	-21.975	1.00	70.25	BS2
ATOM	34226	CA	SER	B	216	160.587	168.685	-21.488	1.00	70.25	BS2
ATOM	34227	CB	SER	B	216	160.886	169.695	-22.593	1.00	100.60	BS2
ATOM	34228	OG	SER	B	216	159.969	169.556	-23.661	1.00	100.60	BS2
ATOM	34229	C	SER	B	216	159.163	168.869	-20.993	1.00	70.25	BS2
ATOM	34230	O	SER	B	216	158.952	169.259	-19.847	1.00	70.25	BS2
ATOM	34231	N	ARG	B	217	158.195	168.574	-21.861	1.00	49.81	BS2
ATOM	34232	CA	ARG	B	217	156.780	168.697	-21.522	1.00	49.81	BS2
ATOM	34233	CB	ARG	B	217	155.906	168.144	-22.654	1.00	79.57	BS2
ATOM	34234	CG	ARG	B	217	155.952	168.946	-23.930	1.00	79.57	BS2
ATOM	34235	CD	ARG	B	217	155.562	170.404	-23.682	1.00	79.57	BS2
ATOM	34236	NE	ARG	B	217	155.513	171.164	-24.933	1.00	79.57	BS2
ATOM	34237	CZ	ARG	B	217	154.433	171.280	-25.707	1.00	79.57	BS2
ATOM	34238	NH1	ARG	B	217	153.289	170.694	-25.356	1.00	79.57	BS2
ATOM	34239	NH2	ARG	B	217	154.499	171.962	-26.851	1.00	79.57	BS2
ATOM	34240	C	ARG	B	217	156.473	167.942	-20.228	1.00	49.81	BS2
ATOM	34241	O	ARG	B	217	155.672	168.387	-19.403	1.00	49.81	BS2
ATOM	34242	N	ALA	B	218	157.112	166.792	-20.059	1.00	60.73	BS2
ATOM	34243	CA	ALA	B	218	156.905	165.995	-18.866	1.00	60.73	BS2
ATOM	34244	CB	ALA	B	218	157.594	164.656	-19.011	1.00	98.36	BS2
ATOM	34245	C	ALA	B	218	157.449	166.747	-17.661	1.00	60.73	BS2
ATOM	34246	O	ALA	B	218	156.938	166.614	-16.557	1.00	60.73	BS2
ATOM	34247	N	VAL	B	219	158.487	167.543	-17.873	1.00	72.71	BS2
ATOM	34248	CA	VAL	B	219	159.054	168.306	-16.779	1.00	72.71	BS2
ATOM	34249	CB	VAL	B	219	160.497	168.718	-17.079	1.00	64.06	BS2
ATOM	34250	CG1	VAL	B	219	161.087	169.455	-15.889	1.00	64.06	BS2
ATOM	34251	CG2	VAL	B	219	161.321	167.485	-17.385	1.00	64.06	BS2
ATOM	34252	C	VAL	B	219	158.202	169.548	-16.523	1.00	72.71	BS2
ATOM	34253	O	VAL	B	219	158.006	169.949	-15.374	1.00	72.71	BS2
ATOM	34254	N	ASP	B	220	157.693	170.163	-17.589	1.00	111.47	BS2
ATOM	34255	CA	ASP	B	220	156.841	171.340	-17.430	1.00	111.47	BS2
ATOM	34256	CB	ASP	B	220	156.201	171.746	-18.758	1.00	136.53	BS2



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ATOM	34257	CG	ASP	B	220	157.216	171.993	-19.847	1.00136.53	BS2
ATOM	34258	OD1	ASP	B	220	158.222	172.684	-19.575	1.00136.53	BS2
ATOM	34259	OD2	ASP	B	220	156.996	171.507	-20.978	1.00136.53	BS2
ATOM	34260	C	ASP	B	220	155.741	170.901	-16.483	1.00111.47	BS2
ATOM	34261	O	ASP	B	220	155.600	171.420	-15.374	1.00111.47	BS2
ATOM	34262	N	LEU	B	221	154.974	169.924	-16.954	1.00 63.24	BS2
ATOM	34263	CA	LEU	B	221	153.874	169.336	-16.208	1.00 63.24	BS2
ATOM	34264	CB	LEU	B	221	153.432	168.061	-16.918	1.00 68.65	BS2
ATOM	34265	CG	LEU	B	221	152.217	167.294	-16.402	1.00 68.65	BS2
ATOM	34266	CD1	LEU	B	221	152.546	166.557	-15.108	1.00 68.65	BS2
ATOM	34267	CD2	LEU	B	221	151.070	168.268	-16.233	1.00 68.65	BS2
ATOM	34268	C	LEU	B	221	154.267	169.034	-14.756	1.00 63.24	BS2
ATOM	34269	O	LEU	B	221	153.500	169.309	-13.836	1.00 63.24	BS2
ATOM	34270	N	ILE	B	222	155.455	168.467	-14.553	1.00 70.07	BS2
ATOM	34271	CA	ILE	B	222	155.925	168.155	-13.203	1.00 70.07	BS2
ATOM	34272	CB	ILE	B	222	157.350	167.538	-13.205	1.00 62.10	BS2
ATOM	34273	CG2	ILE	B	222	157.878	167.425	-11.783	1.00 62.10	BS2
ATOM	34274	CG1	ILE	B	222	157.329	166.146	-13.830	1.00 62.10	BS2
ATOM	34275	CD1	ILE	B	222	158.715	165.545	-13.992	1.00 62.10	BS2
ATOM	34276	C	ILE	B	222	155.960	169.421	-12.354	1.00 70.07	BS2
ATOM	34277	O	ILE	B	222	155.380	169.459	-11.269	1.00 70.07	BS2
ATOM	34278	N	ILE	B	223	156.642	170.453	-12.849	1.00 69.67	BS2
ATOM	34279	CA	ILE	B	223	156.747	171.722	-12.124	1.00 69.67	BS2
ATOM	34280	CB	ILE	B	223	157.718	172.701	-12.828	1.00 97.26	BS2
ATOM	34281	CG2	ILE	B	223	157.769	174.020	-12.070	1.00 97.26	BS2
ATOM	34282	CG1	ILE	B	223	159.121	172.094	-12.875	1.00 97.26	BS2
ATOM	34283	CD1	ILE	B	223	160.109	172.893	-13.691	1.00 97.26	BS2
ATOM	34284	C	ILE	B	223	155.370	172.375	-12.014	1.00 69.67	BS2
ATOM	34285	O	ILE	B	223	154.990	172.889	-10.955	1.00 69.67	BS2
ATOM	34286	N	GLN	B	224	154.629	172.352	-13.117	1.00 78.63	BS2
ATOM	34287	CA	GLN	B	224	153.288	172.910	-13.122	1.00 78.63	BS2
ATOM	34288	CB	GLN	B	224	152.572	172.582	-14.437	1.00141.58	BS2
ATOM	34289	CG	GLN	B	224	151.186	173.200	-14.561	1.00141.58	BS2
ATOM	34290	CD	GLN	B	224	150.512	172.883	-15.886	1.00141.58	BS2
ATOM	34291	OE1	GLN	B	224	150.195	171.730	-16.173	1.00141.58	BS2
ATOM	34292	NE2	GLN	B	224	150.293	173.911	-16.701	1.00141.58	BS2
ATOM	34293	C	GLN	B	224	152.569	172.243	-11.957	1.00 78.63	BS2
ATOM	34294	O	GLN	B	224	151.942	172.903	-11.138	1.00 78.63	BS2
ATOM	34295	N	ALA	B	225	152.698	170.925	-11.874	1.00 67.53	BS2
ATOM	34296	CA	ALA	B	225	152.062	170.165	-10.814	1.00 67.53	BS2
ATOM	34297	CB	ALA	B	225	152.240	168.682	-11.067	1.00128.39	BS2
ATOM	34298	C	ALA	B	225	152.595	170.525	-9.433	1.00 67.53	BS2
ATOM	34299	O	ALA	B	225	151.963	170.212	-8.429	1.00 67.53	BS2
ATOM	34300	N	ARG	B	226	153.752	171.177	-9.368	1.00117.58	BS2
ATOM	34301	CA	ARG	B	226	154.308	171.549	-8.073	1.00117.58	BS2
ATOM	34302	CB	ARG	B	226	155.692	170.933	-7.882	1.00122.73	BS2
ATOM	34303	CG	ARG	B	226	155.648	169.431	-7.740	1.00122.73	BS2
ATOM	34304	CD	ARG	B	226	156.907	168.888	-7.101	1.00122.73	BS2
ATOM	34305	NE	ARG	B	226	158.095	169.191	-7.888	1.00122.73	BS2
ATOM	34306	CZ	ARG	B	226	159.289	168.657	-7.659	1.00122.73	BS2
ATOM	34307	NH1	ARG	B	226	159.446	167.792	-6.665	1.00122.73	BS2
ATOM	34308	NH2	ARG	B	226	160.323	168.982	-8.426	1.00122.73	BS2
ATOM	34309	C	ARG	B	226	154.382	173.049	-7.847	1.00117.58	BS2
ATOM	34310	O	ARG	B	226	155.160	173.517	-7.018	1.00117.58	BS2
ATOM	34311	N	GLY	B	227	153.566	173.795	-8.585	1.00134.03	BS2
ATOM	34312	CA	GLY	B	227	153.528	175.242	-8.441	1.00134.03	BS2
ATOM	34313	C	GLY	B	227	154.846	175.978	-8.610	1.00134.03	BS2
ATOM	34314	O	GLY	B	227	155.328	176.624	-7.679	1.00134.03	BS2
ATOM	34315	N	GLY	B	228	155.427	175.890	-9.801	1.00139.50	BS2
ATOM	34316	CA	GLY	B	228	156.683	176.568	-10.063	1.00139.50	BS2
ATOM	34317	C	GLY	B	228	156.523	177.589	-11.170	1.00139.50	BS2
ATOM	34318	O	GLY	B	228	157.306	178.534	-11.274	1.00139.50	BS2
ATOM	34319	N	VAL	B	229	155.501	177.393	-11.998	1.00164.40	BS2
ATOM	34320	CA	VAL	B	229	155.220	178.292	-13.110	1.00164.40	BS2
ATOM	34321	CB	VAL	B	229	154.560	179.594	-12.608	1.00198.94	BS2
ATOM	34322	CG1	VAL	B	229	153.967	180.367	-13.778	1.00198.94	BS2
ATOM	34323	CG2	VAL	B	229	153.493	179.268	-11.574	1.00198.94	BS2
ATOM	34324	C	VAL	B	229	156.521	178.637	-13.832	1.00164.40	BS2
ATOM	34325	O	VAL	B	229	156.758	179.788	-14.198	1.00164.40	BS2
ATOM	34326	N	VAL	B	230	157.361	177.627	-14.033	1.00137.43	BS2
ATOM	34327	CA	VAL	B	230	158.648	177.809	-14.694	1.00137.43	BS2
ATOM	34328	CB	VAL	B	230	159.521	176.530	-14.523	1.00127.22	BS2
ATOM	34329	CG1	VAL	B	230	160.786	176.608	-15.376	1.00127.22	BS2
ATOM	34330	CG2	VAL	B	230	159.895	176.366	-13.050	1.00127.22	BS2
ATOM	34331	C	VAL	B	230	158.539	178.190	-16.178	1.00137.43	BS2
ATOM	34332	O	VAL	B	230	157.528	177.931	-16.837	1.00137.43	BS2
ATOM	34333	N	GLU	B	231	159.596	178.821	-16.681	1.00193.08	BS2



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ATOM	34334	CA	GLU	B	231	159.684	179.270	-18.066	1.00193.08	BS2
ATOM	34335	CB	GLU	B	231	160.651	180.453	-18.144	1.00198.94	BS2
ATOM	34336	CG	GLU	B	231	161.876	180.315	-17.242	1.00198.94	BS2
ATOM	34337	CD	GLU	B	231	162.567	178.965	-17.376	1.00198.94	BS2
ATOM	34338	OE1	GLU	B	231	162.915	178.578	-18.511	1.00198.94	BS2
ATOM	34339	OE2	GLU	B	231	162.768	178.291	-16.344	1.00198.94	BS2
ATOM	34340	C	GLU	B	231	160.140	178.158	-19.018	1.00193.08	BS2
ATOM	34341	O	GLU	B	231	160.606	177.106	-18.575	1.00193.08	BS2
ATOM	34342	N	PRO	B	232	160.018	178.385	-20.343	1.00182.31	BS2
ATOM	34343	CD	PRO	B	232	159.466	179.601	-20.971	1.00116.28	BS2
ATOM	34344	CA	PRO	B	232	160.409	177.419	-21.376	1.00182.31	BS2
ATOM	34345	CB	PRO	B	232	160.460	178.275	-22.634	1.00116.28	BS2
ATOM	34346	CG	PRO	B	232	159.300	179.179	-22.428	1.00116.28	BS2
ATOM	34347	C	PRO	B	232	161.712	176.663	-21.128	1.00182.31	BS2
ATOM	34348	O	PRO	B	232	162.666	177.194	-20.561	1.00182.31	BS2
ATOM	34349	N	SER	B	233	161.730	175.413	-21.577	1.00145.00	BS2
ATOM	34350	CA	SER	B	233	162.876	174.527	-21.425	1.00145.00	BS2
ATOM	34351	CB	SER	B	233	162.488	173.127	-21.923	1.00 97.67	BS2
ATOM	34352	OG	SER	B	233	163.467	172.156	-21.606	1.00 97.67	BS2
ATOM	34353	C	SER	B	233	164.109	175.038	-22.182	1.00145.00	BS2
ATOM	34354	O	SER	B	233	164.031	175.368	-23.365	1.00145.00	BS2
ATOM	34355	N	PRO	B	234	165.262	175.124	-21.496	1.00132.83	BS2
ATOM	34356	CD	PRO	B	234	165.388	175.032	-20.031	1.00 88.80	BS2
ATOM	34357	CA	PRO	B	234	166.522	175.590	-22.086	1.00132.83	BS2
ATOM	34358	CB	PRO	B	234	167.320	176.040	-20.868	1.00 88.80	BS2
ATOM	34359	CG	PRO	B	234	166.893	175.062	-19.836	1.00 88.80	BS2
ATOM	34360	C	PRO	B	234	167.252	174.504	-22.872	1.00132.83	BS2
ATOM	34361	O	PRO	B	234	168.337	174.732	-23.407	1.00132.83	BS2
ATOM	34362	N	SER	B	235	166.658	173.320	-22.929	1.00129.79	BS2
ATOM	34363	CA	SER	B	235	167.261	172.210	-23.645	1.00129.79	BS2
ATOM	34364	CB	SER	B	235	166.819	170.888	-23.036	1.00 95.25	BS2
ATOM	34365	OG	SER	B	235	165.470	170.620	-23.374	1.00 95.25	BS2
ATOM	34366	C	SER	B	235	166.874	172.228	-25.116	1.00129.79	BS2
ATOM	34367	O	SER	B	235	167.320	171.375	-25.884	1.00129.79	BS2
ATOM	34368	N	TYR	B	236	166.030	173.180	-25.508	1.00121.81	BS2
ATOM	34369	CA	TYR	B	236	165.622	173.283	-26.907	1.00121.81	BS2
ATOM	34370	CB	TYR	B	236	164.506	174.321	-27.078	1.00136.06	BS2
ATOM	34371	CG	TYR	B	236	163.816	174.300	-28.435	1.00136.06	BS2
ATOM	34372	CD1	TYR	B	236	162.687	175.089	-28.674	1.00136.06	BS2
ATOM	34373	CE1	TYR	B	236	162.041	175.076	-29.917	1.00136.06	BS2
ATOM	34374	CD2	TYR	B	236	164.284	173.494	-29.476	1.00136.06	BS2
ATOM	34375	CE2	TYR	B	236	163.649	173.472	-30.721	1.00136.06	BS2
ATOM	34376	CZ	TYR	B	236	162.527	174.264	-30.935	1.00136.06	BS2
ATOM	34377	OH	TYR	B	236	161.889	174.234	-32.158	1.00136.06	BS2
ATOM	34378	C	TYR	B	236	166.869	173.717	-27.661	1.00121.81	BS2
ATOM	34379	O	TYR	B	236	166.948	173.614	-28.884	1.00121.81	BS2
ATOM	34380	N	ALA	B	237	167.848	174.201	-26.903	1.00148.84	BS2
ATOM	34381	CA	ALA	B	237	169.120	174.635	-27.461	1.00148.84	BS2
ATOM	34382	CB	ALA	B	237	169.871	175.483	-26.440	1.00115.36	BS2
ATOM	34383	C	ALA	B	237	169.926	173.385	-27.815	1.00148.84	BS2
ATOM	34384	O	ALA	B	237	170.810	173.417	-28.674	1.00148.84	BS2
ATOM	34385	N	LEU	B	238	169.606	172.283	-27.141	1.00131.47	BS2
ATOM	34386	CA	LEU	B	238	170.271	171.005	-27.365	1.00131.47	BS2
ATOM	34387	CB	LEU	B	238	170.286	170.184	-26.076	1.00150.10	BS2
ATOM	34388	CG	LEU	B	238	171.161	170.740	-24.955	1.00150.10	BS2
ATOM	34389	CD1	LEU	B	238	171.025	169.873	-23.722	1.00150.10	BS2
ATOM	34390	CD2	LEU	B	238	172.608	170.782	-25.418	1.00150.10	BS2
ATOM	34391	C	LEU	B	238	169.545	170.233	-28.454	1.00131.47	BS2
ATOM	34392	O	LEU	B	238	169.453	169.009	-28.417	1.00131.47	BS2
ATOM	34393	N	VAL	B	239	169.016	170.972	-29.417	1.00140.17	BS2
ATOM	34394	CA	VAL	B	239	168.306	170.385	-30.535	1.00140.17	BS2
ATOM	34395	CB	VAL	B	239	166.837	170.848	-30.545	1.00 99.47	BS2
ATOM	34396	CG1	VAL	B	239	166.089	170.233	-31.715	1.00 99.47	BS2
ATOM	34397	CG2	VAL	B	239	166.177	170.449	-29.237	1.00 99.47	BS2
ATOM	34398	C	VAL	B	239	169.040	170.864	-31.779	1.00140.17	BS2
ATOM	34399	O	VAL	B	239	168.506	170.855	-32.888	1.00140.17	BS2
ATOM	34400	N	GLN	B	240	170.281	171.291	-31.569	1.00190.18	BS2
ATOM	34401	CA	GLN	B	240	171.136	171.769	-32.647	1.00190.18	BS2
ATOM	34402	CB	GLN	B	240	171.408	173.269	-32.495	1.00153.63	BS2
ATOM	34403	CG	GLN	B	240	170.203	174.157	-32.764	1.00153.63	BS2
ATOM	34404	CD	GLN	B	240	169.151	174.064	-31.681	1.00153.63	BS2
ATOM	34405	OE1	GLN	B	240	169.397	174.426	-30.532	1.00153.63	BS2
ATOM	34406	NE2	GLN	B	240	167.967	173.578	-32.043	1.00153.63	BS2
ATOM	34407	C	GLN	B	240	172.456	171.005	-32.625	1.00190.18	BS2
ATOM	34408	O	GLN	B	240	172.713	170.250	-33.589	1.00190.18	BS2
ATOM	34409	OXT	GLN	B	240	173.208	171.167	-31.637	1.00198.94	BS2
TER	34409		GLN	B	240					BS2



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ATOM	34410	C	GLY	C	2	205.406	128.505	7.712	1.00	69.44	CS3
ATOM	34411	O	GLY	C	2	206.605	128.493	7.447	1.00	69.44	CS3
ATOM	34412	N	GLY	C	2	203.897	126.624	6.933	1.00	69.44	CS3
ATOM	34413	CA	GLY	C	2	204.682	127.225	8.075	1.00	69.44	CS3
ATOM	34414	N	ASN	C	3	204.676	129.614	7.734	1.00	79.46	CS3
ATOM	34415	CA	ASN	C	3	205.223	130.910	7.364	1.00	79.46	CS3
ATOM	34416	CB	ASN	C	3	204.846	131.189	5.895	1.00	80.58	CS3
ATOM	34417	CG	ASN	C	3	203.459	130.644	5.522	1.00	80.58	CS3
ATOM	34418	OD1	ASN	C	3	203.202	130.282	4.372	1.00	80.58	CS3
ATOM	34419	ND2	ASN	C	3	202.564	130.594	6.496	1.00	80.58	CS3
ATOM	34420	C	ASN	C	3	204.833	132.108	8.261	1.00	79.46	CS3
ATOM	34421	O	ASN	C	3	204.338	131.944	9.389	1.00	79.46	CS3
ATOM	34422	N	LYS	C	4	205.066	133.311	7.729	1.00	113.95	CS3
ATOM	34423	CA	LYS	C	4	204.802	134.598	8.391	1.00	113.95	CS3
ATOM	34424	CB	LYS	C	4	203.306	134.959	8.356	1.00	65.97	CS3
ATOM	34425	CG	LYS	C	4	202.323	133.814	8.492	1.00	65.97	CS3
ATOM	34426	CD	LYS	C	4	201.076	134.124	7.670	1.00	65.97	CS3
ATOM	34427	CE	LYS	C	4	200.191	132.903	7.516	1.00	65.97	CS3
ATOM	34428	NZ	LYS	C	4	199.116	133.145	6.511	1.00	65.97	CS3
ATOM	34429	C	LYS	C	4	205.360	134.843	9.792	1.00	113.95	CS3
ATOM	34430	O	LYS	C	4	205.165	134.052	10.721	1.00	113.95	CS3
ATOM	34431	N	ILE	C	5	206.058	135.970	9.915	1.00	95.02	CS3
ATOM	34432	CA	ILE	C	5	206.690	136.385	11.161	1.00	95.02	CS3
ATOM	34433	CB	ILE	C	5	207.541	137.671	10.984	1.00	93.77	CS3
ATOM	34434	CG2	ILE	C	5	208.899	137.335	10.423	1.00	93.77	CS3
ATOM	34435	CG1	ILE	C	5	206.799	138.674	10.102	1.00	93.77	CS3
ATOM	34436	CD1	ILE	C	5	205.451	139.123	10.650	1.00	93.77	CS3
ATOM	34437	C	ILE	C	5	205.732	136.684	12.293	1.00	95.02	CS3
ATOM	34438	O	ILE	C	5	204.509	136.669	12.132	1.00	95.02	CS3
ATOM	34439	N	HIS	C	6	206.323	136.972	13.447	1.00	79.87	CS3
ATOM	34440	CA	HIS	C	6	205.573	137.332	14.627	1.00	79.87	CS3
ATOM	34441	CB	HIS	C	6	206.468	137.295	15.853	1.00	87.22	CS3
ATOM	34442	CG	HIS	C	6	205.745	137.612	17.114	1.00	87.22	CS3
ATOM	34443	CD2	HIS	C	6	205.277	138.785	17.596	1.00	87.22	CS3
ATOM	34444	ND1	HIS	C	6	205.361	136.643	18.016	1.00	87.22	CS3
ATOM	34445	CE1	HIS	C	6	204.686	137.207	19.000	1.00	87.22	CS3
ATOM	34446	NE2	HIS	C	6	204.620	138.507	18.769	1.00	87.22	CS3
ATOM	34447	C	HIS	C	6	205.155	138.764	14.349	1.00	79.87	CS3
ATOM	34448	O	HIS	C	6	206.000	139.646	14.221	1.00	79.87	CS3
ATOM	34449	N	PRO	C	7	203.847	139.017	14.252	1.00	87.41	CS3
ATOM	34450	CD	PRO	C	7	202.746	138.123	14.645	1.00	67.75	CS3
ATOM	34451	CA	PRO	C	7	203.355	140.370	13.975	1.00	87.41	CS3
ATOM	34452	CB	PRO	C	7	201.843	140.228	14.143	1.00	67.75	CS3
ATOM	34453	CG	PRO	C	7	201.715	139.094	15.107	1.00	67.75	CS3
ATOM	34454	C	PRO	C	7	203.970	141.456	14.855	1.00	87.41	CS3
ATOM	34455	O	PRO	C	7	204.107	142.601	14.423	1.00	87.41	CS3
ATOM	34456	N	ILE	C	8	204.349	141.099	16.079	1.00	67.81	CS3
ATOM	34457	CA	ILE	C	8	204.973	142.070	16.972	1.00	67.81	CS3
ATOM	34458	CB	ILE	C	8	204.768	141.708	18.453	1.00	106.26	CS3
ATOM	34459	CG2	ILE	C	8	205.777	142.444	19.321	1.00	106.26	CS3
ATOM	34460	CG1	ILE	C	8	203.351	142.066	18.879	1.00	106.26	CS3
ATOM	34461	CD1	ILE	C	8	203.075	141.757	20.324	1.00	106.26	CS3
ATOM	34462	C	ILE	C	8	206.468	142.155	16.704	1.00	67.81	CS3
ATOM	34463	O	ILE	C	8	206.971	143.210	16.314	1.00	67.81	CS3
ATOM	34464	N	GLY	C	9	207.174	141.047	16.924	1.00	86.18	CS3
ATOM	34465	CA	GLY	C	9	208.607	141.030	16.688	1.00	86.18	CS3
ATOM	34466	C	GLY	C	9	208.934	141.703	15.368	1.00	86.18	CS3
ATOM	34467	O	GLY	C	9	209.949	142.396	15.221	1.00	86.18	CS3
ATOM	34468	N	PHE	C	10	208.052	141.496	14.398	1.00	64.97	CS3
ATOM	34469	CA	PHE	C	10	208.221	142.083	13.084	1.00	64.97	CS3
ATOM	34470	CB	PHE	C	10	207.142	141.568	12.119	1.00	67.70	CS3
ATOM	34471	CG	PHE	C	10	207.204	142.195	10.744	1.00	67.70	CS3
ATOM	34472	CD1	PHE	C	10	208.333	142.047	9.944	1.00	67.70	CS3
ATOM	34473	CD2	PHE	C	10	206.148	142.972	10.268	1.00	67.70	CS3
ATOM	34474	CE1	PHE	C	10	208.407	142.671	8.690	1.00	67.70	CS3
ATOM	34475	CE2	PHE	C	10	206.214	143.597	9.018	1.00	67.70	CS3
ATOM	34476	CZ	PHE	C	10	207.345	143.448	8.228	1.00	67.70	CS3
ATOM	34477	C	PHE	C	10	208.126	143.591	13.196	1.00	64.97	CS3
ATOM	34478	O	PHE	C	10	208.869	144.309	12.538	1.00	64.97	CS3
ATOM	34479	N	ARG	C	11	207.225	144.070	14.045	1.00	81.10	CS3
ATOM	34480	CA	ARG	C	11	207.030	145.504	14.195	1.00	81.10	CS3
ATOM	34481	CB	ARG	C	11	205.535	145.801	14.329	1.00	66.65	CS3
ATOM	34482	CG	ARG	C	11	204.746	145.480	13.074	1.00	66.65	CS3
ATOM	34483	CD	ARG	C	11	203.319	145.053	13.387	1.00	66.65	CS3
ATOM	34484	NE	ARG	C	11	202.660	144.468	12.222	1.00	66.65	CS3
ATOM	34485	CZ	ARG	C	11	202.440	145.128	11.091	1.00	66.65	CS3
ATOM	34486	NH1	ARG	C	11	202.827	146.395	10.975	1.00	66.65	CS3



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ATOM	34487	NH2	ARG	C	11	201.834	144.526	10.077	1.00	66.65	CS3
ATOM	34488	C	ARG	C	11	207.789	146.193	15.324	1.00	81.10	CS3
ATOM	34489	O	ARG	C	11	207.711	147.415	15.446	1.00	81.10	CS3
ATOM	34490	N	LEU	C	12	208.531	145.440	16.136	1.00	54.99	CS3
ATOM	34491	CA	LEU	C	12	209.264	146.050	17.249	1.00	54.99	CS3
ATOM	34492	CB	LEU	C	12	210.271	145.069	17.838	1.00	59.55	CS3
ATOM	34493	CG	LEU	C	12	209.600	144.125	18.835	1.00	59.55	CS3
ATOM	34494	CD1	LEU	C	12	210.624	143.231	19.520	1.00	59.55	CS3
ATOM	34495	CD2	LEU	C	12	208.875	144.967	19.864	1.00	59.55	CS3
ATOM	34496	C	LEU	C	12	209.965	147.355	16.919	1.00	54.99	CS3
ATOM	34497	O	LEU	C	12	210.175	148.187	17.796	1.00	54.99	CS3
ATOM	34498	N	GLY	C	13	210.328	147.542	15.659	1.00	81.94	CS3
ATOM	34499	CA	GLY	C	13	210.981	148.780	15.288	1.00	81.94	CS3
ATOM	34500	C	GLY	C	13	210.041	149.956	15.473	1.00	81.94	CS3
ATOM	34501	O	GLY	C	13	210.386	150.963	16.089	1.00	81.94	CS3
ATOM	34502	N	ILE	C	14	208.842	149.829	14.926	1.00	72.91	CS3
ATOM	34503	CA	ILE	C	14	207.848	150.880	15.041	1.00	72.91	CS3
ATOM	34504	CB	ILE	C	14	207.414	151.379	13.649	1.00	114.88	CS3
ATOM	34505	CG2	ILE	C	14	206.570	152.641	13.780	1.00	114.88	CS3
ATOM	34506	CG1	ILE	C	14	208.658	151.675	12.804	1.00	114.88	CS3
ATOM	34507	CD1	ILE	C	14	209.640	152.651	13.457	1.00	114.88	CS3
ATOM	34508	C	ILE	C	14	206.653	150.306	15.788	1.00	72.91	CS3
ATOM	34509	O	ILE	C	14	206.818	149.421	16.623	1.00	72.91	CS3
ATOM	34510	N	THR	C	15	205.463	150.809	15.485	1.00	69.16	CS3
ATOM	34511	CA	THR	C	15	204.220	150.371	16.116	1.00	69.16	CS3
ATOM	34512	CB	THR	C	15	203.174	150.030	15.026	1.00	119.46	CS3
ATOM	34513	OG1	THR	C	15	203.678	148.999	14.163	1.00	119.46	CS3
ATOM	34514	CG2	THR	C	15	202.866	151.272	14.194	1.00	119.46	CS3
ATOM	34515	C	THR	C	15	204.290	149.206	17.126	1.00	69.16	CS3
ATOM	34516	O	THR	C	15	203.559	148.222	16.982	1.00	69.16	CS3
ATOM	34517	N	ARG	C	16	205.141	149.332	18.151	1.00	82.98	CS3
ATOM	34518	CA	ARG	C	16	205.298	148.298	19.188	1.00	82.98	CS3
ATOM	34519	CB	ARG	C	16	205.147	146.909	18.582	1.00	88.27	CS3
ATOM	34520	CG	ARG	C	16	204.866	145.846	19.586	1.00	88.27	CS3
ATOM	34521	CD	ARG	C	16	203.427	145.897	19.966	1.00	88.27	CS3
ATOM	34522	NE	ARG	C	16	203.113	144.871	20.948	1.00	88.27	CS3
ATOM	34523	CZ	ARG	C	16	201.877	144.550	21.319	1.00	88.27	CS3
ATOM	34524	NH1	ARG	C	16	200.837	145.183	20.775	1.00	88.27	CS3
ATOM	34525	NH2	ARG	C	16	201.678	143.605	22.241	1.00	88.27	CS3
ATOM	34526	C	ARG	C	16	206.657	148.359	19.899	1.00	82.98	CS3
ATOM	34527	O	ARG	C	16	207.681	148.004	19.314	1.00	82.98	CS3
ATOM	34528	N	ASP	C	17	206.666	148.789	21.161	1.00	63.96	CS3
ATOM	34529	CA	ASP	C	17	207.908	148.883	21.933	1.00	63.96	CS3
ATOM	34530	CB	ASP	C	17	207.778	149.936	23.030	1.00	134.07	CS3
ATOM	34531	CG	ASP	C	17	207.435	151.299	22.481	1.00	134.07	CS3
ATOM	34532	OD1	ASP	C	17	208.232	151.832	21.683	1.00	134.07	CS3
ATOM	34533	OD2	ASP	C	17	206.366	151.836	22.839	1.00	134.07	CS3
ATOM	34534	C	ASP	C	17	208.244	147.544	22.559	1.00	63.96	CS3
ATOM	34535	O	ASP	C	17	207.451	146.607	22.500	1.00	63.96	CS3
ATOM	34536	N	TRP	C	18	209.423	147.453	23.158	1.00	75.63	CS3
ATOM	34537	CA	TRP	C	18	209.849	146.210	23.789	1.00	75.63	CS3
ATOM	34538	CB	TRP	C	18	211.354	146.251	24.085	1.00	79.07	CS3
ATOM	34539	CG	TRP	C	18	212.257	146.104	22.888	1.00	79.07	CS3
ATOM	34540	CD2	TRP	C	18	212.355	146.989	21.766	1.00	79.07	CS3
ATOM	34541	CE2	TRP	C	18	213.352	146.470	20.910	1.00	79.07	CS3
ATOM	34542	CE3	TRP	C	18	211.698	148.169	21.400	1.00	79.07	CS3
ATOM	34543	CD1	TRP	C	18	213.170	145.110	22.672	1.00	79.07	CS3
ATOM	34544	NE1	TRP	C	18	213.832	145.324	21.487	1.00	79.07	CS3
ATOM	34545	CZ2	TRP	C	18	213.708	147.088	19.712	1.00	79.07	CS3
ATOM	34546	CZ3	TRP	C	18	212.051	148.785	20.205	1.00	79.07	CS3
ATOM	34547	CH2	TRP	C	18	213.049	148.241	19.375	1.00	79.07	CS3
ATOM	34548	C	TRP	C	18	209.091	145.974	25.092	1.00	75.63	CS3
ATOM	34549	O	TRP	C	18	208.432	146.877	25.603	1.00	75.63	CS3
ATOM	34550	N	GLU	C	19	209.190	144.755	25.620	1.00	85.16	CS3
ATOM	34551	CA	GLU	C	19	208.543	144.388	26.883	1.00	85.16	CS3
ATOM	34552	CB	GLU	C	19	208.026	142.944	26.834	1.00	118.32	CS3
ATOM	34553	CG	GLU	C	19	206.507	142.799	26.811	1.00	118.32	CS3
ATOM	34554	CD	GLU	C	19	206.058	141.347	26.935	1.00	118.32	CS3
ATOM	34555	OE1	GLU	C	19	206.415	140.693	27.939	1.00	118.32	CS3
ATOM	34556	OE2	GLU	C	19	205.345	140.856	26.032	1.00	118.32	CS3
ATOM	34557	C	GLU	C	19	209.578	144.513	27.997	1.00	85.16	CS3
ATOM	34558	O	GLU	C	19	209.368	144.032	29.108	1.00	85.16	CS3
ATOM	34559	N	SER	C	20	210.702	145.150	27.669	1.00	85.13	CS3
ATOM	34560	CA	SER	C	20	211.816	145.376	28.594	1.00	85.13	CS3
ATOM	34561	CB	SER	C	20	212.585	144.076	28.874	1.00	66.69	CS3
ATOM	34562	OG	SER	C	20	211.777	143.104	29.524	1.00	66.69	CS3
ATOM	34563	C	SER	C	20	212.765	146.369	27.935	1.00	85.13	CS3



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ATOM	34564	O	SER	C	20	213.280	146.107	26.850	1.00	85.13	CS3
ATOM	34565	N	ARG	C	21	212.999	147.506	28.578	1.00	99.76	CS3
ATOM	34566	CA	ARG	C	21	213.893	148.503	28.004	1.00	99.76	CS3
ATOM	34567	CB	ARG	C	21	213.084	149.680	27.462	1.00156.11		CS3
ATOM	34568	CG	ARG	C	21	211.812	149.930	28.227	1.00156.11		CS3
ATOM	34569	CD	ARG	C	21	210.683	150.254	27.281	1.00156.11		CS3
ATOM	34570	NE	ARG	C	21	209.387	150.043	27.915	1.00156.11		CS3
ATOM	34571	CZ	ARG	C	21	208.223	150.143	27.284	1.00156.11		CS3
ATOM	34572	NH1	ARG	C	21	208.190	150.455	25.993	1.00156.11		CS3
ATOM	34573	NH2	ARG	C	21	207.092	149.924	27.942	1.00156.11		CS3
ATOM	34574	C	ARG	C	21	214.942	148.983	28.988	1.00	99.76	CS3
ATOM	34575	O	ARG	C	21	214.896	150.107	29.479	1.00	99.76	CS3
ATOM	34576	N	TRP	C	22	215.896	148.106	29.263	1.00100.28		CS3
ATOM	34577	CA	TRP	C	22	216.981	148.404	30.178	1.00100.28		CS3
ATOM	34578	CB	TRP	C	22	216.824	147.590	31.452	1.00	82.01	CS3
ATOM	34579	CG	TRP	C	22	216.399	146.179	31.214	1.00	82.01	CS3
ATOM	34580	CD2	TRP	C	22	217.250	145.047	30.977	1.00	82.01	CS3
ATOM	34581	CE2	TRP	C	22	216.413	143.911	30.873	1.00	82.01	CS3
ATOM	34582	CE3	TRP	C	22	218.638	144.879	30.842	1.00	82.01	CS3
ATOM	34583	CD1	TRP	C	22	215.120	145.699	31.231	1.00	82.01	CS3
ATOM	34584	NE1	TRP	C	22	215.120	144.341	31.032	1.00	82.01	CS3
ATOM	34585	CZ2	TRP	C	22	216.921	142.618	30.643	1.00	82.01	CS3
ATOM	34586	CZ3	TRP	C	22	219.142	143.590	30.610	1.00	82.01	CS3
ATOM	34587	CH2	TRP	C	22	218.282	142.481	30.515	1.00	82.01	CS3
ATOM	34588	C	TRP	C	22	218.316	148.070	29.537	1.00100.28		CS3
ATOM	34589	O	TRP	C	22	218.522	146.944	29.088	1.00100.28		CS3
ATOM	34590	N	TYR	C	23	219.220	149.049	29.498	1.00	94.58	CS3
ATOM	34591	CA	TYR	C	23	220.547	148.852	28.915	1.00	94.58	CS3
ATOM	34592	CB	TYR	C	23	221.265	150.196	28.755	1.00102.83		CS3
ATOM	34593	CG	TYR	C	23	222.661	150.070	28.189	1.00102.83		CS3
ATOM	34594	CD1	TYR	C	23	222.891	150.181	26.823	1.00102.83		CS3
ATOM	34595	CE1	TYR	C	23	224.167	150.008	26.296	1.00102.83		CS3
ATOM	34596	CD2	TYR	C	23	223.745	149.785	29.017	1.00102.83		CS3
ATOM	34597	CE2	TYR	C	23	225.018	149.605	28.502	1.00102.83		CS3
ATOM	34598	CZ	TYR	C	23	225.224	149.717	27.142	1.00102.83		CS3
ATOM	34599	OH	TYR	C	23	226.482	149.520	26.625	1.00102.83		CS3
ATOM	34600	C	TYR	C	23	221.398	147.923	29.785	1.00	94.58	CS3
ATOM	34601	O	TYR	C	23	221.108	147.707	30.961	1.00	94.58	CS3
ATOM	34602	N	ALA	C	24	222.447	147.365	29.198	1.00	87.47	CS3
ATOM	34603	CA	ALA	C	24	223.335	146.478	29.928	1.00	87.47	CS3
ATOM	34604	CB	ALA	C	24	222.582	145.247	30.415	1.00	59.62	CS3
ATOM	34605	C	ALA	C	24	224.476	146.073	29.018	1.00	87.47	CS3
ATOM	34606	O	ALA	C	24	224.519	146.462	27.847	1.00	87.47	CS3
ATOM	34607	N	GLY	C	25	225.400	145.288	29.559	1.00	86.92	CS3
ATOM	34608	CA	GLY	C	25	226.540	144.868	28.774	1.00	86.92	CS3
ATOM	34609	C	GLY	C	25	227.034	143.475	29.086	1.00	86.92	CS3
ATOM	34610	O	GLY	C	25	226.630	142.841	30.062	1.00	86.92	CS3
ATOM	34611	N	LYS	C	26	227.929	143.022	28.221	1.00	89.35	CS3
ATOM	34612	CA	LYS	C	26	228.561	141.713	28.276	1.00	89.35	CS3
ATOM	34613	CB	LYS	C	26	230.031	141.851	27.862	1.00146.04		CS3
ATOM	34614	CG	LYS	C	26	230.346	143.120	27.055	1.00146.04		CS3
ATOM	34615	CD	LYS	C	26	229.341	143.373	25.929	1.00146.04		CS3
ATOM	34616	CE	LYS	C	26	228.623	144.708	26.130	1.00146.04		CS3
ATOM	34617	NZ	LYS	C	26	227.412	144.864	25.274	1.00146.04		CS3
ATOM	34618	C	LYS	C	26	228.462	140.962	29.606	1.00	89.35	CS3
ATOM	34619	O	LYS	C	26	227.574	140.133	29.792	1.00	89.35	CS3
ATOM	34620	N	LYS	C	27	229.373	141.245	30.529	1.00123.26		CS3
ATOM	34621	CA	LYS	C	27	229.381	140.559	31.816	1.00123.26		CS3
ATOM	34622	CB	LYS	C	27	230.454	141.165	32.725	1.00163.10		CS3
ATOM	34623	CG	LYS	C	27	231.873	141.016	32.204	1.00163.10		CS3
ATOM	34624	CD	LYS	C	27	232.877	141.518	33.225	1.00163.10		CS3
ATOM	34625	CE	LYS	C	27	234.301	141.357	32.727	1.00163.10		CS3
ATOM	34626	NZ	LYS	C	27	235.283	141.785	33.759	1.00163.10		CS3
ATOM	34627	C	LYS	C	27	228.041	140.542	32.554	1.00123.26		CS3
ATOM	34628	O	LYS	C	27	227.894	139.848	33.562	1.00123.26		CS3
ATOM	34629	N	GLN	C	28	227.065	141.294	32.057	1.00119.10		CS3
ATOM	34630	CA	GLN	C	28	225.758	141.345	32.702	1.00119.10		CS3
ATOM	34631	CB	GLN	C	28	225.401	142.775	33.052	1.00128.64		CS3
ATOM	34632	CG	GLN	C	28	226.255	143.392	34.101	1.00128.64		CS3
ATOM	34633	CD	GLN	C	28	225.744	144.758	34.447	1.00128.64		CS3
ATOM	34634	OE1	GLN	C	28	224.640	144.903	34.975	1.00128.64		CS3
ATOM	34635	NE2	GLN	C	28	226.530	145.780	34.134	1.00128.64		CS3
ATOM	34636	C	GLN	C	28	224.618	140.773	31.877	1.00119.10		CS3
ATOM	34637	O	GLN	C	28	224.267	139.604	32.016	1.00119.10		CS3
ATOM	34638	N	TYR	C	29	224.038	141.627	31.036	1.00	65.97	CS3
ATOM	34639	CA	TYR	C	29	222.909	141.284	30.168	1.00	65.97	CS3
ATOM	34640	CB	TYR	C	29	223.318	141.389	28.704	1.00	69.89	CS3



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ATOM	34641	CG	TYR	C	29	222.159	141.745	27.808	1.00	69.89	CS3
ATOM	34642	CD1	TYR	C	29	222.029	143.035	27.279	1.00	69.89	CS3
ATOM	34643	CE1	TYR	C	29	220.960	143.367	26.450	1.00	69.89	CS3
ATOM	34644	CD2	TYR	C	29	221.187	140.799	27.491	1.00	69.89	CS3
ATOM	34645	CE2	TYR	C	29	220.116	141.118	26.669	1.00	69.89	CS3
ATOM	34646	CZ	TYR	C	29	220.009	142.399	26.148	1.00	69.89	CS3
ATOM	34647	OH	TYR	C	29	218.964	142.692	25.305	1.00	69.89	CS3
ATOM	34648	C	TYR	C	29	222.226	139.930	30.390	1.00	65.97	CS3
ATOM	34649	O	TYR	C	29	221.052	139.882	30.752	1.00	65.97	CS3
ATOM	34650	N	ARG	C	30	222.943	138.836	30.155	1.00	92.92	CS3
ATOM	34651	CA	ARG	C	30	222.355	137.513	30.339	1.00	92.92	CS3
ATOM	34652	CB	ARG	C	30	223.352	136.419	29.952	1.00	91.37	CS3
ATOM	34653	CG	ARG	C	30	224.544	136.343	30.857	1.00	91.37	CS3
ATOM	34654	CD	ARG	C	30	225.377	135.113	30.578	1.00	91.37	CS3
ATOM	34655	NE	ARG	C	30	226.584	135.111	31.397	1.00	91.37	CS3
ATOM	34656	CZ	ARG	C	30	227.486	136.089	31.391	1.00	91.37	CS3
ATOM	34657	NH1	ARG	C	30	227.319	137.148	30.605	1.00	91.37	CS3
ATOM	34658	NH2	ARG	C	30	228.551	136.015	32.179	1.00	91.37	CS3
ATOM	34659	C	ARG	C	30	221.891	137.298	31.780	1.00	92.92	CS3
ATOM	34660	O	ARG	C	30	220.939	136.557	32.025	1.00	92.92	CS3
ATOM	34661	N	HIS	C	31	222.570	137.943	32.726	1.00	81.34	CS3
ATOM	34662	CA	HIS	C	31	222.224	137.840	34.145	1.00	81.34	CS3
ATOM	34663	CB	HIS	C	31	223.379	138.337	35.017	1.00	93.15	CS3
ATOM	34664	CG	HIS	C	31	224.619	137.501	34.937	1.00	93.15	CS3
ATOM	34665	CD2	HIS	C	31	225.897	137.833	34.635	1.00	93.15	CS3
ATOM	34666	ND1	HIS	C	31	224.637	136.161	35.258	1.00	93.15	CS3
ATOM	34667	CE1	HIS	C	31	225.873	135.704	35.160	1.00	93.15	CS3
ATOM	34668	NE2	HIS	C	31	226.658	136.699	34.784	1.00	93.15	CS3
ATOM	34669	C	HIS	C	31	221.003	138.718	34.427	1.00	81.34	CS3
ATOM	34670	O	HIS	C	31	220.019	138.289	35.038	1.00	81.34	CS3
ATOM	34671	N	LEU	C	32	221.097	139.960	33.969	1.00	90.56	CS3
ATOM	34672	CA	LEU	C	32	220.051	140.951	34.135	1.00	90.56	CS3
ATOM	34673	CB	LEU	C	32	220.565	142.296	33.618	1.00	98.71	CS3
ATOM	34674	CG	LEU	C	32	219.999	143.601	34.175	1.00	98.71	CS3
ATOM	34675	CD1	LEU	C	32	220.770	144.777	33.573	1.00	98.71	CS3
ATOM	34676	CD2	LEU	C	32	218.507	143.701	33.868	1.00	98.71	CS3
ATOM	34677	C	LEU	C	32	218.790	140.534	33.372	1.00	90.56	CS3
ATOM	34678	O	LEU	C	32	217.678	140.856	33.787	1.00	90.56	CS3
ATOM	34679	N	LEU	C	33	218.966	139.817	32.262	1.00	93.03	CS3
ATOM	34680	CA	LEU	C	33	217.835	139.363	31.448	1.00	93.03	CS3
ATOM	34681	CB	LEU	C	33	218.292	139.012	30.019	1.00	79.80	CS3
ATOM	34682	CG	LEU	C	33	217.228	138.467	29.042	1.00	79.80	CS3
ATOM	34683	CD1	LEU	C	33	217.496	138.970	27.637	1.00	79.80	CS3
ATOM	34684	CD2	LEU	C	33	217.213	136.950	29.072	1.00	79.80	CS3
ATOM	34685	C	LEU	C	33	217.104	138.169	32.047	1.00	93.03	CS3
ATOM	34686	O	LEU	C	33	215.869	138.150	32.087	1.00	93.03	CS3
ATOM	34687	N	LEU	C	34	217.856	137.171	32.504	1.00	68.59	CS3
ATOM	34688	CA	LEU	C	34	217.226	135.996	33.083	1.00	68.59	CS3
ATOM	34689	CB	LEU	C	34	218.267	135.022	33.619	1.00	43.77	CS3
ATOM	34690	CG	LEU	C	34	217.679	133.721	34.184	1.00	43.77	CS3
ATOM	34691	CD1	LEU	C	34	218.783	132.718	34.437	1.00	43.77	CS3
ATOM	34692	CD2	LEU	C	34	216.969	133.990	35.488	1.00	43.77	CS3
ATOM	34693	C	LEU	C	34	216.307	136.443	34.208	1.00	68.59	CS3
ATOM	34694	O	LEU	C	34	215.298	135.795	34.498	1.00	68.59	CS3
ATOM	34695	N	GLU	C	35	216.654	137.561	34.837	1.00	104.28	CS3
ATOM	34696	CA	GLU	C	35	215.845	138.097	35.924	1.00	104.28	CS3
ATOM	34697	CB	GLU	C	35	216.485	139.370	36.488	1.00	137.76	CS3
ATOM	34698	CG	GLU	C	35	215.806	139.895	37.747	1.00	137.76	CS3
ATOM	34699	CD	GLU	C	35	216.698	140.818	38.565	1.00	137.76	CS3
ATOM	34700	OE1	GLU	C	35	217.749	140.352	39.065	1.00	137.76	CS3
ATOM	34701	OE2	GLU	C	35	216.344	142.006	38.713	1.00	137.76	CS3
ATOM	34702	C	GLU	C	35	214.435	138.389	35.424	1.00	104.28	CS3
ATOM	34703	O	GLU	C	35	213.468	137.812	35.921	1.00	104.28	CS3
ATOM	34704	N	ASP	C	36	214.328	139.274	34.434	1.00	64.34	CS3
ATOM	34705	CA	ASP	C	36	213.029	139.633	33.861	1.00	64.34	CS3
ATOM	34706	CB	ASP	C	36	213.191	140.337	32.510	1.00	128.16	CS3
ATOM	34707	CG	ASP	C	36	213.925	141.649	32.615	1.00	128.16	CS3
ATOM	34708	OD1	ASP	C	36	213.755	142.483	31.704	1.00	128.16	CS3
ATOM	34709	OD2	ASP	C	36	214.677	141.847	33.591	1.00	128.16	CS3
ATOM	34710	C	ASP	C	36	212.188	138.384	33.637	1.00	64.34	CS3
ATOM	34711	O	ASP	C	36	210.953	138.402	33.767	1.00	64.34	CS3
ATOM	34712	N	GLN	C	37	212.872	137.305	33.276	1.00	105.60	CS3
ATOM	34713	CA	GLN	C	37	212.215	136.036	33.021	1.00	105.60	CS3
ATOM	34714	CB	GLN	C	37	213.212	135.057	32.386	1.00	108.01	CS3
ATOM	34715	CG	GLN	C	37	212.818	134.577	30.990	1.00	108.01	CS3
ATOM	34716	CD	GLN	C	37	212.300	135.699	30.104	1.00	108.01	CS3
ATOM	34717	OE1	GLN	C	37	212.968	136.719	29.910	1.00	108.01	CS3



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ATOM	34718	NE2	GLN	C	37	211.101	135.512	29.558	1.00108.01	CS3
ATOM	34719	C	GLN	C	37	211.666	135.486	34.330	1.00105.60	CS3
ATOM	34720	O	GLN	C	37	210.468	135.222	34.450	1.00105.60	CS3
ATOM	34721	N	ARG	C	38	212.547	135.321	35.311	1.00 97.90	CS3
ATOM	34722	CA	ARG	C	38	212.139	134.825	36.613	1.00 97.90	CS3
ATOM	34723	CB	ARG	C	38	213.262	135.037	37.621	1.00115.84	CS3
ATOM	34724	CG	ARG	C	38	214.414	134.076	37.444	1.00115.84	CS3
ATOM	34725	CD	ARG	C	38	214.012	132.662	37.849	1.00115.84	CS3
ATOM	34726	NE	ARG	C	38	215.020	131.667	37.485	1.00115.84	CS3
ATOM	34727	CZ	ARG	C	38	216.314	131.757	37.784	1.00115.84	CS3
ATOM	34728	NH1	ARG	C	38	216.773	132.807	38.457	1.00115.84	CS3
ATOM	34729	NH2	ARG	C	38	217.153	130.797	37.409	1.00115.84	CS3
ATOM	34730	C	ARG	C	38	210.914	135.619	37.020	1.00 97.90	CS3
ATOM	34731	O	ARG	C	38	209.919	135.062	37.496	1.00 97.90	CS3
ATOM	34732	N	ILE	C	39	211.001	136.928	36.805	1.00 74.19	CS3
ATOM	34733	CA	ILE	C	39	209.919	137.850	37.115	1.00 74.19	CS3
ATOM	34734	CB	ILE	C	39	210.197	139.254	36.534	1.00 79.87	CS3
ATOM	34735	CG2	ILE	C	39	208.920	140.089	36.534	1.00 79.87	CS3
ATOM	34736	CG1	ILE	C	39	211.315	139.935	37.329	1.00 79.87	CS3
ATOM	34737	CD1	ILE	C	39	211.671	141.333	36.827	1.00 79.87	CS3
ATOM	34738	C	ILE	C	39	208.610	137.351	36.534	1.00 74.19	CS3
ATOM	34739	O	ILE	C	39	207.756	136.832	37.258	1.00 74.19	CS3
ATOM	34740	N	ARG	C	40	208.454	137.512	35.222	1.00 79.32	CS3
ATOM	34741	CA	ARG	C	40	207.236	137.083	34.545	1.00 79.32	CS3
ATOM	34742	CB	ARG	C	40	207.454	137.064	33.033	1.00 66.18	CS3
ATOM	34743	CG	ARG	C	40	207.853	138.408	32.453	1.00 66.18	CS3
ATOM	34744	CD	ARG	C	40	207.726	138.397	30.943	1.00 66.18	CS3
ATOM	34745	NE	ARG	C	40	208.017	139.701	30.358	1.00 66.18	CS3
ATOM	34746	CZ	ARG	C	40	209.182	140.330	30.488	1.00 66.18	CS3
ATOM	34747	NH1	ARG	C	40	210.163	139.769	31.188	1.00 66.18	CS3
ATOM	34748	NH2	ARG	C	40	209.368	141.517	29.915	1.00 66.18	CS3
ATOM	34749	C	ARG	C	40	206.794	135.704	35.025	1.00 79.32	CS3
ATOM	34750	O	ARG	C	40	205.602	135.446	35.188	1.00 79.32	CS3
ATOM	34751	N	GLY	C	41	207.767	134.830	35.260	1.00 86.85	CS3
ATOM	34752	CA	GLY	C	41	207.461	133.493	35.729	1.00 86.85	CS3
ATOM	34753	C	GLY	C	41	206.425	133.497	36.834	1.00 86.85	CS3
ATOM	34754	O	GLY	C	41	205.384	132.850	36.721	1.00 86.85	CS3
ATOM	34755	N	LEU	C	42	206.701	134.236	37.903	1.00104.55	CS3
ATOM	34756	CA	LEU	C	42	205.779	134.310	39.028	1.00104.55	CS3
ATOM	34757	CB	LEU	C	42	206.476	134.913	40.247	1.00142.19	CS3
ATOM	34758	CG	LEU	C	42	207.540	134.027	40.893	1.00142.19	CS3
ATOM	34759	CD1	LEU	C	42	208.193	134.775	42.035	1.00142.19	CS3
ATOM	34760	CD2	LEU	C	42	206.904	132.736	41.391	1.00142.19	CS3
ATOM	34761	C	LEU	C	42	204.525	135.108	38.717	1.00104.55	CS3
ATOM	34762	O	LEU	C	42	203.416	134.657	38.993	1.00104.55	CS3
ATOM	34763	N	LEU	C	43	204.704	136.292	38.142	1.00 90.11	CS3
ATOM	34764	CA	LEU	C	43	203.577	137.156	37.810	1.00 90.11	CS3
ATOM	34765	CB	LEU	C	43	204.047	138.331	36.957	1.00118.80	CS3
ATOM	34766	CG	LEU	C	43	205.332	138.995	37.444	1.00118.80	CS3
ATOM	34767	CD1	LEU	C	43	205.431	140.388	36.836	1.00118.80	CS3
ATOM	34768	CD2	LEU	C	43	205.337	139.074	38.964	1.00118.80	CS3
ATOM	34769	C	LEU	C	43	202.467	136.413	37.077	1.00 90.11	CS3
ATOM	34770	O	LEU	C	43	201.285	136.588	37.382	1.00 90.11	CS3
ATOM	34771	N	GLU	C	44	202.848	135.587	36.109	1.00 99.14	CS3
ATOM	34772	CA	GLU	C	44	201.877	134.819	35.347	1.00 99.14	CS3
ATOM	34773	CB	GLU	C	44	202.523	134.301	34.068	1.00137.16	CS3
ATOM	34774	CG	GLU	C	44	202.868	135.429	33.114	1.00137.16	CS3
ATOM	34775	CD	GLU	C	44	203.693	134.980	31.928	1.00137.16	CS3
ATOM	34776	OE1	GLU	C	44	203.252	134.057	31.208	1.00137.16	CS3
ATOM	34777	OE2	GLU	C	44	204.782	135.558	31.712	1.00137.16	CS3
ATOM	34778	C	GLU	C	44	201.327	133.676	36.190	1.00 99.14	CS3
ATOM	34779	O	GLU	C	44	200.113	133.510	36.298	1.00 99.14	CS3
ATOM	34780	N	LYS	C	45	202.218	132.897	36.797	1.00129.13	CS3
ATOM	34781	CA	LYS	C	45	201.801	131.788	37.650	1.00129.13	CS3
ATOM	34782	CB	LYS	C	45	203.000	131.225	38.418	1.00132.32	CS3
ATOM	34783	CG	LYS	C	45	203.772	130.146	37.683	1.00132.32	CS3
ATOM	34784	CD	LYS	C	45	202.937	128.883	37.551	1.00132.32	CS3
ATOM	34785	CE	LYS	C	45	203.741	127.739	36.953	1.00132.32	CS3
ATOM	34786	NZ	LYS	C	45	202.968	126.462	36.965	1.00132.32	CS3
ATOM	34787	C	LYS	C	45	200.755	132.279	38.644	1.00129.13	CS3
ATOM	34788	O	LYS	C	45	199.768	131.596	38.915	1.00129.13	CS3
ATOM	34789	N	GLU	C	46	200.981	133.476	39.177	1.00 99.03	CS3
ATOM	34790	CA	GLU	C	46	200.076	134.076	40.149	1.00 99.03	CS3
ATOM	34791	CB	GLU	C	46	200.848	135.040	41.055	1.00198.94	CS3
ATOM	34792	CG	GLU	C	46	201.947	134.398	41.895	1.00198.94	CS3
ATOM	34793	CD	GLU	C	46	201.409	133.619	43.084	1.00198.94	CS3
ATOM	34794	OE1	GLU	C	46	200.672	134.212	43.901	1.00198.94	CS3



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ATOM	34795	OE2	GLU	C	46	201.728	132.418	43.210	1.00198.94	CS3
ATOM	34796	C	GLU	C	46	198.940	134.832	39.469	1.00 99.03	CS3
ATOM	34797	O	GLU	C	46	197.874	134.270	39.194	1.00 99.03	CS3
ATOM	34798	N	LEU	C	47	199.200	136.112	39.210	1.00 69.26	CS3
ATOM	34799	CA	LEU	C	47	198.264	137.043	38.583	1.00 69.26	CS3
ATOM	34800	CB	LEU	C	47	199.024	138.296	38.132	1.00 83.80	CS3
ATOM	34801	CG	LEU	C	47	199.469	139.316	39.183	1.00 83.80	CS3
ATOM	34802	CD1	LEU	C	47	200.293	138.612	40.257	1.00 83.80	CS3
ATOM	34803	CD2	LEU	C	47	200.256	140.443	38.505	1.00 83.80	CS3
ATOM	34804	C	LEU	C	47	197.405	136.562	37.406	1.00 69.26	CS3
ATOM	34805	O	LEU	C	47	196.848	137.385	36.668	1.00 69.26	CS3
ATOM	34806	N	TYR	C	48	197.276	135.254	37.220	1.00103.45	CS3
ATOM	34807	CA	TYR	C	48	196.481	134.753	36.107	1.00103.45	CS3
ATOM	34808	CB	TYR	C	48	196.419	133.222	36.147	1.00118.24	CS3
ATOM	34809	CG	TYR	C	48	195.631	132.609	35.005	1.00118.24	CS3
ATOM	34810	CD1	TYR	C	48	195.515	133.265	33.773	1.00118.24	CS3
ATOM	34811	CE1	TYR	C	48	194.799	132.700	32.716	1.00118.24	CS3
ATOM	34812	CD2	TYR	C	48	195.014	131.368	35.148	1.00118.24	CS3
ATOM	34813	CE2	TYR	C	48	194.299	130.792	34.096	1.00118.24	CS3
ATOM	34814	CZ	TYR	C	48	194.196	131.462	32.885	1.00118.24	CS3
ATOM	34815	OH	TYR	C	48	193.493	130.891	31.848	1.00118.24	CS3
ATOM	34816	C	TYR	C	48	195.069	135.334	36.103	1.00103.45	CS3
ATOM	34817	O	TYR	C	48	194.696	136.091	35.194	1.00103.45	CS3
ATOM	34818	N	SER	C	49	194.307	134.984	37.136	1.00 89.14	CS3
ATOM	34819	CA	SER	C	49	192.920	135.418	37.294	1.00 89.14	CS3
ATOM	34820	CB	SER	C	49	192.292	134.701	38.489	1.00143.63	CS3
ATOM	34821	OG	SER	C	49	193.074	134.888	39.654	1.00143.63	CS3
ATOM	34822	C	SER	C	49	192.709	136.921	37.441	1.00 89.14	CS3
ATOM	34823	O	SER	C	49	191.692	137.359	37.979	1.00 89.14	CS3
ATOM	34824	N	ALA	C	50	193.666	137.708	36.959	1.00 56.19	CS3
ATOM	34825	CA	ALA	C	50	193.568	139.163	37.024	1.00 56.19	CS3
ATOM	34826	CB	ALA	C	50	194.783	139.740	37.732	1.00 99.24	CS3
ATOM	34827	C	ALA	C	50	193.496	139.704	35.611	1.00 56.19	CS3
ATOM	34828	O	ALA	C	50	193.023	140.822	35.375	1.00 56.19	CS3
ATOM	34829	N	GLY	C	51	193.973	138.886	34.678	1.00116.60	CS3
ATOM	34830	CA	GLY	C	51	193.984	139.272	33.285	1.00116.60	CS3
ATOM	34831	C	GLY	C	51	195.315	139.902	32.932	1.00116.60	CS3
ATOM	34832	O	GLY	C	51	195.382	141.085	32.598	1.00116.60	CS3
ATOM	34833	N	LEU	C	52	196.379	139.110	33.026	1.00101.89	CS3
ATOM	34834	CA	LEU	C	52	197.731	139.566	32.704	1.00101.89	CS3
ATOM	34835	CB	LEU	C	52	198.720	138.431	32.928	1.00 94.54	CS3
ATOM	34836	CG	LEU	C	52	198.266	137.143	32.232	1.00 94.54	CS3
ATOM	34837	CD1	LEU	C	52	199.463	136.215	32.004	1.00 94.54	CS3
ATOM	34838	CD2	LEU	C	52	197.164	136.473	33.067	1.00 94.54	CS3
ATOM	34839	C	LEU	C	52	197.784	139.983	31.241	1.00101.89	CS3
ATOM	34840	O	LEU	C	52	197.235	139.301	30.386	1.00101.89	CS3
ATOM	34841	N	ALA	C	53	198.450	141.090	30.940	1.00103.21	CS3
ATOM	34842	CA	ALA	C	53	198.520	141.537	29.555	1.00103.21	CS3
ATOM	34843	CB	ALA	C	53	197.593	142.743	29.342	1.00 48.85	CS3
ATOM	34844	C	ALA	C	53	199.930	141.868	29.075	1.00103.21	CS3
ATOM	34845	O	ALA	C	53	200.276	141.561	27.938	1.00103.21	CS3
ATOM	34846	N	ARG	C	54	200.743	142.491	29.925	1.00105.01	CS3
ATOM	34847	CA	ARG	C	54	202.106	142.843	29.531	1.00105.01	CS3
ATOM	34848	CB	ARG	C	54	202.074	143.942	28.466	1.00119.53	CS3
ATOM	34849	CG	ARG	C	54	203.413	144.202	27.801	1.00119.53	CS3
ATOM	34850	CD	ARG	C	54	203.306	145.340	26.814	1.00119.53	CS3
ATOM	34851	NE	ARG	C	54	204.574	145.602	26.145	1.00119.53	CS3
ATOM	34852	CZ	ARG	C	54	204.826	146.687	25.417	1.00119.53	CS3
ATOM	34853	NH1	ARG	C	54	203.895	147.621	25.262	1.00119.53	CS3
ATOM	34854	NH2	ARG	C	54	206.008	146.840	24.836	1.00119.53	CS3
ATOM	34855	C	ARG	C	54	202.960	143.303	30.706	1.00105.01	CS3
ATOM	34856	O	ARG	C	54	202.744	144.382	31.251	1.00105.01	CS3
ATOM	34857	N	VAL	C	55	203.936	142.485	31.086	1.00 73.19	CS3
ATOM	34858	CA	VAL	C	55	204.817	142.815	32.197	1.00 73.19	CS3
ATOM	34859	CB	VAL	C	55	205.396	141.545	32.867	1.00 73.51	CS3
ATOM	34860	CG1	VAL	C	55	206.309	141.936	34.034	1.00 73.51	CS3
ATOM	34861	CG2	VAL	C	55	204.273	140.653	33.356	1.00 73.51	CS3
ATOM	34862	C	VAL	C	55	205.989	143.683	31.761	1.00 73.19	CS3
ATOM	34863	O	VAL	C	55	207.096	143.180	31.581	1.00 73.19	CS3
ATOM	34864	N	ASP	C	56	205.753	144.980	31.591	1.00 97.16	CS3
ATOM	34865	CA	ASP	C	56	206.821	145.897	31.200	1.00 97.16	CS3
ATOM	34866	CB	ASP	C	56	206.261	147.305	30.999	1.00125.39	CS3
ATOM	34867	CG	ASP	C	56	205.318	147.386	29.824	1.00125.39	CS3
ATOM	34868	OD1	ASP	C	56	204.474	146.478	29.683	1.00125.39	CS3
ATOM	34869	OD2	ASP	C	56	205.416	148.356	29.046	1.00125.39	CS3
ATOM	34870	C	ASP	C	56	207.880	145.915	32.300	1.00 97.16	CS3
ATOM	34871	O	ASP	C	56	207.570	145.665	33.464	1.00 97.16	CS3



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ATOM	34872	N	ILE	C	57	209.126	146.200	31.937	1.00110.95	CS3
ATOM	34873	CA	ILE	C	57	210.204	146.240	32.924	1.00110.95	CS3
ATOM	34874	CB	ILE	C	57	210.790	144.819	33.194	1.00 48.12	CS3
ATOM	34875	CG2	ILE	C	57	212.022	144.924	34.105	1.00 48.12	CS3
ATOM	34876	CG1	ILE	C	57	209.720	143.913	33.826	1.00 48.12	CS3
ATOM	34877	CD1	ILE	C	57	210.220	142.509	34.151	1.00 48.12	CS3
ATOM	34878	C	ILE	C	57	211.349	147.174	32.524	1.00110.95	CS3
ATOM	34879	O	ILE	C	57	212.035	146.952	31.523	1.00110.95	CS3
ATOM	34880	N	GLU	C	58	211.544	148.219	33.324	1.00101.65	CS3
ATOM	34881	CA	GLU	C	58	212.600	149.194	33.092	1.00101.65	CS3
ATOM	34882	CB	GLU	C	58	212.010	150.594	33.034	1.00135.78	CS3
ATOM	34883	CG	GLU	C	58	211.086	150.793	31.864	1.00135.78	CS3
ATOM	34884	CD	GLU	C	58	210.338	152.098	31.944	1.00135.78	CS3
ATOM	34885	OE1	GLU	C	58	209.570	152.268	32.914	1.00135.78	CS3
ATOM	34886	OE2	GLU	C	58	210.517	152.949	31.043	1.00135.78	CS3
ATOM	34887	C	GLU	C	58	213.588	149.103	34.237	1.00101.65	CS3
ATOM	34888	O	GLU	C	58	213.283	148.515	35.276	1.00101.65	CS3
ATOM	34889	N	ARG	C	59	214.775	149.669	34.049	1.00 91.54	CS3
ATOM	34890	CA	ARG	C	59	215.791	149.643	35.094	1.00 91.54	CS3
ATOM	34891	CB	ARG	C	59	216.545	148.313	35.092	1.00 79.77	CS3
ATOM	34892	CG	ARG	C	59	215.702	147.098	35.392	1.00 79.77	CS3
ATOM	34893	CD	ARG	C	59	216.583	145.884	35.558	1.00 79.77	CS3
ATOM	34894	NE	ARG	C	59	215.805	144.661	35.693	1.00 79.77	CS3
ATOM	34895	CZ	ARG	C	59	216.257	143.551	36.271	1.00 79.77	CS3
ATOM	34896	NH1	ARG	C	59	217.489	143.510	36.772	1.00 79.77	CS3
ATOM	34897	NH2	ARG	C	59	215.472	142.485	36.364	1.00 79.77	CS3
ATOM	34898	C	ARG	C	59	216.795	150.774	34.941	1.00 91.54	CS3
ATOM	34899	O	ARG	C	59	216.808	151.474	33.924	1.00 91.54	CS3
ATOM	34900	N	ALA	C	60	217.629	150.940	35.969	1.00163.68	CS3
ATOM	34901	CA	ALA	C	60	218.675	151.963	36.008	1.00163.68	CS3
ATOM	34902	CB	ALA	C	60	218.116	153.287	36.539	1.00106.54	CS3
ATOM	34903	C	ALA	C	60	219.813	151.478	36.904	1.00163.68	CS3
ATOM	34904	O	ALA	C	60	220.967	151.867	36.716	1.00163.68	CS3
ATOM	34905	N	ALA	C	61	219.469	150.628	37.871	1.00139.04	CS3
ATOM	34906	CA	ALA	C	61	220.427	150.053	38.817	1.00139.04	CS3
ATOM	34907	CB	ALA	C	61	221.501	151.071	39.182	1.00126.78	CS3
ATOM	34908	C	ALA	C	61	219.718	149.587	40.083	1.00139.04	CS3
ATOM	34909	O	ALA	C	61	219.083	150.386	40.773	1.00139.04	CS3
ATOM	34910	N	ASP	C	62	219.833	148.293	40.376	1.00160.18	CS3
ATOM	34911	CA	ASP	C	62	219.226	147.681	41.560	1.00160.18	CS3
ATOM	34912	CB	ASP	C	62	220.256	147.627	42.687	1.00148.73	CS3
ATOM	34913	CG	ASP	C	62	221.545	146.965	42.254	1.00148.73	CS3
ATOM	34914	OD1	ASP	C	62	221.501	145.777	41.872	1.00148.73	CS3
ATOM	34915	OD2	ASP	C	62	222.600	147.634	42.287	1.00148.73	CS3
ATOM	34916	C	ASP	C	62	217.953	148.373	42.050	1.00160.18	CS3
ATOM	34917	O	ASP	C	62	217.821	148.702	43.231	1.00160.18	CS3
ATOM	34918	N	ASN	C	63	217.027	148.587	41.120	1.00198.94	CS3
ATOM	34919	CA	ASN	C	63	215.735	149.221	41.381	1.00198.94	CS3
ATOM	34920	CB	ASN	C	63	215.905	150.702	41.734	1.00159.91	CS3
ATOM	34921	CG	ASN	C	63	215.989	150.940	43.232	1.00159.91	CS3
ATOM	34922	OD1	ASN	C	63	215.030	150.695	43.968	1.00159.91	CS3
ATOM	34923	ND2	ASN	C	63	217.139	151.418	43.691	1.00159.91	CS3
ATOM	34924	C	ASN	C	63	214.930	149.076	40.100	1.00198.94	CS3
ATOM	34925	O	ASN	C	63	214.948	149.947	39.233	1.00198.94	CS3
ATOM	34926	N	VAL	C	64	214.224	147.959	39.993	1.00135.59	CS3
ATOM	34927	CA	VAL	C	64	213.433	147.645	38.814	1.00135.59	CS3
ATOM	34928	CB	VAL	C	64	213.271	146.136	38.703	1.00 93.32	CS3
ATOM	34929	CG1	VAL	C	64	213.253	145.726	37.241	1.00 93.32	CS3
ATOM	34930	CG2	VAL	C	64	214.392	145.444	39.465	1.00 93.32	CS3
ATOM	34931	C	VAL	C	64	212.048	148.293	38.785	1.00135.59	CS3
ATOM	34932	O	VAL	C	64	211.583	148.825	39.790	1.00135.59	CS3
ATOM	34933	N	ALA	C	65	211.392	148.238	37.628	1.00162.30	CS3
ATOM	34934	CA	ALA	C	65	210.060	148.820	37.463	1.00162.30	CS3
ATOM	34935	CB	ALA	C	65	209.925	149.435	36.066	1.00 65.58	CS3
ATOM	34936	C	ALA	C	65	208.953	147.790	37.688	1.00162.30	CS3
ATOM	34937	O	ALA	C	65	208.250	147.828	38.699	1.00162.30	CS3
ATOM	34938	N	VAL	C	66	208.802	146.877	36.734	1.00 75.83	CS3
ATOM	34939	CA	VAL	C	66	207.791	145.824	36.800	1.00 75.83	CS3
ATOM	34940	CB	VAL	C	66	208.021	144.918	38.029	1.00 53.07	CS3
ATOM	34941	CG1	VAL	C	66	207.087	143.705	37.973	1.00 53.07	CS3
ATOM	34942	CG2	VAL	C	66	209.466	144.469	38.065	1.00 53.07	CS3
ATOM	34943	C	VAL	C	66	206.376	146.401	36.837	1.00 75.83	CS3
ATOM	34944	O	VAL	C	66	205.633	146.209	37.794	1.00 75.83	CS3
ATOM	34945	N	THR	C	67	206.012	147.093	35.765	1.00 81.00	CS3
ATOM	34946	CA	THR	C	67	204.708	147.733	35.629	1.00 81.00	CS3
ATOM	34947	CB	THR	C	67	204.821	148.914	34.652	1.00 71.79	CS3
ATOM	34948	OG1	THR	C	67	206.052	149.607	34.897	1.00 71.79	CS3



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ATOM	34949	CG2	THR	C	67	203.653	149.874	34.822	1.00	71.79	CS3
ATOM	34950	C	THR	C	67	203.600	146.790	35.131	1.00	81.00	CS3
ATOM	34951	O	THR	C	67	202.935	147.083	34.143	1.00	81.00	CS3
ATOM	34952	N	VAL	C	68	203.394	145.672	35.818	1.00	60.03	CS3
ATOM	34953	CA	VAL	C	68	202.373	144.696	35.428	1.00	60.03	CS3
ATOM	34954	CB	VAL	C	68	202.117	143.697	36.574	1.00	87.05	CS3
ATOM	34955	CG1	VAL	C	68	200.986	142.751	36.204	1.00	87.05	CS3
ATOM	34956	CG2	VAL	C	68	203.390	142.922	36.882	1.00	87.05	CS3
ATOM	34957	C	VAL	C	68	201.027	145.298	35.028	1.00	60.03	CS3
ATOM	34958	O	VAL	C	68	200.505	146.167	35.722	1.00	60.03	CS3
ATOM	34959	N	HIS	C	69	200.462	144.824	33.916	1.00	105.43	CS3
ATOM	34960	CA	HIS	C	69	199.151	145.296	33.441	1.00	105.43	CS3
ATOM	34961	CB	HIS	C	69	199.215	145.735	31.982	1.00	76.92	CS3
ATOM	34962	CG	HIS	C	69	200.152	146.871	31.735	1.00	76.92	CS3
ATOM	34963	CD2	HIS	C	69	201.447	147.047	32.084	1.00	76.92	CS3
ATOM	34964	ND1	HIS	C	69	199.788	147.998	31.030	1.00	76.92	CS3
ATOM	34965	CE1	HIS	C	69	200.819	148.821	30.957	1.00	76.92	CS3
ATOM	34966	NE2	HIS	C	69	201.839	148.267	31.589	1.00	76.92	CS3
ATOM	34967	C	HIS	C	69	198.079	144.215	33.569	1.00	105.43	CS3
ATOM	34968	O	HIS	C	69	198.294	143.062	33.187	1.00	105.43	CS3
ATOM	34969	N	VAL	C	70	196.919	144.598	34.093	1.00	113.60	CS3
ATOM	34970	CA	VAL	C	70	195.823	143.654	34.285	1.00	113.60	CS3
ATOM	34971	CB	VAL	C	70	195.806	143.131	35.733	1.00	103.64	CS3
ATOM	34972	CG1	VAL	C	70	196.772	141.970	35.878	1.00	103.64	CS3
ATOM	34973	CG2	VAL	C	70	196.194	144.262	36.690	1.00	103.64	CS3
ATOM	34974	C	VAL	C	70	194.456	144.244	33.967	1.00	113.60	CS3
ATOM	34975	O	VAL	C	70	194.289	145.459	33.921	1.00	113.60	CS3
ATOM	34976	N	ALA	C	71	193.482	143.365	33.747	1.00	109.45	CS3
ATOM	34977	CA	ALA	C	71	192.120	143.780	33.438	1.00	109.45	CS3
ATOM	34978	CB	ALA	C	71	191.448	142.735	32.574	1.00	90.90	CS3
ATOM	34979	C	ALA	C	71	191.325	143.983	34.724	1.00	109.45	CS3
ATOM	34980	O	ALA	C	71	190.308	144.682	34.730	1.00	109.45	CS3
ATOM	34981	N	LYS	C	72	191.794	143.357	35.805	1.00	91.66	CS3
ATOM	34982	CA	LYS	C	72	191.166	143.456	37.127	1.00	91.66	CS3
ATOM	34983	CB	LYS	C	72	190.479	142.138	37.487	1.00	123.10	CS3
ATOM	34984	CG	LYS	C	72	189.597	141.577	36.389	1.00	123.10	CS3
ATOM	34985	CD	LYS	C	72	188.736	140.445	36.911	1.00	123.10	CS3
ATOM	34986	CE	LYS	C	72	187.745	140.954	37.951	1.00	123.10	CS3
ATOM	34987	NZ	LYS	C	72	186.865	139.869	38.474	1.00	123.10	CS3
ATOM	34988	C	LYS	C	72	192.236	143.773	38.180	1.00	91.66	CS3
ATOM	34989	O	LYS	C	72	192.648	142.895	38.947	1.00	91.66	CS3
ATOM	34990	N	PRO	C	73	192.687	145.038	38.238	1.00	100.17	CS3
ATOM	34991	CD	PRO	C	73	192.051	146.222	37.638	1.00	66.77	CS3
ATOM	34992	CA	PRO	C	73	193.715	145.443	39.202	1.00	100.17	CS3
ATOM	34993	CB	PRO	C	73	193.761	146.960	39.043	1.00	66.77	CS3
ATOM	34994	CG	PRO	C	73	192.365	147.293	38.648	1.00	66.77	CS3
ATOM	34995	C	PRO	C	73	193.356	145.017	40.609	1.00	100.17	CS3
ATOM	34996	O	PRO	C	73	194.230	144.800	41.447	1.00	100.17	CS3
ATOM	34997	N	GLY	C	74	192.057	144.892	40.855	1.00	100.04	CS3
ATOM	34998	CA	GLY	C	74	191.597	144.487	42.166	1.00	100.04	CS3
ATOM	34999	C	GLY	C	74	192.258	143.197	42.599	1.00	100.04	CS3
ATOM	35000	O	GLY	C	74	192.746	143.070	43.723	1.00	100.04	CS3
ATOM	35001	N	VAL	C	75	192.290	142.234	41.691	1.00	77.31	CS3
ATOM	35002	CA	VAL	C	75	192.883	140.948	41.999	1.00	77.31	CS3
ATOM	35003	CB	VAL	C	75	192.743	140.002	40.793	1.00	119.03	CS3
ATOM	35004	CG1	VAL	C	75	192.851	138.553	41.251	1.00	119.03	CS3
ATOM	35005	CG2	VAL	C	75	191.409	140.251	40.096	1.00	119.03	CS3
ATOM	35006	C	VAL	C	75	194.360	141.104	42.388	1.00	77.31	CS3
ATOM	35007	O	VAL	C	75	194.814	140.539	43.388	1.00	77.31	CS3
ATOM	35008	N	VAL	C	76	195.098	141.879	41.596	1.00	160.69	CS3
ATOM	35009	CA	VAL	C	76	196.515	142.115	41.860	1.00	160.69	CS3
ATOM	35010	CB	VAL	C	76	197.125	143.127	40.843	1.00	103.37	CS3
ATOM	35011	CG1	VAL	C	76	198.524	143.536	41.277	1.00	103.37	CS3
ATOM	35012	CG2	VAL	C	76	197.185	142.504	39.461	1.00	103.37	CS3
ATOM	35013	C	VAL	C	76	196.688	142.664	43.271	1.00	160.69	CS3
ATOM	35014	O	VAL	C	76	197.109	141.947	44.180	1.00	160.69	CS3
ATOM	35015	N	ILE	C	77	196.345	143.939	43.438	1.00	156.59	CS3
ATOM	35016	CA	ILE	C	77	196.458	144.630	44.719	1.00	156.59	CS3
ATOM	35017	CB	ILE	C	77	195.535	145.859	44.780	1.00	96.85	CS3
ATOM	35018	CG2	ILE	C	77	195.733	146.574	46.105	1.00	96.85	CS3
ATOM	35019	CG1	ILE	C	77	195.812	146.795	43.597	1.00	96.85	CS3
ATOM	35020	CD1	ILE	C	77	197.230	147.345	43.546	1.00	96.85	CS3
ATOM	35021	C	ILE	C	77	196.110	143.751	45.907	1.00	156.59	CS3
ATOM	35022	O	ILE	C	77	196.989	143.250	46.604	1.00	156.59	CS3
ATOM	35023	N	GLY	C	78	194.815	143.574	46.134	1.00	172.72	CS3
ATOM	35024	CA	GLY	C	78	194.363	142.770	47.251	1.00	172.72	CS3
ATOM	35025	C	GLY	C	78	193.568	143.630	48.213	1.00	172.72	CS3



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ATOM	35026	O	GLY	C	78	193.495	144.850	48.042	1.00172.72	CS3
ATOM	35027	N	ARG	C	79	192.973	143.003	49.225	1.00142.95	CS3
ATOM	35028	CA	ARG	C	79	192.177	143.731	50.205	1.00142.95	CS3
ATOM	35029	CB	ARG	C	79	191.664	142.774	51.283	1.00194.22	CS3
ATOM	35030	CG	ARG	C	79	192.746	142.041	52.036	1.00194.22	CS3
ATOM	35031	CD	ARG	C	79	192.140	141.010	52.959	1.00194.22	CS3
ATOM	35032	NE	ARG	C	79	193.128	140.453	53.875	1.00194.22	CS3
ATOM	35033	CZ	ARG	C	79	192.862	139.517	54.781	1.00194.22	CS3
ATOM	35034	NH1	ARG	C	79	191.634	139.026	54.893	1.00194.22	CS3
ATOM	35035	NH2	ARG	C	79	193.823	139.075	55.582	1.00194.22	CS3
ATOM	35036	C	ARG	C	79	192.986	144.865	50.828	1.00142.95	CS3
ATOM	35037	O	ARG	C	79	193.865	144.640	51.667	1.00142.95	CS3
ATOM	35038	N	GLY	C	80	192.680	146.085	50.393	1.00131.48	CS3
ATOM	35039	CA	GLY	C	80	193.373	147.259	50.885	1.00131.48	CS3
ATOM	35040	C	GLY	C	80	194.742	147.372	50.250	1.00131.48	CS3
ATOM	35041	O	GLY	C	80	195.284	148.468	50.096	1.00131.48	CS3
ATOM	35042	N	GLY	C	81	195.291	146.221	49.872	1.00128.47	CS3
ATOM	35043	CA	GLY	C	81	196.605	146.169	49.257	1.00128.47	CS3
ATOM	35044	C	GLY	C	81	197.481	145.170	49.988	1.00128.47	CS3
ATOM	35045	O	GLY	C	81	198.704	145.307	50.017	1.00128.47	CS3
ATOM	35046	N	GLU	C	82	196.850	144.156	50.577	1.00174.48	CS3
ATOM	35047	CA	GLU	C	82	197.573	143.137	51.328	1.00174.48	CS3
ATOM	35048	CB	GLU	C	82	196.603	142.361	52.234	1.00157.95	CS3
ATOM	35049	CG	GLU	C	82	195.849	141.217	51.567	1.00157.95	CS3
ATOM	35050	CD	GLU	C	82	196.671	139.938	51.483	1.00157.95	CS3
ATOM	35051	OE1	GLU	C	82	197.149	139.468	52.538	1.00157.95	CS3
ATOM	35052	OE2	GLU	C	82	196.836	139.397	50.368	1.00157.95	CS3
ATOM	35053	C	GLU	C	82	198.348	142.173	50.429	1.00174.48	CS3
ATOM	35054	O	GLU	C	82	199.420	141.703	50.806	1.00174.48	CS3
ATOM	35055	N	ARG	C	83	197.814	141.879	49.245	1.00115.96	CS3
ATOM	35056	CA	ARG	C	83	198.492	140.971	48.324	1.00115.96	CS3
ATOM	35057	CB	ARG	C	83	197.513	140.385	47.310	1.00122.72	CS3
ATOM	35058	CG	ARG	C	83	198.201	139.577	46.231	1.00122.72	CS3
ATOM	35059	CD	ARG	C	83	197.214	138.820	45.371	1.00122.72	CS3
ATOM	35060	NE	ARG	C	83	197.877	138.170	44.245	1.00122.72	CS3
ATOM	35061	CZ	ARG	C	83	197.363	137.157	43.553	1.00122.72	CS3
ATOM	35062	NH1	ARG	C	83	196.171	136.664	43.872	1.00122.72	CS3
ATOM	35063	NH2	ARG	C	83	198.041	136.636	42.538	1.00122.72	CS3
ATOM	35064	C	ARG	C	83	199.618	141.681	47.592	1.00115.96	CS3
ATOM	35065	O	ARG	C	83	200.717	141.144	47.475	1.00115.96	CS3
ATOM	35066	N	ILE	C	84	199.345	142.889	47.100	1.00 78.96	CS3
ATOM	35067	CA	ILE	C	84	200.353	143.676	46.394	1.00 78.96	CS3
ATOM	35068	CB	ILE	C	84	199.767	145.030	45.892	1.00 96.03	CS3
ATOM	35069	CG2	ILE	C	84	199.054	145.745	47.026	1.00 96.03	CS3
ATOM	35070	CG1	ILE	C	84	200.879	145.891	45.276	1.00 96.03	CS3
ATOM	35071	CD1	ILE	C	84	200.389	147.146	44.585	1.00 96.03	CS3
ATOM	35072	C	ILE	C	84	201.514	143.919	47.355	1.00 78.96	CS3
ATOM	35073	O	ILE	C	84	202.520	144.533	47.011	1.00 78.96	CS3
ATOM	35074	N	ARG	C	85	201.342	143.418	48.573	1.00120.85	CS3
ATOM	35075	CA	ARG	C	85	202.338	143.513	49.628	1.00120.85	CS3
ATOM	35076	CB	ARG	C	85	201.641	143.797	50.965	1.00196.81	CS3
ATOM	35077	CG	ARG	C	85	202.326	143.232	52.200	1.00196.81	CS3
ATOM	35078	CD	ARG	C	85	203.736	143.754	52.362	1.00196.81	CS3
ATOM	35079	NE	ARG	C	85	204.337	143.275	53.601	1.00196.81	CS3
ATOM	35080	CZ	ARG	C	85	205.600	143.491	53.950	1.00196.81	CS3
ATOM	35081	NH1	ARG	C	85	206.403	144.180	53.151	1.00196.81	CS3
ATOM	35082	NH2	ARG	C	85	206.059	143.024	55.102	1.00196.81	CS3
ATOM	35083	C	ARG	C	85	203.057	142.167	49.663	1.00120.85	CS3
ATOM	35084	O	ARG	C	85	204.269	142.100	49.873	1.00120.85	CS3
ATOM	35085	N	VAL	C	86	202.293	141.099	49.453	1.00134.01	CS3
ATOM	35086	CA	VAL	C	86	202.842	139.749	49.435	1.00134.01	CS3
ATOM	35087	CB	VAL	C	86	201.728	138.677	49.397	1.00134.39	CS3
ATOM	35088	CG1	VAL	C	86	202.313	137.309	49.709	1.00134.39	CS3
ATOM	35089	CG2	VAL	C	86	200.629	139.023	50.380	1.00134.39	CS3
ATOM	35090	C	VAL	C	86	203.653	139.638	48.154	1.00134.01	CS3
ATOM	35091	O	VAL	C	86	204.837	139.301	48.177	1.00134.01	CS3
ATOM	35092	N	LEU	C	87	202.998	139.934	47.035	1.00154.87	CS3
ATOM	35093	CA	LEU	C	87	203.640	139.886	45.731	1.00154.87	CS3
ATOM	35094	CB	LEU	C	87	202.677	140.365	44.638	1.00 99.69	CS3
ATOM	35095	CG	LEU	C	87	201.338	139.631	44.509	1.00 99.69	CS3
ATOM	35096	CD1	LEU	C	87	200.570	140.191	43.321	1.00 99.69	CS3
ATOM	35097	CD2	LEU	C	87	201.569	138.136	44.340	1.00 99.69	CS3
ATOM	35098	C	LEU	C	87	204.867	140.782	45.751	1.00154.87	CS3
ATOM	35099	O	LEU	C	87	205.990	140.311	45.584	1.00154.87	CS3
ATOM	35100	N	ARG	C	88	204.641	142.075	45.969	1.00 97.99	CS3
ATOM	35101	CA	ARG	C	88	205.721	143.060	46.013	1.00 97.99	CS3
ATOM	35102	CB	ARG	C	88	205.182	144.390	46.545	1.00173.83	CS3



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ATOM	35103	CG	ARG	C	88	205.726	145.621	45.842	1.00173.83	CS3
ATOM	35104	CD	ARG	C	88	204.707	146.755	45.885	1.00173.83	CS3
ATOM	35105	NE	ARG	C	88	205.125	147.908	45.091	1.00173.83	CS3
ATOM	35106	CZ	ARG	C	88	204.322	148.910	44.744	1.00173.83	CS3
ATOM	35107	NH1	ARG	C	88	203.049	148.903	45.120	1.00173.83	CS3
ATOM	35108	NH2	ARG	C	88	204.789	149.918	44.017	1.00173.83	CS3
ATOM	35109	C	ARG	C	88	206.878	142.577	46.890	1.00 97.99	CS3
ATOM	35110	O	ARG	C	88	208.008	143.059	46.766	1.00 97.99	CS3
ATOM	35111	N	GLU	C	89	206.583	141.619	47.766	1.00152.31	CS3
ATOM	35112	CA	GLU	C	89	207.583	141.058	48.666	1.00152.31	CS3
ATOM	35113	CB	GLU	C	89	206.960	140.763	50.027	1.00163.65	CS3
ATOM	35114	CG	GLU	C	89	207.934	140.170	51.015	1.00163.65	CS3
ATOM	35115	CD	GLU	C	89	207.383	140.162	52.416	1.00163.65	CS3
ATOM	35116	OE1	GLU	C	89	206.275	139.619	52.613	1.00163.65	CS3
ATOM	35117	OE2	GLU	C	89	208.056	140.700	53.320	1.00163.65	CS3
ATOM	35118	C	GLU	C	89	208.216	139.789	48.106	1.00152.31	CS3
ATOM	35119	O	GLU	C	89	209.439	139.663	48.086	1.00152.31	CS3
ATOM	35120	N	GLU	C	90	207.387	138.846	47.664	1.00125.36	CS3
ATOM	35121	CA	GLU	C	90	207.886	137.599	47.081	1.00125.36	CS3
ATOM	35122	CB	GLU	C	90	206.750	136.875	46.352	1.00175.36	CS3
ATOM	35123	CG	GLU	C	90	206.481	135.445	46.809	1.00175.36	CS3
ATOM	35124	CD	GLU	C	90	207.647	134.502	46.555	1.00175.36	CS3
ATOM	35125	OE1	GLU	C	90	207.447	133.274	46.671	1.00175.36	CS3
ATOM	35126	OE2	GLU	C	90	208.761	134.981	46.247	1.00175.36	CS3
ATOM	35127	C	GLU	C	90	208.980	137.982	46.080	1.00125.36	CS3
ATOM	35128	O	GLU	C	90	209.986	137.285	45.919	1.00125.36	CS3
ATOM	35129	N	LEU	C	91	208.749	139.118	45.425	1.00115.10	CS3
ATOM	35130	CA	LEU	C	91	209.636	139.708	44.429	1.00115.10	CS3
ATOM	35131	CB	LEU	C	91	209.144	141.127	44.120	1.00103.79	CS3
ATOM	35132	CG	LEU	C	91	210.079	142.268	43.708	1.00103.79	CS3
ATOM	35133	CD1	LEU	C	91	209.213	143.355	43.107	1.00103.79	CS3
ATOM	35134	CD2	LEU	C	91	210.883	142.821	44.891	1.00103.79	CS3
ATOM	35135	C	LEU	C	91	211.108	139.733	44.828	1.00115.10	CS3
ATOM	35136	O	LEU	C	91	211.961	139.238	44.093	1.00115.10	CS3
ATOM	35137	N	ALA	C	92	211.412	140.314	45.984	1.00143.63	CS3
ATOM	35138	CA	ALA	C	92	212.795	140.389	46.442	1.00143.63	CS3
ATOM	35139	CB	ALA	C	92	212.930	141.436	47.537	1.00116.95	CS3
ATOM	35140	C	ALA	C	92	213.286	139.029	46.937	1.00143.63	CS3
ATOM	35141	O	ALA	C	92	214.488	138.822	47.112	1.00143.63	CS3
ATOM	35142	N	LYS	C	93	212.353	138.108	47.168	1.00164.88	CS3
ATOM	35143	CA	LYS	C	93	212.696	136.758	47.608	1.00164.88	CS3
ATOM	35144	CB	LYS	C	93	211.473	136.063	48.206	1.00136.79	CS3
ATOM	35145	CG	LYS	C	93	211.152	136.486	49.619	1.00136.79	CS3
ATOM	35146	CD	LYS	C	93	212.265	136.072	50.562	1.00136.79	CS3
ATOM	35147	CE	LYS	C	93	211.940	136.443	51.995	1.00136.79	CS3
ATOM	35148	NZ	LYS	C	93	213.013	135.996	52.926	1.00136.79	CS3
ATOM	35149	C	LYS	C	93	213.146	136.004	46.370	1.00164.88	CS3
ATOM	35150	O	LYS	C	93	213.157	134.774	46.334	1.00164.88	CS3
ATOM	35151	N	LEU	C	94	213.524	136.774	45.358	1.00108.66	CS3
ATOM	35152	CA	LEU	C	94	213.950	136.245	44.076	1.00108.66	CS3
ATOM	35153	CB	LEU	C	94	212.722	136.217	43.158	1.00118.64	CS3
ATOM	35154	CG	LEU	C	94	212.755	135.988	41.652	1.00118.64	CS3
ATOM	35155	CD1	LEU	C	94	211.423	135.397	41.213	1.00118.64	CS3
ATOM	35156	CD2	LEU	C	94	213.021	137.305	40.935	1.00118.64	CS3
ATOM	35157	C	LEU	C	94	215.079	137.115	43.513	1.00108.66	CS3
ATOM	35158	O	LEU	C	94	215.983	136.621	42.843	1.00108.66	CS3
ATOM	35159	N	THR	C	95	215.028	138.411	43.803	1.00150.25	CS3
ATOM	35160	CA	THR	C	95	216.055	139.344	43.350	1.00150.25	CS3
ATOM	35161	CB	THR	C	95	215.710	139.950	41.991	1.00118.10	CS3
ATOM	35162	OG1	THR	C	95	214.372	140.464	42.020	1.00118.10	CS3
ATOM	35163	CG2	THR	C	95	215.851	138.902	40.906	1.00118.10	CS3
ATOM	35164	C	THR	C	95	216.223	140.476	44.349	1.00150.25	CS3
ATOM	35165	O	THR	C	95	215.397	141.391	44.422	1.00150.25	CS3
ATOM	35166	N	GLY	C	96	217.303	140.406	45.119	1.00149.93	CS3
ATOM	35167	CA	GLY	C	96	217.566	141.424	46.114	1.00149.93	CS3
ATOM	35168	C	GLY	C	96	217.552	142.823	45.538	1.00149.93	CS3
ATOM	35169	O	GLY	C	96	217.514	143.803	46.277	1.00149.93	CS3
ATOM	35170	N	LYS	C	97	217.580	142.918	44.215	1.00156.14	CS3
ATOM	35171	CA	LYS	C	97	217.579	144.206	43.532	1.00156.14	CS3
ATOM	35172	CB	LYS	C	97	217.070	144.030	42.099	1.00114.19	CS3
ATOM	35173	CG	LYS	C	97	217.866	143.036	41.258	1.00114.19	CS3
ATOM	35174	CD	LYS	C	97	219.201	143.602	40.797	1.00114.19	CS3
ATOM	35175	CE	LYS	C	97	219.898	142.632	39.858	1.00114.19	CS3
ATOM	35176	NZ	LYS	C	97	221.186	143.171	39.364	1.00114.19	CS3
ATOM	35177	C	LYS	C	97	216.750	145.287	44.235	1.00156.14	CS3
ATOM	35178	O	LYS	C	97	217.062	146.472	44.116	1.00156.14	CS3
ATOM	35179	N	ASN	C	98	215.707	144.884	44.966	1.00125.43	CS3



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ATOM	35180	CA	ASN	C	98	214.835	145.835	45.666	1.00125.43	CS3
ATOM	35181	CB	ASN	C	98	215.669	146.809	46.511	1.00198.94	CS3
ATOM	35182	CG	ASN	C	98	214.818	147.846	47.225	1.00198.94	CS3
ATOM	35183	OD1	ASN	C	98	214.101	148.626	46.595	1.00198.94	CS3
ATOM	35184	ND2	ASN	C	98	214.900	147.862	48.551	1.00198.94	CS3
ATOM	35185	C	ASN	C	98	214.064	146.600	44.598	1.00125.43	CS3
ATOM	35186	O	ASN	C	98	214.463	147.691	44.187	1.00125.43	CS3
ATOM	35187	N	VAL	C	99	212.948	146.030	44.160	1.00113.44	CS3
ATOM	35188	CA	VAL	C	99	212.164	146.638	43.095	1.00113.44	CS3
ATOM	35189	CB	VAL	C	99	212.246	145.734	41.830	1.00157.26	CS3
ATOM	35190	CG1	VAL	C	99	212.297	144.272	42.249	1.00157.26	CS3
ATOM	35191	CG2	VAL	C	99	211.061	145.975	40.906	1.00157.26	CS3
ATOM	35192	C	VAL	C	99	210.705	146.967	43.409	1.00113.44	CS3
ATOM	35193	O	VAL	C	99	210.128	146.452	44.368	1.00113.44	CS3
ATOM	35194	N	ALA	C	100	210.133	147.841	42.579	1.00145.09	CS3
ATOM	35195	CA	ALA	C	100	208.746	148.286	42.686	1.00145.09	CS3
ATOM	35196	CB	ALA	C	100	208.577	149.598	41.929	1.00 69.20	CS3
ATOM	35197	C	ALA	C	100	207.775	147.235	42.135	1.00145.09	CS3
ATOM	35198	O	ALA	C	100	208.113	146.057	42.042	1.00145.09	CS3
ATOM	35199	N	LEU	C	101	206.569	147.669	41.773	1.00 87.39	CS3
ATOM	35200	CA	LEU	C	101	205.536	146.780	41.229	1.00 87.39	CS3
ATOM	35201	CB	LEU	C	101	205.290	145.584	42.172	1.00 96.92	CS3
ATOM	35202	CG	LEU	C	101	204.423	144.384	41.738	1.00 96.92	CS3
ATOM	35203	CD1	LEU	C	101	204.527	143.278	42.776	1.00 96.92	CS3
ATOM	35204	CD2	LEU	C	101	202.970	144.789	41.582	1.00 96.92	CS3
ATOM	35205	C	LEU	C	101	204.253	147.595	41.061	1.00 87.39	CS3
ATOM	35206	O	LEU	C	101	203.321	147.492	41.864	1.00 87.39	CS3
ATOM	35207	N	ASN	C	102	204.219	148.414	40.014	1.00101.77	CS3
ATOM	35208	CA	ASN	C	102	203.062	149.260	39.729	1.00101.77	CS3
ATOM	35209	CB	ASN	C	102	203.436	150.340	38.709	1.00131.26	CS3
ATOM	35210	CG	ASN	C	102	204.787	150.981	38.995	1.00131.26	CS3
ATOM	35211	OD1	ASN	C	102	205.152	151.970	38.362	1.00131.26	CS3
ATOM	35212	ND2	ASN	C	102	205.538	150.416	39.940	1.00131.26	CS3
ATOM	35213	C	ASN	C	102	201.911	148.418	39.176	1.00101.77	CS3
ATOM	35214	O	ASN	C	102	201.968	147.190	39.213	1.00101.77	CS3
ATOM	35215	N	VAL	C	103	200.871	149.082	38.677	1.00102.25	CS3
ATOM	35216	CA	VAL	C	103	199.709	148.403	38.098	1.00102.25	CS3
ATOM	35217	CB	VAL	C	103	198.772	147.778	39.192	1.00 68.77	CS3
ATOM	35218	CG1	VAL	C	103	197.412	147.425	38.588	1.00 68.77	CS3
ATOM	35219	CG2	VAL	C	103	199.390	146.499	39.765	1.00 68.77	CS3
ATOM	35220	C	VAL	C	103	198.881	149.375	37.262	1.00102.25	CS3
ATOM	35221	O	VAL	C	103	198.625	150.507	37.673	1.00102.25	CS3
ATOM	35222	N	GLN	C	104	198.477	148.930	36.079	1.00123.16	CS3
ATOM	35223	CA	GLN	C	104	197.651	149.742	35.205	1.00123.16	CS3
ATOM	35224	CB	GLN	C	104	198.473	150.325	34.066	1.00118.07	CS3
ATOM	35225	CG	GLN	C	104	199.341	151.469	34.502	1.00118.07	CS3
ATOM	35226	CD	GLN	C	104	199.910	152.233	33.330	1.00118.07	CS3
ATOM	35227	OE1	GLN	C	104	200.729	151.711	32.571	1.00118.07	CS3
ATOM	35228	NE2	GLN	C	104	199.473	153.479	33.168	1.00118.07	CS3
ATOM	35229	C	GLN	C	104	196.537	148.875	34.650	1.00123.16	CS3
ATOM	35230	O	GLN	C	104	196.779	147.997	33.821	1.00123.16	CS3
ATOM	35231	N	GLU	C	105	195.319	149.113	35.129	1.00154.67	CS3
ATOM	35232	CA	GLU	C	105	194.159	148.349	34.687	1.00154.67	CS3
ATOM	35233	CB	GLU	C	105	192.864	148.919	35.284	1.00198.94	CS3
ATOM	35234	CG	GLU	C	105	191.602	148.162	34.858	1.00198.94	CS3
ATOM	35235	CD	GLU	C	105	190.310	148.849	35.283	1.00198.94	CS3
ATOM	35236	OE1	GLU	C	105	190.068	149.994	34.843	1.00198.94	CS3
ATOM	35237	OE2	GLU	C	105	189.533	148.244	36.052	1.00198.94	CS3
ATOM	35238	C	GLU	C	105	194.067	148.378	33.172	1.00154.67	CS3
ATOM	35239	O	GLU	C	105	194.483	149.344	32.532	1.00154.67	CS3
ATOM	35240	N	VAL	C	106	193.523	147.307	32.609	1.00116.72	CS3
ATOM	35241	CA	VAL	C	106	193.356	147.195	31.173	1.00116.72	CS3
ATOM	35242	CB	VAL	C	106	193.278	145.723	30.751	1.00128.59	CS3
ATOM	35243	CG1	VAL	C	106	192.923	145.627	29.283	1.00128.59	CS3
ATOM	35244	CG2	VAL	C	106	194.605	145.038	31.020	1.00128.59	CS3
ATOM	35245	C	VAL	C	106	192.061	147.895	30.787	1.00116.72	CS3
ATOM	35246	O	VAL	C	106	190.983	147.502	31.230	1.00116.72	CS3
ATOM	35247	N	GLN	C	107	192.169	148.936	29.969	1.00130.02	CS3
ATOM	35248	CA	GLN	C	107	190.994	149.684	29.542	1.00130.02	CS3
ATOM	35249	CB	GLN	C	107	191.381	151.113	29.151	1.00171.35	CS3
ATOM	35250	CG	GLN	C	107	192.612	151.644	29.864	1.00171.35	CS3
ATOM	35251	CD	GLN	C	107	193.882	150.958	29.395	1.00171.35	CS3
ATOM	35252	OE1	GLN	C	107	194.192	150.950	28.204	1.00171.35	CS3
ATOM	35253	NE2	GLN	C	107	194.623	150.377	30.330	1.00171.35	CS3
ATOM	35254	C	GLN	C	107	190.340	148.986	28.355	1.00130.02	CS3
ATOM	35255	O	GLN	C	107	190.635	149.292	27.196	1.00130.02	CS3
ATOM	35256	N	ASN	C	108	189.458	148.040	28.667	1.00107.87	CS3



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ATOM	35257	CA	ASN	C	108	188.723	147.253	27.677	1.00107.87	CS3
ATOM	35258	CB	ASN	C	108	188.357	148.106	26.456	1.00116.13	CS3
ATOM	35259	CG	ASN	C	108	187.644	147.307	25.380	1.00116.13	CS3
ATOM	35260	OD1	ASN	C	108	186.720	146.538	25.662	1.00116.13	CS3
ATOM	35261	ND2	ASN	C	108	188.063	147.493	24.137	1.00116.13	CS3
ATOM	35262	C	ASN	C	108	189.477	146.013	27.224	1.00107.87	CS3
ATOM	35263	O	ASN	C	108	190.135	146.018	26.187	1.00107.87	CS3
ATOM	35264	N	PRO	C	109	189.383	144.924	27.999	1.00 89.32	CS3
ATOM	35265	CD	PRO	C	109	188.506	144.702	29.159	1.00 99.01	CS3
ATOM	35266	CA	PRO	C	109	190.075	143.689	27.632	1.00 89.32	CS3
ATOM	35267	CB	PRO	C	109	189.683	142.728	28.754	1.00 99.01	CS3
ATOM	35268	CG	PRO	C	109	188.320	143.200	29.129	1.00 99.01	CS3
ATOM	35269	C	PRO	C	109	189.625	143.196	26.259	1.00 89.32	CS3
ATOM	35270	O	PRO	C	109	190.170	142.233	25.717	1.00 89.32	CS3
ATOM	35271	N	ASN	C	110	188.624	143.866	25.699	1.00 89.40	CS3
ATOM	35272	CA	ASN	C	110	188.107	143.489	24.395	1.00 89.40	CS3
ATOM	35273	CB	ASN	C	110	186.640	143.906	24.270	1.00121.23	CS3
ATOM	35274	CG	ASN	C	110	185.692	142.721	24.334	1.00121.23	CS3
ATOM	35275	OD1	ASN	C	110	186.071	141.625	24.760	1.00121.23	CS3
ATOM	35276	ND2	ASN	C	110	184.447	142.937	23.918	1.00121.23	CS3
ATOM	35277	C	ASN	C	110	188.938	144.094	23.271	1.00 89.40	CS3
ATOM	35278	O	ASN	C	110	188.498	144.157	22.127	1.00 89.40	CS3
ATOM	35279	N	LEU	C	111	190.140	144.544	23.614	1.00 76.92	CS3
ATOM	35280	CA	LEU	C	111	191.065	145.111	22.638	1.00 76.92	CS3
ATOM	35281	CB	LEU	C	111	190.956	146.637	22.575	1.00 48.45	CS3
ATOM	35282	CG	LEU	C	111	189.764	147.215	21.811	1.00 48.45	CS3
ATOM	35283	CD1	LEU	C	111	190.051	148.669	21.425	1.00 48.45	CS3
ATOM	35284	CD2	LEU	C	111	189.510	146.383	20.556	1.00 48.45	CS3
ATOM	35285	C	LEU	C	111	192.490	144.729	22.989	1.00 76.92	CS3
ATOM	35286	O	LEU	C	111	193.441	145.406	22.589	1.00 76.92	CS3
ATOM	35287	N	SER	C	112	192.627	143.646	23.749	1.00 65.11	CS3
ATOM	35288	CA	SER	C	112	193.930	143.154	24.163	1.00 65.11	CS3
ATOM	35289	CB	SER	C	112	194.063	143.167	25.678	1.00155.68	CS3
ATOM	35290	OG	SER	C	112	193.863	144.466	26.191	1.00155.68	CS3
ATOM	35291	C	SER	C	112	194.077	141.739	23.674	1.00 65.11	CS3
ATOM	35292	O	SER	C	112	193.629	140.793	24.332	1.00 65.11	CS3
ATOM	35293	N	ALA	C	113	194.704	141.604	22.510	1.00 84.73	CS3
ATOM	35294	CA	ALA	C	113	194.923	140.305	21.905	1.00 84.73	CS3
ATOM	35295	CB	ALA	C	113	196.085	140.375	20.909	1.00 98.90	CS3
ATOM	35296	C	ALA	C	113	195.211	139.276	22.991	1.00 84.73	CS3
ATOM	35297	O	ALA	C	113	194.451	138.321	23.164	1.00 84.73	CS3
ATOM	35298	N	PRO	C	114	196.295	139.476	23.761	1.00 56.62	CS3
ATOM	35299	CD	PRO	C	114	197.191	140.650	23.768	1.00 80.83	CS3
ATOM	35300	CA	PRO	C	114	196.657	138.537	24.830	1.00 56.62	CS3
ATOM	35301	CB	PRO	C	114	197.646	139.340	25.665	1.00 80.83	CS3
ATOM	35302	CG	PRO	C	114	198.351	140.166	24.611	1.00 80.83	CS3
ATOM	35303	C	PRO	C	114	195.454	138.069	25.636	1.00 56.62	CS3
ATOM	35304	O	PRO	C	114	195.281	136.871	25.906	1.00 56.62	CS3
ATOM	35305	N	LEU	C	115	194.616	139.027	26.006	1.00 93.88	CS3
ATOM	35306	CA	LEU	C	115	193.426	138.732	26.778	1.00 93.88	CS3
ATOM	35307	CB	LEU	C	115	192.755	140.037	27.173	1.00 99.65	CS3
ATOM	35308	CG	LEU	C	115	193.738	140.919	27.938	1.00 99.65	CS3
ATOM	35309	CD1	LEU	C	115	193.016	142.136	28.472	1.00 99.65	CS3
ATOM	35310	CD2	LEU	C	115	194.351	140.124	29.083	1.00 99.65	CS3
ATOM	35311	C	LEU	C	115	192.470	137.852	25.988	1.00 93.88	CS3
ATOM	35312	O	LEU	C	115	192.189	136.714	26.386	1.00 93.88	CS3
ATOM	35313	N	VAL	C	116	191.983	138.375	24.866	1.00 53.34	CS3
ATOM	35314	CA	VAL	C	116	191.060	137.623	24.013	1.00 53.34	CS3
ATOM	35315	CB	VAL	C	116	190.916	138.279	22.622	1.00 47.68	CS3
ATOM	35316	CG1	VAL	C	116	189.610	137.812	21.979	1.00 47.68	CS3
ATOM	35317	CG2	VAL	C	116	190.983	139.811	22.740	1.00 47.68	CS3
ATOM	35318	C	VAL	C	116	191.538	136.179	23.809	1.00 53.34	CS3
ATOM	35319	O	VAL	C	116	190.736	135.256	23.667	1.00 53.34	CS3
ATOM	35320	N	ALA	C	117	192.854	136.000	23.786	1.00 74.31	CS3
ATOM	35321	CA	ALA	C	117	193.439	134.687	23.606	1.00 74.31	CS3
ATOM	35322	CB	ALA	C	117	194.947	134.791	23.537	1.00 61.40	CS3
ATOM	35323	C	ALA	C	117	193.034	133.831	24.783	1.00 74.31	CS3
ATOM	35324	O	ALA	C	117	192.437	132.764	24.607	1.00 74.31	CS3
ATOM	35325	N	GLN	C	118	193.361	134.314	25.983	1.00 82.46	CS3
ATOM	35326	CA	GLN	C	118	193.049	133.616	27.230	1.00 82.46	CS3
ATOM	35327	CB	GLN	C	118	193.505	134.451	28.422	1.00108.03	CS3
ATOM	35328	CG	GLN	C	118	195.002	134.580	28.547	1.00108.03	CS3
ATOM	35329	CD	GLN	C	118	195.399	135.657	29.527	1.00108.03	CS3
ATOM	35330	OE1	GLN	C	118	195.278	136.847	29.237	1.00108.03	CS3
ATOM	35331	NE2	GLN	C	118	195.864	135.248	30.703	1.00108.03	CS3
ATOM	35332	C	GLN	C	118	191.561	133.308	27.373	1.00 82.46	CS3
ATOM	35333	O	GLN	C	118	191.188	132.229	27.844	1.00 82.46	CS3



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ATOM	35334	N	ARG	C	119	190.719	134.263	26.981	1.00107.37	CS3
ATOM	35335	CA	ARG	C	119	189.270	134.091	27.051	1.00107.37	CS3
ATOM	35336	CB	ARG	C	119	188.563	135.329	26.487	1.00159.08	CS3
ATOM	35337	CG	ARG	C	119	187.068	135.146	26.246	1.00159.08	CS3
ATOM	35338	CD	ARG	C	119	186.257	135.052	27.541	1.00159.08	CS3
ATOM	35339	NE	ARG	C	119	184.974	134.376	27.328	1.00159.08	CS3
ATOM	35340	CZ	ARG	C	119	183.990	134.311	28.222	1.00159.08	CS3
ATOM	35341	NH1	ARG	C	119	184.123	134.889	29.408	1.00159.08	CS3
ATOM	35342	NH2	ARG	C	119	182.877	133.649	27.935	1.00159.08	CS3
ATOM	35343	C	ARG	C	119	188.877	132.858	26.240	1.00107.37	CS3
ATOM	35344	O	ARG	C	119	188.317	131.892	26.774	1.00107.37	CS3
ATOM	35345	N	VAL	C	120	189.188	132.904	24.946	1.00 71.66	CS3
ATOM	35346	CA	VAL	C	120	188.888	131.812	24.033	1.00 71.66	CS3
ATOM	35347	CB	VAL	C	120	189.343	132.144	22.617	1.00 68.96	CS3
ATOM	35348	CG1	VAL	C	120	189.133	130.945	21.723	1.00 68.96	CS3
ATOM	35349	CG2	VAL	C	120	188.561	133.336	22.093	1.00 68.96	CS3
ATOM	35350	C	VAL	C	120	189.583	130.543	24.475	1.00 71.66	CS3
ATOM	35351	O	VAL	C	120	189.024	129.455	24.381	1.00 71.66	CS3
ATOM	35352	N	ALA	C	121	190.811	130.691	24.951	1.00 67.66	CS3
ATOM	35353	CA	ALA	C	121	191.586	129.556	25.424	1.00 67.66	CS3
ATOM	35354	CB	ALA	C	121	192.935	130.029	25.936	1.00 55.89	CS3
ATOM	35355	C	ALA	C	121	190.824	128.849	26.538	1.00 67.66	CS3
ATOM	35356	O	ALA	C	121	190.723	127.619	26.552	1.00 67.66	CS3
ATOM	35357	N	GLU	C	122	190.293	129.636	27.474	1.00 91.41	CS3
ATOM	35358	CA	GLU	C	122	189.534	129.092	28.593	1.00 91.41	CS3
ATOM	35359	CB	GLU	C	122	189.152	130.193	29.579	1.00181.17	CS3
ATOM	35360	CG	GLU	C	122	190.295	130.690	30.432	1.00181.17	CS3
ATOM	35361	CD	GLU	C	122	189.820	131.619	31.526	1.00181.17	CS3
ATOM	35362	OE1	GLU	C	122	189.004	131.180	32.365	1.00181.17	CS3
ATOM	35363	OE2	GLU	C	122	190.259	132.786	31.544	1.00181.17	CS3
ATOM	35364	C	GLU	C	122	188.273	128.407	28.104	1.00 91.41	CS3
ATOM	35365	O	GLU	C	122	188.068	127.218	28.358	1.00 91.41	CS3
ATOM	35366	N	GLN	C	123	187.425	129.160	27.408	1.00 81.97	CS3
ATOM	35367	CA	GLN	C	123	186.186	128.599	26.887	1.00 81.97	CS3
ATOM	35368	CB	GLN	C	123	185.582	129.503	25.811	1.00 82.07	CS3
ATOM	35369	CG	GLN	C	123	185.116	130.864	26.283	1.00 82.07	CS3
ATOM	35370	CD	GLN	C	123	184.261	131.563	25.234	1.00 82.07	CS3
ATOM	35371	OE1	GLN	C	123	183.123	131.162	24.976	1.00 82.07	CS3
ATOM	35372	NE2	GLN	C	123	184.812	132.602	24.611	1.00 82.07	CS3
ATOM	35373	C	GLN	C	123	186.485	127.233	26.282	1.00 81.97	CS3
ATOM	35374	O	GLN	C	123	185.737	126.270	26.485	1.00 81.97	CS3
ATOM	35375	N	ILE	C	124	187.594	127.163	25.545	1.00 62.70	CS3
ATOM	35376	CA	ILE	C	124	188.018	125.931	24.893	1.00 62.70	CS3
ATOM	35377	CB	ILE	C	124	189.367	126.114	24.146	1.00 99.39	CS3
ATOM	35378	CG2	ILE	C	124	189.933	124.760	23.747	1.00 99.39	CS3
ATOM	35379	CG1	ILE	C	124	189.170	126.979	22.900	1.00 99.39	CS3
ATOM	35380	CD1	ILE	C	124	190.452	127.240	22.125	1.00 99.39	CS3
ATOM	35381	C	ILE	C	124	188.186	124.822	25.916	1.00 62.70	CS3
ATOM	35382	O	ILE	C	124	187.746	123.684	25.707	1.00 62.70	CS3
ATOM	35383	N	GLU	C	125	188.833	125.162	27.023	1.00105.57	CS3
ATOM	35384	CA	GLU	C	125	189.076	124.201	28.081	1.00105.57	CS3
ATOM	35385	CB	GLU	C	125	190.017	124.810	29.112	1.00104.11	CS3
ATOM	35386	CG	GLU	C	125	191.303	125.295	28.487	1.00104.11	CS3
ATOM	35387	CD	GLU	C	125	192.296	125.793	29.505	1.00104.11	CS3
ATOM	35388	OE1	GLU	C	125	192.022	126.837	30.141	1.00104.11	CS3
ATOM	35389	OE2	GLU	C	125	193.349	125.136	29.667	1.00104.11	CS3
ATOM	35390	C	GLU	C	125	187.767	123.787	28.725	1.00105.57	CS3
ATOM	35391	O	GLU	C	125	187.545	122.606	28.994	1.00105.57	CS3
ATOM	35392	N	ARG	C	126	186.893	124.763	28.949	1.00 98.02	CS3
ATOM	35393	CA	ARG	C	126	185.600	124.499	29.563	1.00 98.02	CS3
ATOM	35394	CB	ARG	C	126	184.898	125.812	29.887	1.00138.93	CS3
ATOM	35395	CG	ARG	C	126	185.615	126.652	30.922	1.00138.93	CS3
ATOM	35396	CD	ARG	C	126	184.760	127.832	31.302	1.00138.93	CS3
ATOM	35397	NE	ARG	C	126	185.404	128.681	32.292	1.00138.93	CS3
ATOM	35398	CZ	ARG	C	126	184.820	129.738	32.840	1.00138.93	CS3
ATOM	35399	NH1	ARG	C	126	183.581	130.063	32.487	1.00138.93	CS3
ATOM	35400	NH2	ARG	C	126	185.470	130.470	33.739	1.00138.93	CS3
ATOM	35401	C	ARG	C	126	184.705	123.640	28.679	1.00 98.02	CS3
ATOM	35402	O	ARG	C	126	183.627	123.219	29.096	1.00 98.02	CS3
ATOM	35403	N	ARG	C	127	185.168	123.387	27.459	1.00 79.40	CS3
ATOM	35404	CA	ARG	C	127	184.454	122.569	26.482	1.00 79.40	CS3
ATOM	35405	CB	ARG	C	127	183.836	121.349	27.150	1.00108.68	CS3
ATOM	35406	CG	ARG	C	127	184.790	120.634	28.044	1.00108.68	CS3
ATOM	35407	CD	ARG	C	127	184.141	119.430	28.631	1.00108.68	CS3
ATOM	35408	NE	ARG	C	127	184.972	118.873	29.684	1.00108.68	CS3
ATOM	35409	CZ	ARG	C	127	184.797	117.662	30.194	1.00108.68	CS3
ATOM	35410	NH1	ARG	C	127	183.817	116.893	29.732	1.00108.68	CS3



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ATOM	35411	NH2	ARG	C	127	185.598	117.221	31.161	1.00108.68	CS3
ATOM	35412	C	ARG	C	127	183.376	123.316	25.727	1.00 79.40	CS3
ATOM	35413	O	ARG	C	127	182.296	122.779	25.493	1.00 79.40	CS3
ATOM	35414	N	PHE	C	128	183.673	124.549	25.337	1.00103.53	CS3
ATOM	35415	CA	PHE	C	128	182.717	125.341	24.582	1.00103.53	CS3
ATOM	35416	CB	PHE	C	128	182.914	126.828	24.866	1.00138.73	CS3
ATOM	35417	CG	PHE	C	128	182.223	127.298	26.102	1.00138.73	CS3
ATOM	35418	CD1	PHE	C	128	182.550	126.763	27.344	1.00138.73	CS3
ATOM	35419	CD2	PHE	C	128	181.236	128.274	26.027	1.00138.73	CS3
ATOM	35420	CE1	PHE	C	128	181.901	127.195	28.498	1.00138.73	CS3
ATOM	35421	CE2	PHE	C	128	180.581	128.713	27.174	1.00138.73	CS3
ATOM	35422	CZ	PHE	C	128	180.914	128.173	28.414	1.00138.73	CS3
ATOM	35423	C	PHE	C	128	182.807	125.102	23.076	1.00103.53	CS3
ATOM	35424	O	PHE	C	128	183.798	124.567	22.566	1.00103.53	CS3
ATOM	35425	N	ALA	C	129	181.751	125.499	22.372	1.00 79.05	CS3
ATOM	35426	CA	ALA	C	129	181.696	125.360	20.926	1.00 79.05	CS3
ATOM	35427	CB	ALA	C	129	180.337	125.800	20.411	1.00185.47	CS3
ATOM	35428	C	ALA	C	129	182.789	126.236	20.340	1.00 79.05	CS3
ATOM	35429	O	ALA	C	129	182.607	127.449	20.148	1.00 79.05	CS3
ATOM	35430	N	VAL	C	130	183.926	125.606	20.069	1.00 52.87	CS3
ATOM	35431	CA	VAL	C	130	185.083	126.298	19.521	1.00 52.87	CS3
ATOM	35432	CB	VAL	C	130	186.013	125.321	18.808	1.00 63.68	CS3
ATOM	35433	CG1	VAL	C	130	187.390	125.955	18.657	1.00 63.68	CS3
ATOM	35434	CG2	VAL	C	130	186.065	123.996	19.576	1.00 63.68	CS3
ATOM	35435	C	VAL	C	130	184.689	127.385	18.536	1.00 52.87	CS3
ATOM	35436	O	VAL	C	130	184.852	128.573	18.812	1.00 52.87	CS3
ATOM	35437	N	ARG	C	131	184.158	126.966	17.393	1.00 77.74	CS3
ATOM	35438	CA	ARG	C	131	183.742	127.901	16.364	1.00 77.74	CS3
ATOM	35439	CB	ARG	C	131	182.872	127.188	15.329	1.00182.52	CS3
ATOM	35440	CG	ARG	C	131	182.573	128.039	14.115	1.00182.52	CS3
ATOM	35441	CD	ARG	C	131	181.919	127.243	13.000	1.00182.52	CS3
ATOM	35442	NE	ARG	C	131	182.818	126.244	12.425	1.00182.52	CS3
ATOM	35443	CZ	ARG	C	131	182.545	125.528	11.335	1.00182.52	CS3
ATOM	35444	NH1	ARG	C	131	181.392	125.697	10.691	1.00182.52	CS3
ATOM	35445	NH2	ARG	C	131	183.427	124.638	10.888	1.00182.52	CS3
ATOM	35446	C	ARG	C	131	182.997	129.104	16.955	1.00 77.74	CS3
ATOM	35447	O	ARG	C	131	183.415	130.250	16.761	1.00 77.74	CS3
ATOM	35448	N	ARG	C	132	181.909	128.850	17.683	1.00103.79	CS3
ATOM	35449	CA	ARG	C	132	181.131	129.932	18.293	1.00103.79	CS3
ATOM	35450	CB	ARG	C	132	180.107	129.383	19.294	1.00173.98	CS3
ATOM	35451	CG	ARG	C	132	178.990	128.567	18.672	1.00173.98	CS3
ATOM	35452	CD	ARG	C	132	178.037	128.031	19.730	1.00173.98	CS3
ATOM	35453	NE	ARG	C	132	177.345	126.832	19.260	1.00173.98	CS3
ATOM	35454	CZ	ARG	C	132	176.624	126.026	20.035	1.00173.98	CS3
ATOM	35455	NH1	ARG	C	132	176.493	126.291	21.329	1.00173.98	CS3
ATOM	35456	NH2	ARG	C	132	176.048	124.946	19.520	1.00173.98	CS3
ATOM	35457	C	ARG	C	132	182.063	130.884	19.018	1.00103.79	CS3
ATOM	35458	O	ARG	C	132	182.251	132.033	18.605	1.00103.79	CS3
ATOM	35459	N	ALA	C	133	182.650	130.386	20.101	1.00 95.27	CS3
ATOM	35460	CA	ALA	C	133	183.570	131.173	20.908	1.00 95.27	CS3
ATOM	35461	CB	ALA	C	133	184.463	130.252	21.706	1.00 56.99	CS3
ATOM	35462	C	ALA	C	133	184.421	132.106	20.055	1.00 95.27	CS3
ATOM	35463	O	ALA	C	133	184.548	133.291	20.353	1.00 95.27	CS3
ATOM	35464	N	ILE	C	134	184.996	131.563	18.990	1.00 67.00	CS3
ATOM	35465	CA	ILE	C	134	185.848	132.336	18.100	1.00 67.00	CS3
ATOM	35466	CB	ILE	C	134	186.438	131.446	17.004	1.00 76.04	CS3
ATOM	35467	CG2	ILE	C	134	187.566	132.158	16.321	1.00 76.04	CS3
ATOM	35468	CG1	ILE	C	134	187.008	130.173	17.622	1.00 76.04	CS3
ATOM	35469	CD1	ILE	C	134	187.536	129.194	16.607	1.00 76.04	CS3
ATOM	35470	C	ILE	C	134	185.070	133.470	17.451	1.00 67.00	CS3
ATOM	35471	O	ILE	C	134	185.501	134.630	17.485	1.00 67.00	CS3
ATOM	35472	N	LYS	C	135	183.926	133.136	16.857	1.00 76.13	CS3
ATOM	35473	CA	LYS	C	135	183.092	134.142	16.209	1.00 76.13	CS3
ATOM	35474	CB	LYS	C	135	181.776	133.531	15.741	1.00132.50	CS3
ATOM	35475	CG	LYS	C	135	181.930	132.422	14.727	1.00132.50	CS3
ATOM	35476	CD	LYS	C	135	180.595	131.742	14.464	1.00132.50	CS3
ATOM	35477	CE	LYS	C	135	180.718	130.627	13.435	1.00132.50	CS3
ATOM	35478	NZ	LYS	C	135	179.419	129.939	13.187	1.00132.50	CS3
ATOM	35479	C	LYS	C	135	182.808	135.198	17.256	1.00 76.13	CS3
ATOM	35480	O	LYS	C	135	182.997	136.399	17.021	1.00 76.13	CS3
ATOM	35481	N	GLN	C	136	182.363	134.722	18.419	1.00 78.30	CS3
ATOM	35482	CA	GLN	C	136	182.040	135.584	19.547	1.00 78.30	CS3
ATOM	35483	CB	GLN	C	136	181.685	134.735	20.773	1.00121.67	CS3
ATOM	35484	CG	GLN	C	136	180.224	134.287	20.806	1.00121.67	CS3
ATOM	35485	CD	GLN	C	136	179.922	133.273	21.909	1.00121.67	CS3
ATOM	35486	OE1	GLN	C	136	180.415	133.393	23.032	1.00121.67	CS3
ATOM	35487	NE2	GLN	C	136	179.092	132.277	21.592	1.00121.67	CS3



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ATOM	35488	C	GLN	C	136	183.202	136.514	19.858	1.00	78.30	CS3
ATOM	35489	O	GLN	C	136	183.065	137.730	19.782	1.00	78.30	CS3
ATOM	35490	N	ALA	C	137	184.349	135.935	20.192	1.00	70.58	CS3
ATOM	35491	CA	ALA	C	137	185.544	136.711	20.508	1.00	70.58	CS3
ATOM	35492	CB	ALA	C	137	186.741	135.777	20.674	1.00	49.45	CS3
ATOM	35493	C	ALA	C	137	185.826	137.747	19.421	1.00	70.58	CS3
ATOM	35494	O	ALA	C	137	186.145	138.904	19.723	1.00	70.58	CS3
ATOM	35495	N	VAL	C	138	185.719	137.338	18.158	1.00	68.41	CS3
ATOM	35496	CA	VAL	C	138	185.946	138.277	17.065	1.00	68.41	CS3
ATOM	35497	CB	VAL	C	138	185.834	137.591	15.688	1.00	93.84	CS3
ATOM	35498	CG1	VAL	C	138	185.942	138.623	14.571	1.00	93.84	CS3
ATOM	35499	CG2	VAL	C	138	186.941	136.576	15.542	1.00	93.84	CS3
ATOM	35500	C	VAL	C	138	184.909	139.391	17.168	1.00	68.41	CS3
ATOM	35501	O	VAL	C	138	185.241	140.574	17.056	1.00	68.41	CS3
ATOM	35502	N	GLN	C	139	183.654	139.009	17.396	1.00	71.62	CS3
ATOM	35503	CA	GLN	C	139	182.590	139.994	17.536	1.00	71.62	CS3
ATOM	35504	CB	GLN	C	139	181.251	139.325	17.844	1.00	108.16	CS3
ATOM	35505	CG	GLN	C	139	180.296	139.400	16.666	1.00	108.16	CS3
ATOM	35506	CD	GLN	C	139	180.097	140.831	16.171	1.00	108.16	CS3
ATOM	35507	OE1	GLN	C	139	179.734	141.061	15.013	1.00	108.16	CS3
ATOM	35508	NE2	GLN	C	139	180.327	141.798	17.052	1.00	108.16	CS3
ATOM	35509	C	GLN	C	139	182.942	140.979	18.635	1.00	71.62	CS3
ATOM	35510	O	GLN	C	139	183.071	142.169	18.375	1.00	71.62	CS3
ATOM	35511	N	ARG	C	140	183.109	140.484	19.857	1.00	69.05	CS3
ATOM	35512	CA	ARG	C	140	183.473	141.341	20.981	1.00	69.05	CS3
ATOM	35513	CB	ARG	C	140	183.996	140.504	22.152	1.00	100.20	CS3
ATOM	35514	CG	ARG	C	140	183.063	139.411	22.634	1.00	100.20	CS3
ATOM	35515	CD	ARG	C	140	183.816	138.444	23.534	1.00	100.20	CS3
ATOM	35516	NE	ARG	C	140	183.122	137.166	23.684	1.00	100.20	CS3
ATOM	35517	CZ	ARG	C	140	183.719	136.026	24.034	1.00	100.20	CS3
ATOM	35518	NH1	ARG	C	140	185.025	136.007	24.270	1.00	100.20	CS3
ATOM	35519	NH2	ARG	C	140	183.017	134.902	24.137	1.00	100.20	CS3
ATOM	35520	C	ARG	C	140	184.571	142.311	20.544	1.00	69.05	CS3
ATOM	35521	O	ARG	C	140	184.376	143.531	20.534	1.00	69.05	CS3
ATOM	35522	N	VAL	C	141	185.719	141.755	20.166	1.00	69.27	CS3
ATOM	35523	CA	VAL	C	141	186.863	142.558	19.749	1.00	69.27	CS3
ATOM	35524	CB	VAL	C	141	188.015	141.671	19.243	1.00	66.40	CS3
ATOM	35525	CG1	VAL	C	141	189.172	142.550	18.773	1.00	66.40	CS3
ATOM	35526	CG2	VAL	C	141	188.479	140.732	20.353	1.00	66.40	CS3
ATOM	35527	C	VAL	C	141	186.518	143.554	18.656	1.00	69.27	CS3
ATOM	35528	O	VAL	C	141	187.009	144.687	18.641	1.00	69.27	CS3
ATOM	35529	N	MET	C	142	185.669	143.123	17.738	1.00	103.72	CS3
ATOM	35530	CA	MET	C	142	185.275	143.978	16.636	1.00	103.72	CS3
ATOM	35531	CB	MET	C	142	184.777	143.110	15.472	1.00	83.48	CS3
ATOM	35532	CG	MET	C	142	185.081	143.690	14.107	1.00	83.48	CS3
ATOM	35533	SD	MET	C	142	186.811	144.217	13.986	1.00	83.48	CS3
ATOM	35534	CE	MET	C	142	186.618	146.003	13.929	1.00	83.48	CS3
ATOM	35535	C	MET	C	142	184.186	144.944	17.089	1.00	103.72	CS3
ATOM	35536	O	MET	C	142	184.066	146.052	16.569	1.00	103.72	CS3
ATOM	35537	N	GLU	C	143	183.418	144.519	18.087	1.00	100.77	CS3
ATOM	35538	CA	GLU	C	143	182.306	145.304	18.610	1.00	100.77	CS3
ATOM	35539	CB	GLU	C	143	181.367	144.396	19.405	1.00	153.20	CS3
ATOM	35540	CG	GLU	C	143	179.960	144.935	19.568	1.00	153.20	CS3
ATOM	35541	CD	GLU	C	143	178.974	143.848	19.952	1.00	153.20	CS3
ATOM	35542	OE1	GLU	C	143	179.089	143.303	21.069	1.00	153.20	CS3
ATOM	35543	OE2	GLU	C	143	178.088	143.531	19.128	1.00	153.20	CS3
ATOM	35544	C	GLU	C	143	182.724	146.483	19.468	1.00	100.77	CS3
ATOM	35545	O	GLU	C	143	181.987	147.455	19.585	1.00	100.77	CS3
ATOM	35546	N	SER	C	144	183.903	146.403	20.069	1.00	96.37	CS3
ATOM	35547	CA	SER	C	144	184.381	147.492	20.908	1.00	96.37	CS3
ATOM	35548	CB	SER	C	144	184.671	146.975	22.319	1.00	76.41	CS3
ATOM	35549	OG	SER	C	144	185.235	145.682	22.272	1.00	76.41	CS3
ATOM	35550	C	SER	C	144	185.621	148.150	20.314	1.00	96.37	CS3
ATOM	35551	O	SER	C	144	186.740	147.921	20.768	1.00	96.37	CS3
ATOM	35552	N	GLY	C	145	185.408	148.984	19.304	1.00	123.04	CS3
ATOM	35553	CA	GLY	C	145	186.520	149.649	18.656	1.00	123.04	CS3
ATOM	35554	C	GLY	C	145	187.086	148.713	17.611	1.00	123.04	CS3
ATOM	35555	O	GLY	C	145	186.343	147.961	16.982	1.00	123.04	CS3
ATOM	35556	N	ALA	C	146	188.403	148.747	17.437	1.00	112.00	CS3
ATOM	35557	CA	ALA	C	146	189.094	147.900	16.465	1.00	112.00	CS3
ATOM	35558	CB	ALA	C	146	188.901	146.415	16.810	1.00	20.82	CS3
ATOM	35559	C	ALA	C	146	188.645	148.160	15.036	1.00	112.00	CS3
ATOM	35560	O	ALA	C	146	187.492	148.505	14.777	1.00	112.00	CS3
ATOM	35561	N	LYS	C	147	189.580	148.004	14.110	1.00	71.22	CS3
ATOM	35562	CA	LYS	C	147	189.289	148.195	12.704	1.00	71.22	CS3
ATOM	35563	CB	LYS	C	147	190.144	149.314	12.113	1.00	122.67	CS3
ATOM	35564	CG	LYS	C	147	190.109	150.606	12.909	1.00	122.67	CS3



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ATOM	35565	CD	LYS	C	147	190.455	151.810	12.044	1.00122.67	CS3
ATOM	35566	CE	LYS	C	147	191.758	151.606	11.282	1.00122.67	CS3
ATOM	35567	NZ	LYS	C	147	192.145	152.796	10.463	1.00122.67	CS3
ATOM	35568	C	LYS	C	147	189.647	146.875	12.060	1.00 71.22	CS3
ATOM	35569	O	LYS	C	147	189.602	146.736	10.838	1.00 71.22	CS3
ATOM	35570	N	GLY	C	148	190.005	145.909	12.906	1.00 57.98	CS3
ATOM	35571	CA	GLY	C	148	190.374	144.590	12.428	1.00 57.98	CS3
ATOM	35572	C	GLY	C	148	190.590	143.586	13.544	1.00 57.98	CS3
ATOM	35573	O	GLY	C	148	191.259	143.873	14.538	1.00 57.98	CS3
ATOM	35574	N	ALA	C	149	190.028	142.395	13.386	1.00 48.84	CS3
ATOM	35575	CA	ALA	C	149	190.177	141.366	14.403	1.00 48.84	CS3
ATOM	35576	CB	ALA	C	149	189.038	141.466	15.399	1.00 34.91	CS3
ATOM	35577	C	ALA	C	149	190.209	139.981	13.762	1.00 48.84	CS3
ATOM	35578	O	ALA	C	149	189.692	139.789	12.660	1.00 48.84	CS3
ATOM	35579	N	LYS	C	150	190.813	139.021	14.456	1.00 51.86	CS3
ATOM	35580	CA	LYS	C	150	190.930	137.661	13.945	1.00 51.86	CS3
ATOM	35581	CB	LYS	C	150	191.925	137.651	12.784	1.00 88.38	CS3
ATOM	35582	CG	LYS	C	150	192.298	136.274	12.267	1.00 88.38	CS3
ATOM	35583	CD	LYS	C	150	193.350	136.398	11.174	1.00 88.38	CS3
ATOM	35584	CE	LYS	C	150	193.796	135.043	10.641	1.00 88.38	CS3
ATOM	35585	NZ	LYS	C	150	194.751	135.177	9.497	1.00 88.38	CS3
ATOM	35586	C	LYS	C	150	191.394	136.679	15.024	1.00 51.86	CS3
ATOM	35587	O	LYS	C	150	192.394	136.915	15.716	1.00 51.86	CS3
ATOM	35588	N	VAL	C	151	190.677	135.571	15.168	1.00 64.59	CS3
ATOM	35589	CA	VAL	C	151	191.060	134.584	16.165	1.00 64.59	CS3
ATOM	35590	CB	VAL	C	151	189.938	134.316	17.150	1.00 57.66	CS3
ATOM	35591	CG1	VAL	C	151	190.482	133.565	18.361	1.00 57.66	CS3
ATOM	35592	CG2	VAL	C	151	189.287	135.619	17.547	1.00 57.66	CS3
ATOM	35593	C	VAL	C	151	191.380	133.282	15.474	1.00 64.59	CS3
ATOM	35594	O	VAL	C	151	190.827	132.998	14.421	1.00 64.59	CS3
ATOM	35595	N	ILE	C	152	192.250	132.479	16.077	1.00 79.40	CS3
ATOM	35596	CA	ILE	C	152	192.642	131.212	15.476	1.00 79.40	CS3
ATOM	35597	CB	ILE	C	152	193.958	131.372	14.707	1.00 49.78	CS3
ATOM	35598	CG2	ILE	C	152	194.285	130.089	13.983	1.00 49.78	CS3
ATOM	35599	CG1	ILE	C	152	193.862	132.553	13.741	1.00 49.78	CS3
ATOM	35600	CD1	ILE	C	152	195.153	132.847	12.999	1.00 49.78	CS3
ATOM	35601	C	ILE	C	152	192.844	130.081	16.483	1.00 79.40	CS3
ATOM	35602	O	ILE	C	152	193.570	130.233	17.472	1.00 79.40	CS3
ATOM	35603	N	VAL	C	153	192.219	128.940	16.216	1.00 68.20	CS3
ATOM	35604	CA	VAL	C	153	192.360	127.782	17.091	1.00 68.20	CS3
ATOM	35605	CB	VAL	C	153	190.983	127.221	17.503	1.00 79.62	CS3
ATOM	35606	CG1	VAL	C	153	191.160	125.947	18.313	1.00 79.62	CS3
ATOM	35607	CG2	VAL	C	153	190.229	128.260	18.326	1.00 79.62	CS3
ATOM	35608	C	VAL	C	153	193.177	126.702	16.377	1.00 68.20	CS3
ATOM	35609	O	VAL	C	153	193.147	126.596	15.152	1.00 68.20	CS3
ATOM	35610	N	SER	C	154	193.908	125.910	17.153	1.00 98.87	CS3
ATOM	35611	CA	SER	C	154	194.763	124.856	16.621	1.00 98.87	CS3
ATOM	35612	CB	SER	C	154	195.758	124.432	17.683	1.00 81.91	CS3
ATOM	35613	OG	SER	C	154	195.104	123.662	18.678	1.00 81.91	CS3
ATOM	35614	C	SER	C	154	194.015	123.615	16.151	1.00 98.87	CS3
ATOM	35615	O	SER	C	154	193.030	123.708	15.415	1.00 98.87	CS3
ATOM	35616	N	GLY	C	155	194.492	122.450	16.593	1.00 83.81	CS3
ATOM	35617	CA	GLY	C	155	193.887	121.189	16.195	1.00 83.81	CS3
ATOM	35618	C	GLY	C	155	193.017	120.540	17.245	1.00 83.81	CS3
ATOM	35619	O	GLY	C	155	192.566	121.204	18.171	1.00 83.81	CS3
ATOM	35620	N	ARG	C	156	192.790	119.237	17.100	1.00 69.51	CS3
ATOM	35621	CA	ARG	C	156	191.953	118.467	18.022	1.00 69.51	CS3
ATOM	35622	CB	ARG	C	156	192.764	118.001	19.221	1.00 60.02	CS3
ATOM	35623	CG	ARG	C	156	193.945	117.179	18.827	1.00 60.02	CS3
ATOM	35624	CD	ARG	C	156	194.032	115.922	19.643	1.00 60.02	CS3
ATOM	35625	NE	ARG	C	156	192.814	115.125	19.541	1.00 60.02	CS3
ATOM	35626	CZ	ARG	C	156	192.658	113.928	20.108	1.00 60.02	CS3
ATOM	35627	NH1	ARG	C	156	193.644	113.384	20.818	1.00 60.02	CS3
ATOM	35628	NH2	ARG	C	156	191.510	113.275	19.981	1.00 60.02	CS3
ATOM	35629	C	ARG	C	156	190.743	119.250	18.506	1.00 69.51	CS3
ATOM	35630	O	ARG	C	156	190.337	119.129	19.659	1.00 69.51	CS3
ATOM	35631	N	ILE	C	157	190.181	120.064	17.620	1.00 51.63	CS3
ATOM	35632	CA	ILE	C	157	189.008	120.852	17.941	1.00 51.63	CS3
ATOM	35633	CB	ILE	C	157	188.539	121.632	16.723	1.00 52.53	CS3
ATOM	35634	CG2	ILE	C	157	187.055	121.857	16.789	1.00 52.53	CS3
ATOM	35635	CG1	ILE	C	157	189.310	122.945	16.637	1.00 52.53	CS3
ATOM	35636	CD1	ILE	C	157	188.889	123.830	15.476	1.00 52.53	CS3
ATOM	35637	C	ILE	C	157	187.894	119.922	18.383	1.00 51.63	CS3
ATOM	35638	O	ILE	C	157	187.453	119.072	17.613	1.00 51.63	CS3
ATOM	35639	N	GLY	C	158	187.450	120.086	19.625	1.00 78.85	CS3
ATOM	35640	CA	GLY	C	158	186.383	119.254	20.154	1.00 78.85	CS3
ATOM	35641	C	GLY	C	158	186.794	117.815	20.422	1.00 78.85	CS3



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ATOM	35642	O	GLY	C	158	185.961	116.907	20.421	1.00	78.85	CS3
ATOM	35643	N	GLY	C	159	188.080	117.597	20.664	1.00	86.92	CS3
ATOM	35644	CA	GLY	C	159	188.542	116.248	20.923	1.00	86.92	CS3
ATOM	35645	C	GLY	C	159	188.557	115.447	19.640	1.00	86.92	CS3
ATOM	35646	O	GLY	C	159	188.882	114.259	19.652	1.00	86.92	CS3
ATOM	35647	N	ALA	C	160	188.197	116.095	18.532	1.00	112.85	CS3
ATOM	35648	CA	ALA	C	160	188.181	115.440	17.227	1.00	112.85	CS3
ATOM	35649	CB	ALA	C	160	187.848	116.450	16.130	1.00	100.33	CS3
ATOM	35650	C	ALA	C	160	189.563	114.839	16.999	1.00	112.85	CS3
ATOM	35651	O	ALA	C	160	190.575	115.537	17.089	1.00	112.85	CS3
ATOM	35652	N	GLU	C	161	189.599	113.544	16.706	1.00	72.80	CS3
ATOM	35653	CA	GLU	C	161	190.862	112.847	16.508	1.00	72.80	CS3
ATOM	35654	CB	GLU	C	161	190.592	111.368	16.249	1.00	152.47	CS3
ATOM	35655	CG	GLU	C	161	191.810	110.492	16.431	1.00	152.47	CS3
ATOM	35656	CD	GLU	C	161	191.458	109.022	16.449	1.00	152.47	CS3
ATOM	35657	OE1	GLU	C	161	192.379	108.185	16.579	1.00	152.47	CS3
ATOM	35658	OE2	GLU	C	161	190.255	108.704	16.334	1.00	152.47	CS3
ATOM	35659	C	GLU	C	161	191.780	113.413	15.415	1.00	72.80	CS3
ATOM	35660	O	GLU	C	161	192.999	113.212	15.467	1.00	72.80	CS3
ATOM	35661	N	GLN	C	162	191.208	114.118	14.435	1.00	57.93	CS3
ATOM	35662	CA	GLN	C	162	191.999	114.706	13.343	1.00	57.93	CS3
ATOM	35663	CB	GLN	C	162	191.347	114.412	11.986	1.00	130.23	CS3
ATOM	35664	CG	GLN	C	162	192.146	113.476	11.078	1.00	130.23	CS3
ATOM	35665	CD	GLN	C	162	193.475	114.069	10.632	1.00	130.23	CS3
ATOM	35666	OE1	GLN	C	162	193.520	115.163	10.070	1.00	130.23	CS3
ATOM	35667	NE2	GLN	C	162	194.563	113.342	10.874	1.00	130.23	CS3
ATOM	35668	C	GLN	C	162	192.148	116.212	13.515	1.00	57.93	CS3
ATOM	35669	O	GLN	C	162	191.176	116.955	13.391	1.00	57.93	CS3
ATOM	35670	N	ALA	C	163	193.374	116.647	13.798	1.00	46.75	CS3
ATOM	35671	CA	ALA	C	163	193.676	118.061	14.005	1.00	46.75	CS3
ATOM	35672	CB	ALA	C	163	195.165	118.252	14.063	1.00	69.77	CS3
ATOM	35673	C	ALA	C	163	193.084	118.976	12.935	1.00	46.75	CS3
ATOM	35674	O	ALA	C	163	193.387	118.844	11.755	1.00	46.75	CS3
ATOM	35675	N	ARG	C	164	192.238	119.909	13.350	1.00	56.85	CS3
ATOM	35676	CA	ARG	C	164	191.625	120.835	12.405	1.00	56.85	CS3
ATOM	35677	CB	ARG	C	164	190.100	120.910	12.622	1.00	78.02	CS3
ATOM	35678	CG	ARG	C	164	189.480	119.646	13.246	1.00	78.02	CS3
ATOM	35679	CD	ARG	C	164	187.978	119.430	12.943	1.00	78.02	CS3
ATOM	35680	NE	ARG	C	164	187.067	120.406	13.543	1.00	78.02	CS3
ATOM	35681	CZ	ARG	C	164	186.914	121.658	13.120	1.00	78.02	CS3
ATOM	35682	NH1	ARG	C	164	187.615	122.110	12.089	1.00	78.02	CS3
ATOM	35683	NH2	ARG	C	164	186.040	122.456	13.715	1.00	78.02	CS3
ATOM	35684	C	ARG	C	164	192.258	122.191	12.664	1.00	56.85	CS3
ATOM	35685	O	ARG	C	164	193.332	122.272	13.243	1.00	56.85	CS3
ATOM	35686	N	THR	C	165	191.591	123.252	12.232	1.00	72.01	CS3
ATOM	35687	CA	THR	C	165	192.079	124.609	12.436	1.00	72.01	CS3
ATOM	35688	CB	THR	C	165	193.265	124.932	11.488	1.00	63.52	CS3
ATOM	35689	OG1	THR	C	165	194.501	124.653	12.159	1.00	63.52	CS3
ATOM	35690	CG2	THR	C	165	193.252	126.392	11.072	1.00	63.52	CS3
ATOM	35691	C	THR	C	165	190.919	125.560	12.183	1.00	72.01	CS3
ATOM	35692	O	THR	C	165	190.402	125.637	11.065	1.00	72.01	CS3
ATOM	35693	N	GLU	C	166	190.506	126.281	13.222	1.00	52.81	CS3
ATOM	35694	CA	GLU	C	166	189.386	127.190	13.072	1.00	52.81	CS3
ATOM	35695	CB	GLU	C	166	188.406	127.008	14.226	1.00	103.78	CS3
ATOM	35696	CG	GLU	C	166	186.950	126.910	13.772	1.00	103.78	CS3
ATOM	35697	CD	GLU	C	166	186.749	125.939	12.616	1.00	103.78	CS3
ATOM	35698	OE1	GLU	C	166	187.217	124.785	12.713	1.00	103.78	CS3
ATOM	35699	OE2	GLU	C	166	186.114	126.330	11.613	1.00	103.78	CS3
ATOM	35700	C	GLU	C	166	189.782	128.650	12.918	1.00	52.81	CS3
ATOM	35701	O	GLU	C	166	190.609	129.188	13.663	1.00	52.81	CS3
ATOM	35702	N	TRP	C	167	189.150	129.261	11.919	1.00	88.81	CS3
ATOM	35703	CA	TRP	C	167	189.349	130.639	11.493	1.00	88.81	CS3
ATOM	35704	CB	TRP	C	167	188.909	130.740	10.040	1.00	84.48	CS3
ATOM	35705	CG	TRP	C	167	190.020	131.015	9.191	1.00	84.48	CS3
ATOM	35706	CD2	TRP	C	167	190.340	132.271	8.613	1.00	84.48	CS3
ATOM	35707	CE2	TRP	C	167	191.599	132.140	8.014	1.00	84.48	CS3
ATOM	35708	CE3	TRP	C	167	189.684	133.504	8.550	1.00	84.48	CS3
ATOM	35709	CD1	TRP	C	167	191.050	130.186	8.921	1.00	84.48	CS3
ATOM	35710	NE1	TRP	C	167	192.011	130.851	8.218	1.00	84.48	CS3
ATOM	35711	CZ2	TRP	C	167	192.231	133.200	7.357	1.00	84.48	CS3
ATOM	35712	CZ3	TRP	C	167	190.307	134.560	7.897	1.00	84.48	CS3
ATOM	35713	CH2	TRP	C	167	191.570	134.402	7.309	1.00	84.48	CS3
ATOM	35714	C	TRP	C	167	188.652	131.736	12.291	1.00	88.81	CS3
ATOM	35715	O	TRP	C	167	188.697	131.748	13.515	1.00	88.81	CS3
ATOM	35716	N	ALA	C	168	188.036	132.665	11.554	1.00	46.62	CS3
ATOM	35717	CA	ALA	C	168	187.268	133.809	12.070	1.00	46.62	CS3
ATOM	35718	CB	ALA	C	168	186.805	133.546	13.483	1.00	130.70	CS3



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ATOM	35719	C	ALA	C	168	187.993	135.137	12.019	1.00	46.62	CS3
ATOM	35720	O	ALA	C	168	189.026	135.315	12.667	1.00	46.62	CS3
ATOM	35721	N	ALA	C	169	187.438	136.078	11.263	1.00	61.03	CS3
ATOM	35722	CA	ALA	C	169	188.051	137.394	11.156	1.00	61.03	CS3
ATOM	35723	CB	ALA	C	169	189.391	137.265	10.507	1.00	20.15	CS3
ATOM	35724	C	ALA	C	169	187.204	138.423	10.404	1.00	61.03	CS3
ATOM	35725	O	ALA	C	169	186.597	138.110	9.376	1.00	61.03	CS3
ATOM	35726	N	GLN	C	170	187.178	139.650	10.922	1.00	45.19	CS3
ATOM	35727	CA	GLN	C	170	186.413	140.744	10.325	1.00	45.19	CS3
ATOM	35728	CB	GLN	C	170	185.240	141.136	11.234	1.00	119.26	CS3
ATOM	35729	CG	GLN	C	170	184.228	140.044	11.543	1.00	119.26	CS3
ATOM	35730	CD	GLN	C	170	183.247	140.456	12.643	1.00	119.26	CS3
ATOM	35731	OE1	GLN	C	170	182.650	141.533	12.590	1.00	119.26	CS3
ATOM	35732	NE2	GLN	C	170	183.077	139.591	13.641	1.00	119.26	CS3
ATOM	35733	C	GLN	C	170	187.294	141.994	10.115	1.00	45.19	CS3
ATOM	35734	O	GLN	C	170	188.152	142.314	10.949	1.00	45.19	CS3
ATOM	35735	N	GLY	C	171	187.067	142.689	8.999	1.00	54.40	CS3
ATOM	35736	CA	GLY	C	171	187.794	143.911	8.674	1.00	54.40	CS3
ATOM	35737	C	GLY	C	171	189.309	144.010	8.779	1.00	54.40	CS3
ATOM	35738	O	GLY	C	171	189.932	143.402	9.639	1.00	54.40	CS3
ATOM	35739	N	ARG	C	172	189.887	144.807	7.885	1.00	58.03	CS3
ATOM	35740	CA	ARG	C	172	191.324	145.073	7.820	1.00	58.03	CS3
ATOM	35741	CB	ARG	C	172	191.546	146.581	7.785	1.00	99.38	CS3
ATOM	35742	CG	ARG	C	172	190.980	147.262	6.566	1.00	99.38	CS3
ATOM	35743	CD	ARG	C	172	192.014	147.383	5.461	1.00	99.38	CS3
ATOM	35744	NE	ARG	C	172	192.910	148.529	5.641	1.00	99.38	CS3
ATOM	35745	CZ	ARG	C	172	193.866	148.615	6.564	1.00	99.38	CS3
ATOM	35746	NH1	ARG	C	172	194.070	147.616	7.412	1.00	99.38	CS3
ATOM	35747	NH2	ARG	C	172	194.628	149.701	6.636	1.00	99.38	CS3
ATOM	35748	C	ARG	C	172	192.187	144.493	8.941	1.00	58.03	CS3
ATOM	35749	O	ARG	C	172	192.081	144.922	10.093	1.00	58.03	CS3
ATOM	35750	N	VAL	C	173	193.043	143.529	8.593	1.00	50.35	CS3
ATOM	35751	CA	VAL	C	173	193.981	142.899	9.538	1.00	50.35	CS3
ATOM	35752	CB	VAL	C	173	193.428	141.553	10.073	1.00	57.90	CS3
ATOM	35753	CG1	VAL	C	173	194.387	140.955	11.110	1.00	57.90	CS3
ATOM	35754	CG2	VAL	C	173	192.058	141.763	10.691	1.00	57.90	CS3
ATOM	35755	C	VAL	C	173	195.291	142.637	8.778	1.00	50.35	CS3
ATOM	35756	O	VAL	C	173	195.850	141.547	8.847	1.00	50.35	CS3
ATOM	35757	N	PRO	C	174	195.802	143.658	8.059	1.00	71.27	CS3
ATOM	35758	CD	PRO	C	174	195.318	145.041	8.240	1.00	59.58	CS3
ATOM	35759	CA	PRO	C	174	197.023	143.658	7.235	1.00	71.27	CS3
ATOM	35760	CB	PRO	C	174	197.059	145.081	6.690	1.00	59.58	CS3
ATOM	35761	CG	PRO	C	174	196.511	145.866	7.839	1.00	59.58	CS3
ATOM	35762	C	PRO	C	174	198.345	143.263	7.877	1.00	71.27	CS3
ATOM	35763	O	PRO	C	174	199.189	144.115	8.150	1.00	71.27	CS3
ATOM	35764	N	LEU	C	175	198.531	141.964	8.082	1.00	51.46	CS3
ATOM	35765	CA	LEU	C	175	199.749	141.431	8.687	1.00	51.46	CS3
ATOM	35766	CB	LEU	C	175	199.700	139.901	8.687	1.00	59.26	CS3
ATOM	35767	CG	LEU	C	175	199.242	139.131	9.932	1.00	59.26	CS3
ATOM	35768	CD1	LEU	C	175	200.458	138.856	10.832	1.00	59.26	CS3
ATOM	35769	CD2	LEU	C	175	198.127	139.903	10.665	1.00	59.26	CS3
ATOM	35770	C	LEU	C	175	200.995	141.888	7.939	1.00	51.46	CS3
ATOM	35771	O	LEU	C	175	202.104	141.820	8.471	1.00	51.46	CS3
ATOM	35772	N	HIS	C	176	200.795	142.362	6.707	1.00	56.94	CS3
ATOM	35773	CA	HIS	C	176	201.882	142.804	5.828	1.00	56.94	CS3
ATOM	35774	CB	HIS	C	176	201.505	142.543	4.363	1.00	102.07	CS3
ATOM	35775	CG	HIS	C	176	202.357	141.515	3.682	1.00	102.07	CS3
ATOM	35776	CD2	HIS	C	176	203.497	141.639	2.960	1.00	102.07	CS3
ATOM	35777	ND1	HIS	C	176	202.041	140.172	3.668	1.00	102.07	CS3
ATOM	35778	CE1	HIS	C	176	202.943	139.515	2.962	1.00	102.07	CS3
ATOM	35779	NE2	HIS	C	176	203.837	140.383	2.520	1.00	102.07	CS3
ATOM	35780	C	HIS	C	176	202.260	144.272	5.957	1.00	56.94	CS3
ATOM	35781	O	HIS	C	176	203.445	144.610	5.961	1.00	56.94	CS3
ATOM	35782	N	THR	C	177	201.249	145.137	6.024	1.00	81.89	CS3
ATOM	35783	CA	THR	C	177	201.472	146.576	6.125	1.00	81.89	CS3
ATOM	35784	CB	THR	C	177	200.130	147.360	6.060	1.00	103.76	CS3
ATOM	35785	OG1	THR	C	177	200.392	148.766	5.998	1.00	103.76	CS3
ATOM	35786	CG2	THR	C	177	199.291	147.083	7.268	1.00	103.76	CS3
ATOM	35787	C	THR	C	177	202.245	146.934	7.394	1.00	81.89	CS3
ATOM	35788	O	THR	C	177	201.686	147.123	8.473	1.00	81.89	CS3
ATOM	35789	N	LEU	C	178	203.559	146.996	7.232	1.00	82.57	CS3
ATOM	35790	CA	LEU	C	178	204.495	147.317	8.296	1.00	82.57	CS3
ATOM	35791	CB	LEU	C	178	205.905	147.266	7.725	1.00	63.63	CS3
ATOM	35792	CG	LEU	C	178	207.060	147.431	8.692	1.00	63.63	CS3
ATOM	35793	CD1	LEU	C	178	206.878	146.485	9.881	1.00	63.63	CS3
ATOM	35794	CD2	LEU	C	178	208.361	147.167	7.945	1.00	63.63	CS3
ATOM	35795	C	LEU	C	178	204.192	148.714	8.786	1.00	82.57	CS3



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ATOM	35796	O	LEU	C	178	204.775	149.663	8.282	1.00	82.57	CS3
ATOM	35797	N	ARG	C	179	203.302	148.830	9.771	1.00	46.07	CS3
ATOM	35798	CA	ARG	C	179	202.869	150.125	10.317	1.00	46.07	CS3
ATOM	35799	CB	ARG	C	179	203.051	151.235	9.278	1.00	80.05	CS3
ATOM	35800	CG	ARG	C	179	202.088	152.389	9.404	1.00	80.05	CS3
ATOM	35801	CD	ARG	C	179	201.027	152.386	8.321	1.00	80.05	CS3
ATOM	35802	NE	ARG	C	179	201.548	152.976	7.091	1.00	80.05	CS3
ATOM	35803	CZ	ARG	C	179	200.830	153.675	6.211	1.00	80.05	CS3
ATOM	35804	NH1	ARG	C	179	199.533	153.890	6.413	1.00	80.05	CS3
ATOM	35805	NH2	ARG	C	179	201.421	154.161	5.122	1.00	80.05	CS3
ATOM	35806	C	ARG	C	179	201.389	150.028	10.660	1.00	46.07	CS3
ATOM	35807	O	ARG	C	179	200.731	151.020	10.918	1.00	46.07	CS3
ATOM	35808	N	ALA	C	180	200.863	148.816	10.653	1.00	99.11	CS3
ATOM	35809	CA	ALA	C	180	199.454	148.622	10.940	1.00	99.11	CS3
ATOM	35810	CB	ALA	C	180	199.046	147.207	10.576	1.00	137.87	CS3
ATOM	35811	C	ALA	C	180	199.113	148.888	12.389	1.00	99.11	CS3
ATOM	35812	O	ALA	C	180	198.195	149.660	12.692	1.00	99.11	CS3
ATOM	35813	N	ASN	C	181	199.874	148.253	13.274	1.00	64.18	CS3
ATOM	35814	CA	ASN	C	181	199.648	148.344	14.711	1.00	64.18	CS3
ATOM	35815	CB	ASN	C	181	199.094	149.702	15.140	1.00	117.96	CS3
ATOM	35816	CG	ASN	C	181	198.707	149.725	16.609	1.00	117.96	CS3
ATOM	35817	OD1	ASN	C	181	199.522	149.426	17.483	1.00	117.96	CS3
ATOM	35818	ND2	ASN	C	181	197.457	150.073	16.886	1.00	117.96	CS3
ATOM	35819	C	ASN	C	181	198.617	147.273	14.979	1.00	64.18	CS3
ATOM	35820	O	ASN	C	181	197.441	147.528	15.270	1.00	64.18	CS3
ATOM	35821	N	ILE	C	182	199.080	146.049	14.858	1.00	80.96	CS3
ATOM	35822	CA	ILE	C	182	198.216	144.924	15.052	1.00	80.96	CS3
ATOM	35823	CB	ILE	C	182	198.298	144.029	13.811	1.00	76.66	CS3
ATOM	35824	CG2	ILE	C	182	197.370	142.832	13.958	1.00	76.66	CS3
ATOM	35825	CG1	ILE	C	182	197.985	144.886	12.572	1.00	76.66	CS3
ATOM	35826	CD1	ILE	C	182	197.909	144.130	11.264	1.00	76.66	CS3
ATOM	35827	C	ILE	C	182	198.667	144.196	16.300	1.00	80.96	CS3
ATOM	35828	O	ILE	C	182	199.847	143.888	16.443	1.00	80.96	CS3
ATOM	35829	N	ASP	C	183	197.746	143.952	17.225	1.00	61.49	CS3
ATOM	35830	CA	ASP	C	183	198.127	143.243	18.433	1.00	61.49	CS3
ATOM	35831	CB	ASP	C	183	197.283	143.673	19.638	1.00	119.61	CS3
ATOM	35832	CG	ASP	C	183	197.817	143.105	20.955	1.00	119.61	CS3
ATOM	35833	OD1	ASP	C	183	197.199	143.338	22.015	1.00	119.61	CS3
ATOM	35834	OD2	ASP	C	183	198.863	142.422	20.931	1.00	119.61	CS3
ATOM	35835	C	ASP	C	183	197.978	141.751	18.215	1.00	61.49	CS3
ATOM	35836	O	ASP	C	183	196.974	141.271	17.674	1.00	61.49	CS3
ATOM	35837	N	TYR	C	184	199.004	141.026	18.635	1.00	45.91	CS3
ATOM	35838	CA	TYR	C	184	199.033	139.580	18.522	1.00	45.91	CS3
ATOM	35839	CB	TYR	C	184	200.327	139.132	17.848	1.00	65.39	CS3
ATOM	35840	CG	TYR	C	184	200.531	137.643	17.850	1.00	65.39	CS3
ATOM	35841	CD1	TYR	C	184	199.771	136.820	17.032	1.00	65.39	CS3
ATOM	35842	CE1	TYR	C	184	199.909	135.445	17.076	1.00	65.39	CS3
ATOM	35843	CD2	TYR	C	184	201.445	137.056	18.712	1.00	65.39	CS3
ATOM	35844	CE2	TYR	C	184	201.595	135.682	18.768	1.00	65.39	CS3
ATOM	35845	CZ	TYR	C	184	200.821	134.879	17.948	1.00	65.39	CS3
ATOM	35846	OH	TYR	C	184	200.943	133.507	18.015	1.00	65.39	CS3
ATOM	35847	C	TYR	C	184	198.980	139.001	19.921	1.00	45.91	CS3
ATOM	35848	O	TYR	C	184	199.639	139.501	20.836	1.00	45.91	CS3
ATOM	35849	N	GLY	C	185	198.204	137.943	20.088	1.00	72.77	CS3
ATOM	35850	CA	GLY	C	185	198.124	137.338	21.395	1.00	72.77	CS3
ATOM	35851	C	GLY	C	185	197.918	135.849	21.293	1.00	72.77	CS3
ATOM	35852	O	GLY	C	185	196.911	135.398	20.741	1.00	72.77	CS3
ATOM	35853	N	PHE	C	186	198.862	135.076	21.816	1.00	63.26	CS3
ATOM	35854	CA	PHE	C	186	198.732	133.629	21.770	1.00	63.26	CS3
ATOM	35855	CB	PHE	C	186	199.997	132.976	21.224	1.00	80.56	CS3
ATOM	35856	CG	PHE	C	186	200.025	131.495	21.434	1.00	80.56	CS3
ATOM	35857	CD1	PHE	C	186	199.298	130.650	20.599	1.00	80.56	CS3
ATOM	35858	CD2	PHE	C	186	200.696	130.949	22.527	1.00	80.56	CS3
ATOM	35859	CE1	PHE	C	186	199.233	129.274	20.855	1.00	80.56	CS3
ATOM	35860	CE2	PHE	C	186	200.637	129.580	22.793	1.00	80.56	CS3
ATOM	35861	CZ	PHE	C	186	199.902	128.737	21.954	1.00	80.56	CS3
ATOM	35862	C	PHE	C	186	198.441	133.029	23.137	1.00	63.26	CS3
ATOM	35863	O	PHE	C	186	199.028	133.427	24.141	1.00	63.26	CS3
ATOM	35864	N	ALA	C	187	197.548	132.047	23.160	1.00	62.04	CS3
ATOM	35865	CA	ALA	C	187	197.183	131.371	24.397	1.00	62.04	CS3
ATOM	35866	CB	ALA	C	187	195.816	131.857	24.870	1.00	44.69	CS3
ATOM	35867	C	ALA	C	187	197.157	129.859	24.176	1.00	62.04	CS3
ATOM	35868	O	ALA	C	187	196.652	129.380	23.154	1.00	62.04	CS3
ATOM	35869	N	LEU	C	188	197.704	129.116	25.135	1.00	52.18	CS3
ATOM	35870	CA	LEU	C	188	197.740	127.658	25.066	1.00	52.18	CS3
ATOM	35871	CB	LEU	C	188	198.760	127.129	26.074	1.00	66.59	CS3
ATOM	35872	CG	LEU	C	188	199.446	125.783	25.829	1.00	66.59	CS3



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ATOM	35873	CD1	LEU	C	188	198.492	124.632	26.065	1.00	66.59	CS3
ATOM	35874	CD2	LEU	C	188	199.994	125.771	24.423	1.00	66.59	CS3
ATOM	35875	C	LEU	C	188	196.335	127.199	25.437	1.00	52.18	CS3
ATOM	35876	O	LEU	C	188	195.402	127.986	25.344	1.00	52.18	CS3
ATOM	35877	N	ALA	C	189	196.167	125.944	25.850	1.00	50.16	CS3
ATOM	35878	CA	ALA	C	189	194.850	125.443	26.246	1.00	50.16	CS3
ATOM	35879	CB	ALA	C	189	193.846	125.597	25.097	1.00	5.65	CS3
ATOM	35880	C	ALA	C	189	194.917	123.991	26.658	1.00	50.16	CS3
ATOM	35881	O	ALA	C	189	194.276	123.155	26.034	1.00	50.16	CS3
ATOM	35882	N	ARG	C	190	195.685	123.681	27.699	1.00	71.76	CS3
ATOM	35883	CA	ARG	C	190	195.802	122.294	28.160	1.00	71.76	CS3
ATOM	35884	CB	ARG	C	190	196.473	122.253	29.537	1.00	122.39	CS3
ATOM	35885	CG	ARG	C	190	197.889	122.850	29.565	1.00	122.39	CS3
ATOM	35886	CD	ARG	C	190	198.563	122.731	30.940	1.00	122.39	CS3
ATOM	35887	NE	ARG	C	190	199.155	121.416	31.211	1.00	122.39	CS3
ATOM	35888	CZ	ARG	C	190	198.474	120.282	31.391	1.00	122.39	CS3
ATOM	35889	NH1	ARG	C	190	197.147	120.266	31.333	1.00	122.39	CS3
ATOM	35890	NH2	ARG	C	190	199.125	119.151	31.639	1.00	122.39	CS3
ATOM	35891	C	ARG	C	190	194.409	121.655	28.213	1.00	71.76	CS3
ATOM	35892	O	ARG	C	190	193.451	122.283	28.656	1.00	71.76	CS3
ATOM	35893	N	THR	C	191	194.297	120.411	27.758	1.00	65.31	CS3
ATOM	35894	CA	THR	C	191	193.001	119.737	27.714	1.00	65.31	CS3
ATOM	35895	CB	THR	C	191	192.358	119.888	26.331	1.00	41.38	CS3
ATOM	35896	OG1	THR	C	191	191.894	121.231	26.172	1.00	41.38	CS3
ATOM	35897	CG2	THR	C	191	191.203	118.921	26.165	1.00	41.38	CS3
ATOM	35898	C	THR	C	191	193.045	118.255	28.003	1.00	65.31	CS3
ATOM	35899	O	THR	C	191	194.088	117.631	27.903	1.00	65.31	CS3
ATOM	35900	N	THR	C	192	191.890	117.695	28.342	1.00	86.34	CS3
ATOM	35901	CA	THR	C	192	191.776	116.273	28.613	1.00	86.34	CS3
ATOM	35902	CB	THR	C	192	190.310	115.866	28.823	1.00	125.70	CS3
ATOM	35903	OG1	THR	C	192	190.202	114.437	28.830	1.00	125.70	CS3
ATOM	35904	CG2	THR	C	192	189.440	116.437	27.709	1.00	125.70	CS3
ATOM	35905	C	THR	C	192	192.320	115.500	27.420	1.00	86.34	CS3
ATOM	35906	O	THR	C	192	192.777	114.364	27.559	1.00	86.34	CS3
ATOM	35907	N	TYR	C	193	192.272	116.118	26.244	1.00	73.18	CS3
ATOM	35908	CA	TYR	C	193	192.770	115.458	25.049	1.00	73.18	CS3
ATOM	35909	CB	TYR	C	193	191.691	115.438	23.969	1.00	85.04	CS3
ATOM	35910	CG	TYR	C	193	191.026	116.762	23.727	1.00	85.04	CS3
ATOM	35911	CD1	TYR	C	193	191.733	117.839	23.198	1.00	85.04	CS3
ATOM	35912	CE1	TYR	C	193	191.105	119.065	22.960	1.00	85.04	CS3
ATOM	35913	CD2	TYR	C	193	189.677	116.936	24.016	1.00	85.04	CS3
ATOM	35914	CE2	TYR	C	193	189.038	118.150	23.785	1.00	85.04	CS3
ATOM	35915	CZ	TYR	C	193	189.751	119.214	23.258	1.00	85.04	CS3
ATOM	35916	OH	TYR	C	193	189.106	120.417	23.043	1.00	85.04	CS3
ATOM	35917	C	TYR	C	193	194.066	116.032	24.486	1.00	73.18	CS3
ATOM	35918	O	TYR	C	193	194.769	115.344	23.761	1.00	73.18	CS3
ATOM	35919	N	GLY	C	194	194.391	117.280	24.809	1.00	83.83	CS3
ATOM	35920	CA	GLY	C	194	195.631	117.840	24.297	1.00	83.83	CS3
ATOM	35921	C	GLY	C	194	195.727	119.346	24.127	1.00	83.83	CS3
ATOM	35922	O	GLY	C	194	194.727	120.060	24.046	1.00	83.83	CS3
ATOM	35923	N	VAL	C	195	196.964	119.821	24.071	1.00	72.90	CS3
ATOM	35924	CA	VAL	C	195	197.263	121.234	23.904	1.00	72.90	CS3
ATOM	35925	CB	VAL	C	195	198.778	121.446	23.789	1.00	110.82	CS3
ATOM	35926	CG1	VAL	C	195	199.080	122.887	23.453	1.00	110.82	CS3
ATOM	35927	CG2	VAL	C	195	199.454	121.043	25.069	1.00	110.82	CS3
ATOM	35928	C	VAL	C	195	196.638	121.765	22.627	1.00	72.90	CS3
ATOM	35929	O	VAL	C	195	196.724	121.110	21.591	1.00	72.90	CS3
ATOM	35930	N	LEU	C	196	196.020	122.944	22.691	1.00	61.56	CS3
ATOM	35931	CA	LEU	C	196	195.419	123.560	21.506	1.00	61.56	CS3
ATOM	35932	CB	LEU	C	196	193.908	123.354	21.484	1.00	72.69	CS3
ATOM	35933	CG	LEU	C	196	193.353	121.999	21.922	1.00	72.69	CS3
ATOM	35934	CD1	LEU	C	196	191.876	121.978	21.602	1.00	72.69	CS3
ATOM	35935	CD2	LEU	C	196	194.046	120.845	21.204	1.00	72.69	CS3
ATOM	35936	C	LEU	C	196	195.716	125.052	21.532	1.00	61.56	CS3
ATOM	35937	O	LEU	C	196	195.175	125.778	22.363	1.00	61.56	CS3
ATOM	35938	N	GLY	C	197	196.567	125.512	20.623	1.00	60.25	CS3
ATOM	35939	CA	GLY	C	197	196.927	126.921	20.589	1.00	60.25	CS3
ATOM	35940	C	GLY	C	197	195.809	127.883	20.219	1.00	60.25	CS3
ATOM	35941	O	GLY	C	197	194.845	127.499	19.547	1.00	60.25	CS3
ATOM	35942	N	VAL	C	198	195.937	129.140	20.651	1.00	46.72	CS3
ATOM	35943	CA	VAL	C	198	194.929	130.152	20.355	1.00	46.72	CS3
ATOM	35944	CB	VAL	C	198	193.972	130.348	21.541	1.00	66.25	CS3
ATOM	35945	CG1	VAL	C	198	192.865	131.317	21.153	1.00	66.25	CS3
ATOM	35946	CG2	VAL	C	198	193.381	129.011	21.962	1.00	66.25	CS3
ATOM	35947	C	VAL	C	198	195.536	131.502	20.003	1.00	46.72	CS3
ATOM	35948	O	VAL	C	198	196.177	132.148	20.830	1.00	46.72	CS3
ATOM	35949	N	LYS	C	199	195.318	131.929	18.769	1.00	62.81	CS3



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ATOM	35950	CA	LYS	C	199	195.848	133.205	18.317	1.00	62.81	CS3
ATOM	35951	CB	LYS	C	199	196.549	133.047	16.963	1.00	79.86	CS3
ATOM	35952	CG	LYS	C	199	197.909	132.368	17.032	1.00	79.86	CS3
ATOM	35953	CD	LYS	C	199	198.448	132.049	15.640	1.00	79.86	CS3
ATOM	35954	CE	LYS	C	199	199.781	131.313	15.727	1.00	79.86	CS3
ATOM	35955	NZ	LYS	C	199	199.819	130.090	14.877	1.00	79.86	CS3
ATOM	35956	C	LYS	C	199	194.757	134.253	18.205	1.00	62.81	CS3
ATOM	35957	O	LYS	C	199	193.628	133.950	17.831	1.00	62.81	CS3
ATOM	35958	N	ALA	C	200	195.113	135.489	18.532	1.00	56.08	CS3
ATOM	35959	CA	ALA	C	200	194.183	136.601	18.472	1.00	56.08	CS3
ATOM	35960	CB	ALA	C	200	193.689	136.941	19.864	1.00	140.41	CS3
ATOM	35961	C	ALA	C	200	194.914	137.789	17.866	1.00	56.08	CS3
ATOM	35962	O	ALA	C	200	196.008	138.156	18.316	1.00	56.08	CS3
ATOM	35963	N	TYR	C	201	194.301	138.378	16.843	1.00	57.95	CS3
ATOM	35964	CA	TYR	C	201	194.867	139.518	16.134	1.00	57.95	CS3
ATOM	35965	CB	TYR	C	201	195.109	139.158	14.666	1.00	94.44	CS3
ATOM	35966	CG	TYR	C	201	196.268	138.225	14.380	1.00	94.44	CS3
ATOM	35967	CD1	TYR	C	201	196.288	136.920	14.868	1.00	94.44	CS3
ATOM	35968	CE1	TYR	C	201	197.327	136.053	14.546	1.00	94.44	CS3
ATOM	35969	CD2	TYR	C	201	197.323	138.638	13.568	1.00	94.44	CS3
ATOM	35970	CE2	TYR	C	201	198.358	137.784	13.244	1.00	94.44	CS3
ATOM	35971	CZ	TYR	C	201	198.355	136.496	13.730	1.00	94.44	CS3
ATOM	35972	OH	TYR	C	201	199.370	135.644	13.365	1.00	50.69	CS3
ATOM	35973	C	TYR	C	201	193.937	140.725	16.164	1.00	57.95	CS3
ATOM	35974	O	TYR	C	201	192.831	140.675	15.611	1.00	57.95	CS3
ATOM	35975	N	ILE	C	202	194.375	141.816	16.781	1.00	81.28	CS3
ATOM	35976	CA	ILE	C	202	193.540	143.010	16.814	1.00	81.28	CS3
ATOM	35977	CB	ILE	C	202	193.197	143.434	18.242	1.00	83.58	CS3
ATOM	35978	CG2	ILE	C	202	192.174	144.566	18.197	1.00	83.58	CS3
ATOM	35979	CG1	ILE	C	202	192.648	142.231	19.020	1.00	83.58	CS3
ATOM	35980	CD1	ILE	C	202	192.373	142.490	20.498	1.00	83.58	CS3
ATOM	35981	C	ILE	C	202	194.215	144.178	16.111	1.00	81.28	CS3
ATOM	35982	O	ILE	C	202	195.314	144.606	16.466	1.00	81.28	CS3
ATOM	35983	N	PHE	C	203	193.537	144.692	15.103	1.00	76.46	CS3
ATOM	35984	CA	PHE	C	203	194.049	145.797	14.327	1.00	76.46	CS3
ATOM	35985	CB	PHE	C	203	193.672	145.577	12.870	1.00	42.88	CS3
ATOM	35986	CG	PHE	C	203	194.076	146.686	11.973	1.00	42.88	CS3
ATOM	35987	CD1	PHE	C	203	195.406	147.089	11.904	1.00	42.88	CS3
ATOM	35988	CD2	PHE	C	203	193.134	147.329	11.191	1.00	42.88	CS3
ATOM	35989	CE1	PHE	C	203	195.794	148.124	11.063	1.00	42.88	CS3
ATOM	35990	CE2	PHE	C	203	193.506	148.365	10.346	1.00	42.88	CS3
ATOM	35991	CZ	PHE	C	203	194.840	148.768	10.278	1.00	42.88	CS3
ATOM	35992	C	PHE	C	203	193.428	147.081	14.849	1.00	76.46	CS3
ATOM	35993	O	PHE	C	203	192.213	147.146	15.041	1.00	76.46	CS3
ATOM	35994	N	LEU	C	204	194.260	148.094	15.087	1.00	105.55	CS3
ATOM	35995	CA	LEU	C	204	193.796	149.393	15.598	1.00	105.55	CS3
ATOM	35996	CB	LEU	C	204	194.225	149.591	17.061	1.00	48.93	CS3
ATOM	35997	CG	LEU	C	204	194.538	148.323	17.870	1.00	48.93	CS3
ATOM	35998	CD1	LEU	C	204	195.538	148.653	18.965	1.00	48.93	CS3
ATOM	35999	CD2	LEU	C	204	193.257	147.704	18.434	1.00	48.93	CS3
ATOM	36000	C	LEU	C	204	194.430	150.496	14.760	1.00	105.55	CS3
ATOM	36001	O	LEU	C	204	195.648	150.513	14.585	1.00	105.55	CS3
ATOM	36002	N	GLY	C	205	193.617	151.416	14.251	1.00	115.14	CS3
ATOM	36003	CA	GLY	C	205	194.152	152.499	13.442	1.00	115.14	CS3
ATOM	36004	C	GLY	C	205	195.326	152.081	12.569	1.00	115.14	CS3
ATOM	36005	O	GLY	C	205	195.527	150.897	12.305	1.00	115.14	CS3
ATOM	36006	N	GLU	C	206	196.114	153.045	12.111	1.00	127.82	CS3
ATOM	36007	CA	GLU	C	206	197.249	152.699	11.277	1.00	127.82	CS3
ATOM	36008	CB	GLU	C	206	196.924	152.951	9.803	1.00	104.69	CS3
ATOM	36009	CG	GLU	C	206	197.896	152.273	8.850	1.00	104.69	CS3
ATOM	36010	CD	GLU	C	206	197.310	152.043	7.468	1.00	104.69	CS3
ATOM	36011	OE1	GLU	C	206	198.055	151.571	6.578	1.00	104.69	CS3
ATOM	36012	OE2	GLU	C	206	196.105	152.328	7.276	1.00	104.69	CS3
ATOM	36013	C	GLU	C	206	198.524	153.423	11.676	1.00	127.82	CS3
ATOM	36014	O	GLU	C	206	199.276	152.907	12.500	1.00	127.82	CS3
ATOM	36015	N	VAL	C	207	198.767	154.611	11.118	1.00	136.16	CS3
ATOM	36016	CA	VAL	C	207	199.992	155.367	11.424	1.00	136.16	CS3
ATOM	36017	CB	VAL	C	207	199.885	156.853	10.972	1.00	80.73	CS3
ATOM	36018	CG1	VAL	C	207	201.149	157.613	11.358	1.00	80.73	CS3
ATOM	36019	CG2	VAL	C	207	199.682	156.927	9.466	1.00	80.73	CS3
ATOM	36020	C	VAL	C	207	200.370	155.343	12.907	1.00	136.16	CS3
ATOM	36021	O	VAL	C	207	199.467	155.145	13.746	1.00	136.16	CS3
ATOM	36022	OXT	VAL	C	207	201.569	155.528	13.212	1.00	80.73	CS3
TER	36022		VAL	C	207						CS3
ATOM	36023	C	GLY	D	2	149.333	96.198	32.789	1.00	76.16	DS4
ATOM	36024	O	GLY	D	2	150.512	96.334	32.464	1.00	76.16	DS4
ATOM	36025	N	GLY	D	2	148.653	94.020	31.692	1.00	76.16	DS4



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ATOM	36026	CA	GLY	D	2	148.734	94.811	32.955	1.00	76.16	DS4
ATOM	36027	N	ARG	D	3	148.521	97.224	33.038	1.00	78.33	DS4
ATOM	36028	CA	ARG	D	3	148.929	98.623	32.911	1.00	78.33	DS4
ATOM	36029	CB	ARG	D	3	147.791	99.528	33.394	1.00	198.94	DS4
ATOM	36030	CG	ARG	D	3	146.475	99.264	32.682	1.00	198.94	DS4
ATOM	36031	CD	ARG	D	3	146.642	99.380	31.169	1.00	198.94	DS4
ATOM	36032	NE	ARG	D	3	145.642	98.599	30.446	1.00	198.94	DS4
ATOM	36033	CZ	ARG	D	3	144.356	98.921	30.339	1.00	198.94	DS4
ATOM	36034	NH1	ARG	D	3	143.885	100.028	30.900	1.00	198.94	DS4
ATOM	36035	NH2	ARG	D	3	143.534	98.115	29.687	1.00	198.94	DS4
ATOM	36036	C	ARG	D	3	150.229	99.013	33.623	1.00	78.33	DS4
ATOM	36037	O	ARG	D	3	150.385	98.801	34.822	1.00	78.33	DS4
ATOM	36038	N	TYR	D	4	151.139	99.613	32.861	1.00	143.37	DS4
ATOM	36039	CA	TYR	D	4	152.448	100.059	33.335	1.00	143.37	DS4
ATOM	36040	CB	TYR	D	4	152.515	101.585	33.362	1.00	71.69	DS4
ATOM	36041	CG	TYR	D	4	153.850	102.098	33.868	1.00	71.69	DS4
ATOM	36042	CD1	TYR	D	4	155.044	101.572	33.384	1.00	71.69	DS4
ATOM	36043	CE1	TYR	D	4	156.260	102.001	33.869	1.00	71.69	DS4
ATOM	36044	CD2	TYR	D	4	153.917	103.080	34.854	1.00	71.69	DS4
ATOM	36045	CE2	TYR	D	4	155.134	103.517	35.345	1.00	71.69	DS4
ATOM	36046	CZ	TYR	D	4	156.298	102.967	34.849	1.00	71.69	DS4
ATOM	36047	OH	TYR	D	4	157.509	103.355	35.358	1.00	71.69	DS4
ATOM	36048	C	TYR	D	4	152.975	99.543	34.669	1.00	143.37	DS4
ATOM	36049	O	TYR	D	4	153.654	98.515	34.721	1.00	143.37	DS4
ATOM	36050	N	ILE	D	5	152.682	100.274	35.741	1.00	108.32	DS4
ATOM	36051	CA	ILE	D	5	153.165	99.912	37.068	1.00	108.32	DS4
ATOM	36052	CB	ILE	D	5	152.774	98.484	37.459	1.00	99.58	DS4
ATOM	36053	CG2	ILE	D	5	153.673	97.978	38.570	1.00	99.58	DS4
ATOM	36054	CG1	ILE	D	5	151.314	98.464	37.896	1.00	99.58	DS4
ATOM	36055	CD1	ILE	D	5	150.828	97.101	38.301	1.00	99.58	DS4
ATOM	36056	C	ILE	D	5	154.675	100.008	37.074	1.00	108.32	DS4
ATOM	36057	O	ILE	D	5	155.365	99.171	36.492	1.00	108.32	DS4
ATOM	36058	N	GLY	D	6	155.176	101.041	37.738	1.00	52.37	DS4
ATOM	36059	CA	GLY	D	6	156.609	101.265	37.824	1.00	52.37	DS4
ATOM	36060	C	GLY	D	6	156.811	102.709	38.206	1.00	52.37	DS4
ATOM	36061	O	GLY	D	6	155.832	103.450	38.287	1.00	52.37	DS4
ATOM	36062	N	PRO	D	7	158.046	103.154	38.450	1.00	60.77	DS4
ATOM	36063	CD	PRO	D	7	159.363	102.592	38.129	1.00	74.45	DS4
ATOM	36064	CA	PRO	D	7	158.149	104.566	38.815	1.00	60.77	DS4
ATOM	36065	CB	PRO	D	7	159.648	104.839	38.736	1.00	74.45	DS4
ATOM	36066	CG	PRO	D	7	160.129	103.824	37.745	1.00	74.45	DS4
ATOM	36067	C	PRO	D	7	157.327	105.412	37.847	1.00	60.77	DS4
ATOM	36068	O	PRO	D	7	157.531	105.365	36.632	1.00	60.77	DS4
ATOM	36069	N	VAL	D	8	156.373	106.160	38.392	1.00	54.52	DS4
ATOM	36070	CA	VAL	D	8	155.513	107.001	37.574	1.00	54.52	DS4
ATOM	36071	CB	VAL	D	8	154.081	106.965	38.087	1.00	53.93	DS4
ATOM	36072	CG1	VAL	D	8	153.176	107.650	37.112	1.00	53.93	DS4
ATOM	36073	CG2	VAL	D	8	153.651	105.525	38.275	1.00	53.93	DS4
ATOM	36074	C	VAL	D	8	155.979	108.450	37.472	1.00	54.52	DS4
ATOM	36075	O	VAL	D	8	156.244	108.910	36.369	1.00	54.52	DS4
ATOM	36076	N	CYS	D	9	156.070	109.175	38.592	1.00	149.10	DS4
ATOM	36077	CA	CYS	D	9	156.533	110.564	38.531	1.00	149.10	DS4
ATOM	36078	CB	CYS	D	9	156.402	111.273	39.912	1.00	27.64	DS4
ATOM	36079	SG	CYS	D	9	156.094	113.112	39.828	1.00	27.64	DS4
ATOM	36080	C	CYS	D	9	157.995	110.461	38.059	1.00	149.10	DS4
ATOM	36081	O	CYS	D	9	158.934	110.654	38.824	1.00	149.10	DS4
ATOM	36082	N	ARG	D	10	158.138	110.103	36.781	1.00	70.40	DS4
ATOM	36083	CA	ARG	D	10	159.404	109.927	36.057	1.00	70.40	DS4
ATOM	36084	CB	ARG	D	10	159.978	108.516	36.249	1.00	54.38	DS4
ATOM	36085	CG	ARG	D	10	159.671	107.557	35.090	1.00	54.38	DS4
ATOM	36086	CD	ARG	D	10	160.115	106.105	35.373	1.00	54.38	DS4
ATOM	36087	NE	ARG	D	10	161.549	105.867	35.210	1.00	54.38	DS4
ATOM	36088	CZ	ARG	D	10	162.189	105.957	34.051	1.00	54.38	DS4
ATOM	36089	NH1	ARG	D	10	161.532	106.280	32.946	1.00	54.38	DS4
ATOM	36090	NH2	ARG	D	10	163.486	105.719	33.991	1.00	54.38	DS4
ATOM	36091	C	ARG	D	10	159.002	110.092	34.594	1.00	70.40	DS4
ATOM	36092	O	ARG	D	10	159.800	110.496	33.756	1.00	70.40	DS4
ATOM	36093	N	LEU	D	11	157.757	109.717	34.308	1.00	73.91	DS4
ATOM	36094	CA	LEU	D	11	157.166	109.859	32.984	1.00	73.91	DS4
ATOM	36095	CB	LEU	D	11	155.891	109.032	32.855	1.00	68.01	DS4
ATOM	36096	CG	LEU	D	11	155.976	107.596	33.365	1.00	68.01	DS4
ATOM	36097	CD1	LEU	D	11	154.581	106.995	33.428	1.00	68.01	DS4
ATOM	36098	CD2	LEU	D	11	156.901	106.782	32.462	1.00	68.01	DS4
ATOM	36099	C	LEU	D	11	156.786	111.318	33.051	1.00	73.91	DS4
ATOM	36100	O	LEU	D	11	156.844	112.035	32.056	1.00	73.91	DS4
ATOM	36101	N	CYS	D	12	156.370	111.734	34.250	1.00	64.29	DS4
ATOM	36102	CA	CYS	D	12	156.020	113.126	34.518	1.00	64.29	DS4



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ATOM	36103	CB	CYS	D	12	155.991	113.419	36.061	1.00	55.15	DS4
ATOM	36104	SG	CYS	D	12	154.434	113.429	37.123	1.00	55.15	DS4
ATOM	36105	C	CYS	D	12	157.245	113.838	33.898	1.00	64.29	DS4
ATOM	36106	O	CYS	D	12	157.121	114.741	33.067	1.00	64.29	DS4
ATOM	36107	N	ARG	D	13	158.428	113.353	34.283	1.00	50.41	DS4
ATOM	36108	CA	ARG	D	13	159.712	113.913	33.870	1.00	50.41	DS4
ATOM	36109	CB	ARG	D	13	160.826	113.351	34.754	1.00	67.97	DS4
ATOM	36110	CG	ARG	D	13	160.676	113.715	36.225	1.00	67.97	DS4
ATOM	36111	CD	ARG	D	13	162.022	114.037	36.841	1.00	67.97	DS4
ATOM	36112	NE	ARG	D	13	162.918	112.883	36.857	1.00	67.97	DS4
ATOM	36113	CZ	ARG	D	13	164.242	112.964	36.727	1.00	67.97	DS4
ATOM	36114	NH1	ARG	D	13	164.824	114.148	36.571	1.00	67.97	DS4
ATOM	36115	NH2	ARG	D	13	164.987	111.863	36.742	1.00	67.97	DS4
ATOM	36116	C	ARG	D	13	160.129	113.786	32.424	1.00	50.41	DS4
ATOM	36117	O	ARG	D	13	160.890	114.615	31.937	1.00	50.41	DS4
ATOM	36118	N	ARG	D	14	159.659	112.746	31.745	1.00	69.64	DS4
ATOM	36119	CA	ARG	D	14	159.986	112.528	30.335	1.00	69.64	DS4
ATOM	36120	CB	ARG	D	14	159.678	111.086	29.935	1.00	77.42	DS4
ATOM	36121	CG	ARG	D	14	159.613	110.863	28.438	1.00	77.42	DS4
ATOM	36122	CD	ARG	D	14	160.877	111.347	27.780	1.00	77.42	DS4
ATOM	36123	NE	ARG	D	14	162.035	110.616	28.270	1.00	77.42	DS4
ATOM	36124	CZ	ARG	D	14	163.283	110.888	27.917	1.00	77.42	DS4
ATOM	36125	NH1	ARG	D	14	163.530	111.882	27.070	1.00	77.42	DS4
ATOM	36126	NH2	ARG	D	14	164.283	110.163	28.400	1.00	77.42	DS4
ATOM	36127	C	ARG	D	14	159.166	113.471	29.467	1.00	69.64	DS4
ATOM	36128	O	ARG	D	14	159.697	114.149	28.586	1.00	69.64	DS4
ATOM	36129	N	GLU	D	15	157.861	113.494	29.712	1.00	74.56	DS4
ATOM	36130	CA	GLU	D	15	156.983	114.370	28.967	1.00	74.56	DS4
ATOM	36131	CB	GLU	D	15	155.518	113.991	29.188	1.00	85.59	DS4
ATOM	36132	CG	GLU	D	15	154.929	113.134	28.077	1.00	85.59	DS4
ATOM	36133	CD	GLU	D	15	155.697	111.842	27.869	1.00	85.59	DS4
ATOM	36134	OE1	GLU	D	15	155.859	111.090	28.850	1.00	85.59	DS4
ATOM	36135	OE2	GLU	D	15	156.135	111.574	26.730	1.00	85.59	DS4
ATOM	36136	C	GLU	D	15	157.230	115.787	29.441	1.00	74.56	DS4
ATOM	36137	O	GLU	D	15	156.492	116.696	29.086	1.00	74.56	DS4
ATOM	36138	N	GLY	D	16	158.269	115.967	30.252	1.00	112.08	DS4
ATOM	36139	CA	GLY	D	16	158.612	117.285	30.761	1.00	112.08	DS4
ATOM	36140	C	GLY	D	16	157.431	118.157	31.151	1.00	112.08	DS4
ATOM	36141	O	GLY	D	16	157.561	119.370	31.299	1.00	112.08	DS4
ATOM	36142	N	VAL	D	17	156.270	117.541	31.312	1.00	59.58	DS4
ATOM	36143	CA	VAL	D	17	155.073	118.262	31.694	1.00	59.58	DS4
ATOM	36144	CB	VAL	D	17	154.057	118.305	30.534	1.00	64.82	DS4
ATOM	36145	CG1	VAL	D	17	152.634	118.238	31.056	1.00	64.82	DS4
ATOM	36146	CG2	VAL	D	17	154.251	119.595	29.745	1.00	64.82	DS4
ATOM	36147	C	VAL	D	17	154.484	117.563	32.909	1.00	59.58	DS4
ATOM	36148	O	VAL	D	17	154.654	116.353	33.085	1.00	59.58	DS4
ATOM	36149	N	LYS	D	18	153.800	118.331	33.752	1.00	73.90	DS4
ATOM	36150	CA	LYS	D	18	153.209	117.793	34.969	1.00	73.90	DS4
ATOM	36151	CB	LYS	D	18	152.749	118.945	35.871	1.00	105.71	DS4
ATOM	36152	CG	LYS	D	18	152.754	118.636	37.372	1.00	105.71	DS4
ATOM	36153	CD	LYS	D	18	152.414	119.890	38.184	1.00	105.71	DS4
ATOM	36154	CE	LYS	D	18	152.621	119.694	39.681	1.00	105.71	DS4
ATOM	36155	NZ	LYS	D	18	152.233	120.914	40.448	1.00	105.71	DS4
ATOM	36156	C	LYS	D	18	152.044	116.839	34.703	1.00	73.90	DS4
ATOM	36157	O	LYS	D	18	151.083	117.173	34.010	1.00	73.90	DS4
ATOM	36158	N	LEU	D	19	152.147	115.638	35.253	1.00	139.48	DS4
ATOM	36159	CA	LEU	D	19	151.092	114.653	35.111	1.00	139.48	DS4
ATOM	36160	CB	LEU	D	19	151.582	113.446	34.333	1.00	61.96	DS4
ATOM	36161	CG	LEU	D	19	152.220	113.738	32.983	1.00	61.96	DS4
ATOM	36162	CD1	LEU	D	19	152.999	112.521	32.542	1.00	61.96	DS4
ATOM	36163	CD2	LEU	D	19	151.152	114.107	31.976	1.00	61.96	DS4
ATOM	36164	C	LEU	D	19	150.745	114.246	36.525	1.00	139.48	DS4
ATOM	36165	O	LEU	D	19	151.628	113.940	37.337	1.00	139.48	DS4
ATOM	36166	N	TYR	D	20	149.455	114.261	36.823	1.00	125.18	DS4
ATOM	36167	CA	TYR	D	20	148.997	113.906	38.151	1.00	125.18	DS4
ATOM	36168	CB	TYR	D	20	147.814	114.785	38.541	1.00	94.15	DS4
ATOM	36169	CG	TYR	D	20	148.104	116.256	38.355	1.00	94.15	DS4
ATOM	36170	CD1	TYR	D	20	147.914	116.872	37.120	1.00	94.15	DS4
ATOM	36171	CE1	TYR	D	20	148.224	118.217	36.930	1.00	94.15	DS4
ATOM	36172	CD2	TYR	D	20	148.614	117.023	39.402	1.00	94.15	DS4
ATOM	36173	CE2	TYR	D	20	148.929	118.367	39.224	1.00	94.15	DS4
ATOM	36174	CZ	TYR	D	20	148.732	118.958	37.988	1.00	94.15	DS4
ATOM	36175	OH	TYR	D	20	149.042	120.289	37.808	1.00	94.15	DS4
ATOM	36176	C	TYR	D	20	148.623	112.440	38.179	1.00	125.18	DS4
ATOM	36177	O	TYR	D	20	147.450	112.070	38.164	1.00	125.18	DS4
ATOM	36178	N	LEU	D	21	149.650	111.605	38.214	1.00	86.92	DS4
ATOM	36179	CA	LEU	D	21	149.467	110.170	38.232	1.00	86.92	DS4



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ATOM	36180	CB	LEU	D	21	150.582	109.528	37.406	1.00	96.51	DS4
ATOM	36181	CG	LEU	D	21	150.630	110.107	35.977	1.00	96.51	DS4
ATOM	36182	CD1	LEU	D	21	151.980	109.852	35.329	1.00	96.51	DS4
ATOM	36183	CD2	LEU	D	21	149.499	109.511	35.137	1.00	96.51	DS4
ATOM	36184	C	LEU	D	21	149.512	109.722	39.680	1.00	86.92	DS4
ATOM	36185	O	LEU	D	21	149.631	108.532	39.980	1.00	86.92	DS4
ATOM	36186	N	LYS	D	22	149.388	110.700	40.576	1.00	98.54	DS4
ATOM	36187	CA	LYS	D	22	149.432	110.438	42.004	1.00	98.54	DS4
ATOM	36188	CB	LYS	D	22	150.850	110.668	42.516	1.00	59.97	DS4
ATOM	36189	CG	LYS	D	22	151.684	109.410	42.630	1.00	59.97	DS4
ATOM	36190	CD	LYS	D	22	153.044	109.717	43.216	1.00	59.97	DS4
ATOM	36191	CE	LYS	D	22	153.818	108.445	43.477	1.00	59.97	DS4
ATOM	36192	NZ	LYS	D	22	155.139	108.745	44.076	1.00	59.97	DS4
ATOM	36193	C	LYS	D	22	148.462	111.241	42.865	1.00	98.54	DS4
ATOM	36194	O	LYS	D	22	148.553	111.210	44.097	1.00	98.54	DS4
ATOM	36195	N	GLY	D	23	147.529	111.949	42.243	1.00	173.38	DS4
ATOM	36196	CA	GLY	D	23	146.598	112.727	43.037	1.00	173.38	DS4
ATOM	36197	C	GLY	D	23	147.382	113.600	43.999	1.00	173.38	DS4
ATOM	36198	O	GLY	D	23	148.156	114.447	43.550	1.00	173.38	DS4
ATOM	36199	N	GLU	D	24	147.219	113.391	45.309	1.00	90.00	DS4
ATOM	36200	CA	GLU	D	24	147.939	114.208	46.283	1.00	90.00	DS4
ATOM	36201	CB	GLU	D	24	147.652	113.782	47.725	1.00	157.93	DS4
ATOM	36202	CG	GLU	D	24	148.310	114.725	48.739	1.00	157.93	DS4
ATOM	36203	CD	GLU	D	24	147.997	114.390	50.184	1.00	157.93	DS4
ATOM	36204	OE1	GLU	D	24	146.802	114.403	50.549	1.00	157.93	DS4
ATOM	36205	OE2	GLU	D	24	148.948	114.124	50.956	1.00	157.93	DS4
ATOM	36206	C	GLU	D	24	149.423	114.104	46.023	1.00	90.00	DS4
ATOM	36207	O	GLU	D	24	149.865	113.221	45.301	1.00	90.00	DS4
ATOM	36208	N	ARG	D	25	150.184	115.010	46.621	1.00	73.16	DS4
ATOM	36209	CA	ARG	D	25	151.632	115.073	46.461	1.00	73.16	DS4
ATOM	36210	CB	ARG	D	25	152.322	113.710	46.575	1.00	62.36	DS4
ATOM	36211	CG	ARG	D	25	153.846	113.889	46.602	1.00	62.36	DS4
ATOM	36212	CD	ARG	D	25	154.676	112.606	46.548	1.00	62.36	DS4
ATOM	36213	NE	ARG	D	25	156.001	112.846	47.129	1.00	62.36	DS4
ATOM	36214	CZ	ARG	D	25	157.076	112.098	46.905	1.00	62.36	DS4
ATOM	36215	NH1	ARG	D	25	156.993	111.050	46.100	1.00	62.36	DS4
ATOM	36216	NH2	ARG	D	25	158.233	112.393	47.490	1.00	62.36	DS4
ATOM	36217	C	ARG	D	25	151.992	115.652	45.119	1.00	73.16	DS4
ATOM	36218	O	ARG	D	25	152.855	116.524	45.037	1.00	73.16	DS4
ATOM	36219	N	CYS	D	26	151.349	115.164	44.059	1.00	146.44	DS4
ATOM	36220	CA	CYS	D	26	151.629	115.678	42.729	1.00	146.44	DS4
ATOM	36221	CB	CYS	D	26	150.853	114.881	41.656	1.00	46.09	DS4
ATOM	36222	SG	CYS	D	26	151.950	113.920	40.491	1.00	46.09	DS4
ATOM	36223	C	CYS	D	26	151.236	117.158	42.778	1.00	146.44	DS4
ATOM	36224	O	CYS	D	26	151.187	117.846	41.760	1.00	146.44	DS4
ATOM	36225	N	TYR	D	27	150.977	117.626	44.003	1.00	83.04	DS4
ATOM	36226	CA	TYR	D	27	150.628	119.015	44.303	1.00	83.04	DS4
ATOM	36227	CB	TYR	D	27	149.226	119.111	44.893	1.00	90.22	DS4
ATOM	36228	CG	TYR	D	27	148.144	118.722	43.929	1.00	90.22	DS4
ATOM	36229	CD1	TYR	D	27	147.979	117.397	43.545	1.00	90.22	DS4
ATOM	36230	CE1	TYR	D	27	146.986	117.030	42.646	1.00	90.22	DS4
ATOM	36231	CD2	TYR	D	27	147.288	119.680	43.388	1.00	90.22	DS4
ATOM	36232	CE2	TYR	D	27	146.289	119.328	42.487	1.00	90.22	DS4
ATOM	36233	CZ	TYR	D	27	146.144	117.996	42.120	1.00	90.22	DS4
ATOM	36234	OH	TYR	D	27	145.166	117.619	41.223	1.00	90.22	DS4
ATOM	36235	C	TYR	D	27	151.618	119.609	45.308	1.00	83.04	DS4
ATOM	36236	O	TYR	D	27	151.852	120.820	45.321	1.00	83.04	DS4
ATOM	36237	N	SER	D	28	152.190	118.750	46.149	1.00	78.68	DS4
ATOM	36238	CA	SER	D	28	153.156	119.175	47.162	1.00	78.68	DS4
ATOM	36239	CB	SER	D	28	153.016	118.324	48.429	1.00	157.23	DS4
ATOM	36240	OG	SER	D	28	153.577	117.034	48.248	1.00	157.23	DS4
ATOM	36241	C	SER	D	28	154.581	119.049	46.632	1.00	78.68	DS4
ATOM	36242	O	SER	D	28	155.005	117.958	46.259	1.00	78.68	DS4
ATOM	36243	N	PRO	D	29	155.346	120.161	46.636	1.00	88.07	DS4
ATOM	36244	CD	PRO	D	29	155.069	121.321	47.505	1.00	99.59	DS4
ATOM	36245	CA	PRO	D	29	156.728	120.218	46.158	1.00	88.07	DS4
ATOM	36246	CB	PRO	D	29	157.378	121.183	47.135	1.00	99.59	DS4
ATOM	36247	CG	PRO	D	29	156.312	122.177	47.332	1.00	99.59	DS4
ATOM	36248	C	PRO	D	29	157.404	118.859	46.142	1.00	88.07	DS4
ATOM	36249	O	PRO	D	29	158.251	118.568	46.985	1.00	88.07	DS4
ATOM	36250	N	LYS	D	30	157.028	118.038	45.163	1.00	189.32	DS4
ATOM	36251	CA	LYS	D	30	157.578	116.701	45.031	1.00	189.32	DS4
ATOM	36252	CB	LYS	D	30	157.123	115.833	46.216	1.00	78.80	DS4
ATOM	36253	CG	LYS	D	30	157.767	116.172	47.566	1.00	78.80	DS4
ATOM	36254	CD	LYS	D	30	157.083	115.451	48.733	1.00	78.80	DS4
ATOM	36255	CE	LYS	D	30	157.695	115.803	50.101	1.00	78.80	DS4
ATOM	36256	NZ	LYS	D	30	156.989	115.152	51.265	1.00	78.80	DS4



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ATOM	36257	C	LYS	D	30	157.259	115.970	43.715	1.00189.32	DS4
ATOM	36258	O	LYS	D	30	157.896	114.957	43.439	1.00189.32	DS4
ATOM	36259	N	CYS	D	31	156.305	116.447	42.901	1.00 87.57	DS4
ATOM	36260	CA	CYS	D	31	155.990	115.744	41.636	1.00 87.57	DS4
ATOM	36261	CB	CYS	D	31	154.766	116.317	40.917	1.00 27.85	DS4
ATOM	36262	SG	CYS	D	31	154.272	115.401	39.429	1.00 27.85	DS4
ATOM	36263	C	CYS	D	31	157.187	115.867	40.727	1.00 87.57	DS4
ATOM	36264	O	CYS	D	31	157.061	115.762	39.506	1.00 87.57	DS4
ATOM	36265	N	ALA	D	32	158.333	116.096	41.379	1.00 87.53	DS4
ATOM	36266	CA	ALA	D	32	159.669	116.242	40.805	1.00 87.53	DS4
ATOM	36267	CB	ALA	D	32	160.176	114.903	40.301	1.00109.52	DS4
ATOM	36268	C	ALA	D	32	159.766	117.279	39.717	1.00 87.53	DS4
ATOM	36269	O	ALA	D	32	160.834	117.856	39.500	1.00 87.53	DS4
ATOM	36270	N	MET	D	33	158.654	117.519	39.029	1.00101.77	DS4
ATOM	36271	CA	MET	D	33	158.640	118.521	37.981	1.00101.77	DS4
ATOM	36272	CB	MET	D	33	157.277	118.563	37.287	1.00 82.64	DS4
ATOM	36273	CG	MET	D	33	157.087	117.424	36.282	1.00 82.64	DS4
ATOM	36274	SD	MET	D	33	158.568	117.151	35.252	1.00 82.64	DS4
ATOM	36275	CE	MET	D	33	158.428	118.511	34.103	1.00 82.64	DS4
ATOM	36276	C	MET	D	33	158.948	119.808	38.716	1.00101.77	DS4
ATOM	36277	O	MET	D	33	158.947	120.911	38.156	1.00101.77	DS4
ATOM	36278	N	GLU	D	34	159.204	119.621	40.004	1.00 87.66	DS4
ATOM	36279	CA	GLU	D	34	159.583	120.680	40.901	1.00 87.66	DS4
ATOM	36280	CB	GLU	D	34	158.856	120.522	42.233	1.00103.17	DS4
ATOM	36281	CG	GLU	D	34	158.177	121.795	42.713	1.00103.17	DS4
ATOM	36282	CD	GLU	D	34	156.971	122.184	41.865	1.00103.17	DS4
ATOM	36283	OE1	GLU	D	34	155.953	121.457	41.899	1.00103.17	DS4
ATOM	36284	OE2	GLU	D	34	157.038	123.217	41.166	1.00103.17	DS4
ATOM	36285	C	GLU	D	34	161.088	120.448	41.068	1.00 87.66	DS4
ATOM	36286	O	GLU	D	34	161.522	119.396	41.563	1.00 87.66	DS4
ATOM	36287	N	ARG	D	35	161.874	121.418	40.606	1.00176.42	DS4
ATOM	36288	CA	ARG	D	35	163.333	121.365	40.681	1.00176.42	DS4
ATOM	36289	CB	ARG	D	35	163.776	121.674	42.114	1.00198.59	DS4
ATOM	36290	CG	ARG	D	35	163.414	123.092	42.572	1.00198.59	DS4
ATOM	36291	CD	ARG	D	35	163.643	123.278	44.071	1.00198.59	DS4
ATOM	36292	NE	ARG	D	35	163.396	124.650	44.514	1.00198.59	DS4
ATOM	36293	CZ	ARG	D	35	163.463	125.054	45.781	1.00198.59	DS4
ATOM	36294	NH1	ARG	D	35	163.768	124.192	46.742	1.00198.59	DS4
ATOM	36295	NH2	ARG	D	35	163.231	126.324	46.088	1.00198.59	DS4
ATOM	36296	C	ARG	D	35	163.957	120.050	40.187	1.00176.42	DS4
ATOM	36297	O	ARG	D	35	164.804	119.454	40.852	1.00176.42	DS4
ATOM	36298	N	ARG	D	36	163.518	119.621	39.005	1.00 85.52	DS4
ATOM	36299	CA	ARG	D	36	163.998	118.416	38.331	1.00 85.52	DS4
ATOM	36300	CB	ARG	D	36	163.985	117.233	39.291	1.00 83.80	DS4
ATOM	36301	CG	ARG	D	36	165.163	116.314	39.099	1.00 83.80	DS4
ATOM	36302	CD	ARG	D	36	165.029	115.056	39.923	1.00 83.80	DS4
ATOM	36303	NE	ARG	D	36	166.303	114.352	40.014	1.00 83.80	DS4
ATOM	36304	CZ	ARG	D	36	166.440	113.103	40.448	1.00 83.80	DS4
ATOM	36305	NH1	ARG	D	36	165.374	112.410	40.831	1.00 83.80	DS4
ATOM	36306	NH2	ARG	D	36	167.645	112.549	40.509	1.00 83.80	DS4
ATOM	36307	C	ARG	D	36	163.142	118.075	37.100	1.00 85.52	DS4
ATOM	36308	O	ARG	D	36	163.062	116.914	36.703	1.00 85.52	DS4
ATOM	36309	N	PRO	D	37	162.512	119.089	36.469	1.00 76.47	DS4
ATOM	36310	CD	PRO	D	37	162.650	120.523	36.765	1.00 87.61	DS4
ATOM	36311	CA	PRO	D	37	161.656	118.917	35.290	1.00 76.47	DS4
ATOM	36312	CB	PRO	D	37	161.185	120.339	34.984	1.00 87.61	DS4
ATOM	36313	CG	PRO	D	37	161.341	121.054	36.285	1.00 87.61	DS4
ATOM	36314	C	PRO	D	37	162.341	118.301	34.080	1.00 76.47	DS4
ATOM	36315	O	PRO	D	37	161.744	118.209	33.005	1.00 76.47	DS4
ATOM	36316	N	TYR	D	38	163.597	117.907	34.234	1.00 77.79	DS4
ATOM	36317	CA	TYR	D	38	164.289	117.292	33.119	1.00 77.79	DS4
ATOM	36318	CB	TYR	D	38	165.800	117.549	33.194	1.00 73.49	DS4
ATOM	36319	CG	TYR	D	38	166.433	117.263	34.534	1.00 73.49	DS4
ATOM	36320	CD1	TYR	D	38	166.636	115.960	34.972	1.00 73.49	DS4
ATOM	36321	CE1	TYR	D	38	167.227	115.703	36.202	1.00 73.49	DS4
ATOM	36322	CE2	TYR	D	38	166.835	118.303	35.362	1.00 73.49	DS4
ATOM	36323	CE2	TYR	D	38	167.421	118.059	36.588	1.00 73.49	DS4
ATOM	36324	CZ	TYR	D	38	167.615	116.760	37.005	1.00 73.49	DS4
ATOM	36325	OH	TYR	D	38	168.188	116.524	38.232	1.00 73.49	DS4
ATOM	36326	C	TYR	D	38	163.992	115.803	33.138	1.00 77.79	DS4
ATOM	36327	O	TYR	D	38	163.499	115.266	34.136	1.00 77.79	DS4
ATOM	36328	N	PRO	D	39	164.266	115.120	32.021	1.00 52.58	DS4
ATOM	36329	CD	PRO	D	39	164.719	115.691	30.741	1.00 81.73	DS4
ATOM	36330	CA	PRO	D	39	164.028	113.680	31.902	1.00 52.58	DS4
ATOM	36331	CB	PRO	D	39	164.237	113.421	30.413	1.00 81.73	DS4
ATOM	36332	CG	PRO	D	39	165.237	114.476	30.029	1.00 81.73	DS4
ATOM	36333	C	PRO	D	39	164.916	112.805	32.779	1.00 52.58	DS4



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ATOM	36334	O	PRO	D	39	166.007	113.198	33.197	1.00	52.58	DS4
ATOM	36335	N	PRO	D	40	164.444	111.594	33.069	1.00	57.48	DS4
ATOM	36336	CD	PRO	D	40	163.179	111.022	32.573	1.00	59.76	DS4
ATOM	36337	CA	PRO	D	40	165.165	110.633	33.898	1.00	57.48	DS4
ATOM	36338	CB	PRO	D	40	164.153	109.502	34.055	1.00	59.76	DS4
ATOM	36339	CG	PRO	D	40	163.395	109.549	32.765	1.00	59.76	DS4
ATOM	36340	C	PRO	D	40	166.446	110.185	33.215	1.00	57.48	DS4
ATOM	36341	O	PRO	D	40	166.842	110.773	32.214	1.00	57.48	DS4
ATOM	36342	N	GLY	D	41	167.095	109.159	33.763	1.00	85.65	DS4
ATOM	36343	CA	GLY	D	41	168.314	108.635	33.168	1.00	85.65	DS4
ATOM	36344	C	GLY	D	41	169.600	109.431	33.334	1.00	85.65	DS4
ATOM	36345	O	GLY	D	41	169.604	110.554	33.837	1.00	85.65	DS4
ATOM	36346	N	GLN	D	42	170.695	108.826	32.880	1.00	72.36	DS4
ATOM	36347	CA	GLN	D	42	172.042	109.394	32.948	1.00	72.36	DS4
ATOM	36348	CB	GLN	D	42	173.046	108.305	32.524	1.00	84.37	DS4
ATOM	36349	CG	GLN	D	42	174.458	108.768	32.159	1.00	84.37	DS4
ATOM	36350	CD	GLN	D	42	175.410	107.593	31.897	1.00	84.37	DS4
ATOM	36351	OE1	GLN	D	42	176.440	107.753	31.241	1.00	84.37	DS4
ATOM	36352	NE2	GLN	D	42	175.072	106.414	32.422	1.00	84.37	DS4
ATOM	36353	C	GLN	D	42	172.284	110.675	32.142	1.00	72.36	DS4
ATOM	36354	O	GLN	D	42	173.307	111.335	32.313	1.00	72.36	DS4
ATOM	36355	N	HIS	D	43	171.341	111.045	31.286	1.00	72.47	DS4
ATOM	36356	CA	HIS	D	43	171.523	112.231	30.455	1.00	72.47	DS4
ATOM	36357	CB	HIS	D	43	171.539	111.817	28.987	1.00	74.43	DS4
ATOM	36358	CG	HIS	D	43	172.506	110.717	28.681	1.00	74.43	DS4
ATOM	36359	CD2	HIS	D	43	172.311	109.394	28.464	1.00	74.43	DS4
ATOM	36360	ND1	HIS	D	43	173.864	110.926	28.579	1.00	74.43	DS4
ATOM	36361	CE1	HIS	D	43	174.464	109.780	28.310	1.00	74.43	DS4
ATOM	36362	NE2	HIS	D	43	173.544	108.835	28.235	1.00	74.43	DS4
ATOM	36363	C	HIS	D	43	170.458	113.289	30.650	1.00	72.47	DS4
ATOM	36364	O	HIS	D	43	170.383	114.246	29.882	1.00	72.47	DS4
ATOM	36365	N	GLY	D	44	169.631	113.113	31.671	1.00	87.87	DS4
ATOM	36366	CA	GLY	D	44	168.568	114.065	31.925	1.00	87.87	DS4
ATOM	36367	C	GLY	D	44	168.964	115.522	31.764	1.00	87.87	DS4
ATOM	36368	O	GLY	D	44	168.220	116.318	31.175	1.00	87.87	DS4
ATOM	36369	N	GLN	D	45	170.148	115.867	32.265	1.00	81.16	DS4
ATOM	36370	CA	GLN	D	45	170.629	117.240	32.220	1.00	81.16	DS4
ATOM	36371	CB	GLN	D	45	171.259	117.594	33.561	1.00	106.38	DS4
ATOM	36372	CG	GLN	D	45	170.309	117.433	34.724	1.00	106.38	DS4
ATOM	36373	CD	GLN	D	45	171.031	117.390	36.047	1.00	106.38	DS4
ATOM	36374	OE1	GLN	D	45	171.770	118.314	36.394	1.00	106.38	DS4
ATOM	36375	NE2	GLN	D	45	170.825	116.312	36.798	1.00	106.38	DS4
ATOM	36376	C	GLN	D	45	171.605	117.569	31.103	1.00	81.16	DS4
ATOM	36377	O	GLN	D	45	172.624	118.218	31.329	1.00	81.16	DS4
ATOM	36378	N	LYS	D	46	171.308	117.111	29.897	1.00	86.48	DS4
ATOM	36379	CA	LYS	D	46	172.161	117.418	28.760	1.00	86.48	DS4
ATOM	36380	CB	LYS	D	46	172.693	116.148	28.097	1.00	94.96	DS4
ATOM	36381	CG	LYS	D	46	173.929	115.568	28.755	1.00	94.96	DS4
ATOM	36382	CD	LYS	D	46	174.434	114.345	28.003	1.00	94.96	DS4
ATOM	36383	CE	LYS	D	46	175.723	113.825	28.611	1.00	94.96	DS4
ATOM	36384	NZ	LYS	D	46	176.168	112.561	27.971	1.00	94.96	DS4
ATOM	36385	C	LYS	D	46	171.278	118.166	27.791	1.00	86.48	DS4
ATOM	36386	O	LYS	D	46	170.049	118.092	27.890	1.00	86.48	DS4
ATOM	36387	N	ARG	D	47	171.895	118.892	26.865	1.00	93.10	DS4
ATOM	36388	CA	ARG	D	47	171.145	119.654	25.876	1.00	93.10	DS4
ATOM	36389	CB	ARG	D	47	172.107	120.425	24.974	1.00	141.89	DS4
ATOM	36390	CG	ARG	D	47	171.449	121.073	23.775	1.00	141.89	DS4
ATOM	36391	CD	ARG	D	47	172.497	121.399	22.736	1.00	141.89	DS4
ATOM	36392	NE	ARG	D	47	171.939	121.469	21.392	1.00	141.89	DS4
ATOM	36393	CZ	ARG	D	47	172.648	121.265	20.287	1.00	141.89	DS4
ATOM	36394	NH1	ARG	D	47	173.943	120.977	20.367	1.00	141.89	DS4
ATOM	36395	NH2	ARG	D	47	172.059	121.339	19.102	1.00	141.89	DS4
ATOM	36396	C	ARG	D	47	170.304	118.698	25.038	1.00	93.10	DS4
ATOM	36397	O	ARG	D	47	170.692	117.548	24.826	1.00	93.10	DS4
ATOM	36398	N	ALA	D	48	169.148	119.164	24.577	1.00	87.64	DS4
ATOM	36399	CA	ALA	D	48	168.279	118.331	23.752	1.00	87.64	DS4
ATOM	36400	CB	ALA	D	48	166.852	118.389	24.270	1.00	128.48	DS4
ATOM	36401	C	ALA	D	48	168.336	118.842	22.320	1.00	87.64	DS4
ATOM	36402	O	ALA	D	48	168.122	120.030	22.079	1.00	87.64	DS4
ATOM	36403	N	ARG	D	49	168.643	117.958	21.372	1.00	60.33	DS4
ATOM	36404	CA	ARG	D	49	168.710	118.360	19.970	1.00	60.33	DS4
ATOM	36405	CB	ARG	D	49	169.479	117.327	19.149	1.00	178.60	DS4
ATOM	36406	CG	ARG	D	49	170.933	117.176	19.524	1.00	178.60	DS4
ATOM	36407	CD	ARG	D	49	171.600	116.204	18.577	1.00	178.60	DS4
ATOM	36408	NE	ARG	D	49	173.019	116.027	18.862	1.00	178.60	DS4
ATOM	36409	CZ	ARG	D	49	173.838	115.286	18.120	1.00	178.60	DS4
ATOM	36410	NH1	ARG	D	49	173.372	114.655	17.049	1.00	178.60	DS4



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ATOM	36411	NH2	ARG	D	49	175.121	115.175	18.445	1.00178.60	DS4
ATOM	36412	C	ARG	D	49	167.293	118.488	19.419	1.00 60.33	DS4
ATOM	36413	O	ARG	D	49	166.362	117.836	19.907	1.00 60.33	DS4
ATOM	36414	N	ARG	D	50	167.135	119.332	18.406	1.00 88.21	DS4
ATOM	36415	CA	ARG	D	50	165.836	119.551	17.782	1.00 88.21	DS4
ATOM	36416	CB	ARG	D	50	166.021	120.388	16.512	1.00135.93	DS4
ATOM	36417	CG	ARG	D	50	164.732	120.771	15.829	1.00135.93	DS4
ATOM	36418	CD	ARG	D	50	164.278	119.693	14.868	1.00135.93	DS4
ATOM	36419	NE	ARG	D	50	165.103	119.659	13.665	1.00135.93	DS4
ATOM	36420	CZ	ARG	D	50	164.877	118.856	12.632	1.00135.93	DS4
ATOM	36421	NH1	ARG	D	50	163.851	118.015	12.661	1.00135.93	DS4
ATOM	36422	NH2	ARG	D	50	165.668	118.904	11.567	1.00135.93	DS4
ATOM	36423	C	ARG	D	50	165.188	118.204	17.461	1.00 88.21	DS4
ATOM	36424	O	ARG	D	50	165.664	117.469	16.605	1.00 88.21	DS4
ATOM	36425	N	PRO	D	51	164.086	117.866	18.143	1.00 54.79	DS4
ATOM	36426	CD	PRO	D	51	163.363	118.668	19.137	1.00 60.58	DS4
ATOM	36427	CA	PRO	D	51	163.396	116.593	17.917	1.00 54.79	DS4
ATOM	36428	CB	PRO	D	51	162.239	116.633	18.916	1.00 60.58	DS4
ATOM	36429	CG	PRO	D	51	162.704	117.589	19.956	1.00 60.58	DS4
ATOM	36430	C	PRO	D	51	162.895	116.434	16.494	1.00 54.79	DS4
ATOM	36431	O	PRO	D	51	162.667	117.422	15.794	1.00 54.79	DS4
ATOM	36432	N	SER	D	52	162.714	115.183	16.080	1.00 48.57	DS4
ATOM	36433	CA	SER	D	52	162.226	114.888	14.744	1.00 48.57	DS4
ATOM	36434	CB	SER	D	52	162.600	113.467	14.335	1.00 68.95	DS4
ATOM	36435	OG	SER	D	52	161.782	112.517	14.992	1.00 68.95	DS4
ATOM	36436	C	SER	D	52	160.714	115.016	14.735	1.00 48.57	DS4
ATOM	36437	O	SER	D	52	160.059	114.893	15.778	1.00 48.57	DS4
ATOM	36438	N	ASP	D	53	160.162	115.260	13.553	1.00 70.64	DS4
ATOM	36439	CA	ASP	D	53	158.724	115.384	13.420	1.00 70.64	DS4
ATOM	36440	CB	ASP	D	53	158.339	115.595	11.958	1.00 93.01	DS4
ATOM	36441	CG	ASP	D	53	158.843	116.909	11.419	1.00 93.01	DS4
ATOM	36442	OD1	ASP	D	53	160.061	117.153	11.536	1.00 93.01	DS4
ATOM	36443	OD2	ASP	D	53	158.028	117.696	10.885	1.00 93.01	DS4
ATOM	36444	C	ASP	D	53	158.098	114.107	13.958	1.00 70.64	DS4
ATOM	36445	O	ASP	D	53	156.913	114.068	14.269	1.00 70.64	DS4
ATOM	36446	N	TYR	D	54	158.895	113.052	14.062	1.00 51.62	DS4
ATOM	36447	CA	TYR	D	54	158.367	111.821	14.607	1.00 51.62	DS4
ATOM	36448	CB	TYR	D	54	159.271	110.627	14.294	1.00 46.46	DS4
ATOM	36449	CG	TYR	D	54	158.703	109.335	14.860	1.00 46.46	DS4
ATOM	36450	CD1	TYR	D	54	157.441	108.880	14.462	1.00 46.46	DS4
ATOM	36451	CE1	TYR	D	54	156.875	107.723	15.014	1.00 46.46	DS4
ATOM	36452	CD2	TYR	D	54	159.395	108.594	15.833	1.00 46.46	DS4
ATOM	36453	CE2	TYR	D	54	158.836	107.433	16.396	1.00 46.46	DS4
ATOM	36454	CZ	TYR	D	54	157.570	107.002	15.979	1.00 46.46	DS4
ATOM	36455	OH	TYR	D	54	156.989	105.858	16.507	1.00 46.46	DS4
ATOM	36456	C	TYR	D	54	158.332	112.038	16.112	1.00 51.62	DS4
ATOM	36457	O	TYR	D	54	157.282	111.940	16.760	1.00 51.62	DS4
ATOM	36458	N	ALA	D	55	159.506	112.342	16.652	1.00 57.68	DS4
ATOM	36459	CA	ALA	D	55	159.682	112.590	18.072	1.00 57.68	DS4
ATOM	36460	CB	ALA	D	55	160.938	113.408	18.289	1.00 63.29	DS4
ATOM	36461	C	ALA	D	55	158.481	113.338	18.610	1.00 57.68	DS4
ATOM	36462	O	ALA	D	55	157.849	112.927	19.585	1.00 57.68	DS4
ATOM	36463	N	VAL	D	56	158.167	114.441	17.954	1.00 49.09	DS4
ATOM	36464	CA	VAL	D	56	157.048	115.250	18.369	1.00 49.09	DS4
ATOM	36465	CB	VAL	D	56	156.849	116.414	17.415	1.00 49.27	DS4
ATOM	36466	CG1	VAL	D	56	155.679	117.251	17.862	1.00 49.27	DS4
ATOM	36467	CG2	VAL	D	56	158.106	117.243	17.367	1.00 49.27	DS4
ATOM	36468	C	VAL	D	56	155.755	114.451	18.447	1.00 49.09	DS4
ATOM	36469	O	VAL	D	56	155.205	114.253	19.534	1.00 49.09	DS4
ATOM	36470	N	ARG	D	57	155.259	113.999	17.299	1.00 57.29	DS4
ATOM	36471	CA	ARG	D	57	154.019	113.236	17.293	1.00 57.29	DS4
ATOM	36472	CB	ARG	D	57	153.731	112.659	15.905	1.00 65.45	DS4
ATOM	36473	CG	ARG	D	57	153.016	113.607	14.948	1.00 65.45	DS4
ATOM	36474	CD	ARG	D	57	153.894	114.777	14.599	1.00 65.45	DS4
ATOM	36475	NE	ARG	D	57	153.313	115.612	13.560	1.00 65.45	DS4
ATOM	36476	CZ	ARG	D	57	153.809	116.795	13.207	1.00 65.45	DS4
ATOM	36477	NH1	ARG	D	57	154.898	117.277	13.812	1.00 65.45	DS4
ATOM	36478	NH2	ARG	D	57	153.208	117.505	12.259	1.00 65.45	DS4
ATOM	36479	C	ARG	D	57	154.078	112.109	18.307	1.00 57.29	DS4
ATOM	36480	O	ARG	D	57	153.118	111.865	19.038	1.00 57.29	DS4
ATOM	36481	N	LEU	D	58	155.210	111.425	18.363	1.00 49.82	DS4
ATOM	36482	CA	LEU	D	58	155.342	110.331	19.307	1.00 49.82	DS4
ATOM	36483	CB	LEU	D	58	156.726	109.687	19.173	1.00 52.57	DS4
ATOM	36484	CG	LEU	D	58	156.961	108.406	19.982	1.00 52.57	DS4
ATOM	36485	CD1	LEU	D	58	157.359	108.727	21.410	1.00 52.57	DS4
ATOM	36486	CD2	LEU	D	58	155.696	107.571	19.937	1.00 52.57	DS4
ATOM	36487	C	LEU	D	58	155.128	110.844	20.736	1.00 49.82	DS4



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ATOM	36488	O	LEU	D	58	154.074	110.621	21.348	1.00	49.82	DS4
ATOM	36489	N	ARG	D	59	156.139	111.540	21.248	1.00	66.18	DS4
ATOM	36490	CA	ARG	D	59	156.108	112.106	22.587	1.00	66.18	DS4
ATOM	36491	CB	ARG	D	59	157.206	113.162	22.714	1.00	60.36	DS4
ATOM	36492	CG	ARG	D	59	158.614	112.582	22.820	1.00	60.36	DS4
ATOM	36493	CD	ARG	D	59	159.042	112.346	24.287	1.00	60.36	DS4
ATOM	36494	NE	ARG	D	59	158.190	111.391	24.992	1.00	60.36	DS4
ATOM	36495	CZ	ARG	D	59	158.348	110.072	24.950	1.00	60.36	DS4
ATOM	36496	NH1	ARG	D	59	159.342	109.541	24.240	1.00	60.36	DS4
ATOM	36497	NH2	ARG	D	59	157.491	109.287	25.600	1.00	60.36	DS4
ATOM	36498	C	ARG	D	59	154.755	112.715	22.946	1.00	66.18	DS4
ATOM	36499	O	ARG	D	59	154.325	112.657	24.102	1.00	66.18	DS4
ATOM	36500	N	GLU	D	60	154.078	113.299	21.962	1.00	57.46	DS4
ATOM	36501	CA	GLU	D	60	152.790	113.901	22.238	1.00	57.46	DS4
ATOM	36502	CB	GLU	D	60	152.259	114.626	21.009	1.00	59.92	DS4
ATOM	36503	CG	GLU	D	60	151.038	115.480	21.321	1.00	59.92	DS4
ATOM	36504	CD	GLU	D	60	151.353	116.590	22.315	1.00	59.92	DS4
ATOM	36505	OE1	GLU	D	60	152.485	116.605	22.857	1.00	59.92	DS4
ATOM	36506	OE2	GLU	D	60	150.469	117.445	22.554	1.00	59.92	DS4
ATOM	36507	C	GLU	D	60	151.800	112.826	22.672	1.00	57.46	DS4
ATOM	36508	O	GLU	D	60	151.283	112.848	23.791	1.00	57.46	DS4
ATOM	36509	N	LYS	D	61	151.538	111.880	21.782	1.00	64.45	DS4
ATOM	36510	CA	LYS	D	61	150.619	110.797	22.086	1.00	64.45	DS4
ATOM	36511	CB	LYS	D	61	150.652	109.759	20.975	1.00	60.62	DS4
ATOM	36512	CG	LYS	D	61	149.748	108.583	21.220	1.00	60.62	DS4
ATOM	36513	CD	LYS	D	61	150.151	107.457	20.321	1.00	60.62	DS4
ATOM	36514	CE	LYS	D	61	151.518	106.903	20.706	1.00	60.62	DS4
ATOM	36515	NZ	LYS	D	61	151.498	106.213	22.034	1.00	60.62	DS4
ATOM	36516	C	LYS	D	61	150.992	110.133	23.404	1.00	64.45	DS4
ATOM	36517	O	LYS	D	61	150.129	109.914	24.243	1.00	64.45	DS4
ATOM	36518	N	GLN	D	62	152.276	109.809	23.573	1.00	70.38	DS4
ATOM	36519	CA	GLN	D	62	152.781	109.165	24.794	1.00	70.38	DS4
ATOM	36520	CB	GLN	D	62	154.314	109.127	24.795	1.00	67.03	DS4
ATOM	36521	CG	GLN	D	62	154.914	108.048	23.918	1.00	67.03	DS4
ATOM	36522	CD	GLN	D	62	154.389	106.674	24.270	1.00	67.03	DS4
ATOM	36523	OE1	GLN	D	62	154.413	106.271	25.429	1.00	67.03	DS4
ATOM	36524	NE2	GLN	D	62	153.913	105.946	23.272	1.00	67.03	DS4
ATOM	36525	C	GLN	D	62	152.307	109.891	26.047	1.00	70.38	DS4
ATOM	36526	O	GLN	D	62	152.167	109.298	27.117	1.00	70.38	DS4
ATOM	36527	N	LYS	D	63	152.080	111.189	25.906	1.00	71.55	DS4
ATOM	36528	CA	LYS	D	63	151.596	111.995	27.011	1.00	71.55	DS4
ATOM	36529	CB	LYS	D	63	151.778	113.470	26.667	1.00	62.62	DS4
ATOM	36530	CG	LYS	D	63	151.509	114.418	27.801	1.00	62.62	DS4
ATOM	36531	CD	LYS	D	63	151.565	115.847	27.310	1.00	62.62	DS4
ATOM	36532	CE	LYS	D	63	152.877	116.132	26.611	1.00	62.62	DS4
ATOM	36533	NZ	LYS	D	63	152.853	117.473	25.972	1.00	62.62	DS4
ATOM	36534	C	LYS	D	63	150.109	111.659	27.197	1.00	71.55	DS4
ATOM	36535	O	LYS	D	63	149.730	110.956	28.139	1.00	71.55	DS4
ATOM	36536	N	LEU	D	64	149.284	112.141	26.266	1.00	41.26	DS4
ATOM	36537	CA	LEU	D	64	147.842	111.917	26.283	1.00	41.26	DS4
ATOM	36538	CB	LEU	D	64	147.228	112.261	24.922	1.00	28.00	DS4
ATOM	36539	CG	LEU	D	64	145.703	112.397	24.740	1.00	28.00	DS4
ATOM	36540	CD1	LEU	D	64	145.154	111.206	23.996	1.00	28.00	DS4
ATOM	36541	CD2	LEU	D	64	145.017	112.567	26.085	1.00	28.00	DS4
ATOM	36542	C	LEU	D	64	147.498	110.491	26.640	1.00	41.26	DS4
ATOM	36543	O	LEU	D	64	146.409	110.232	27.131	1.00	41.26	DS4
ATOM	36544	N	ARG	D	65	148.406	109.554	26.394	1.00	62.82	DS4
ATOM	36545	CA	ARG	D	65	148.108	108.175	26.739	1.00	62.82	DS4
ATOM	36546	CB	ARG	D	65	148.881	107.185	25.867	1.00	70.21	DS4
ATOM	36547	CG	ARG	D	65	148.490	105.745	26.177	1.00	70.21	DS4
ATOM	36548	CD	ARG	D	65	149.118	104.733	25.241	1.00	70.21	DS4
ATOM	36549	NE	ARG	D	65	150.034	103.826	25.932	1.00	70.21	DS4
ATOM	36550	CZ	ARG	D	65	151.328	103.721	25.642	1.00	70.21	DS4
ATOM	36551	NH1	ARG	D	65	151.848	104.469	24.676	1.00	70.21	DS4
ATOM	36552	NH2	ARG	D	65	152.104	102.869	26.304	1.00	70.21	DS4
ATOM	36553	C	ARG	D	65	148.430	107.924	28.202	1.00	62.82	DS4
ATOM	36554	O	ARG	D	65	147.583	107.464	28.958	1.00	62.82	DS4
ATOM	36555	N	ARG	D	66	149.651	108.234	28.607	1.00	49.79	DS4
ATOM	36556	CA	ARG	D	66	150.035	108.027	29.992	1.00	49.79	DS4
ATOM	36557	CB	ARG	D	66	151.484	108.430	30.185	1.00	63.21	DS4
ATOM	36558	CG	ARG	D	66	152.425	107.417	29.594	1.00	63.21	DS4
ATOM	36559	CD	ARG	D	66	153.800	107.993	29.365	1.00	63.21	DS4
ATOM	36560	NE	ARG	D	66	154.758	106.929	29.092	1.00	63.21	DS4
ATOM	36561	CZ	ARG	D	66	156.005	107.128	28.685	1.00	63.21	DS4
ATOM	36562	NH1	ARG	D	66	156.461	108.362	28.490	1.00	63.21	DS4
ATOM	36563	NH2	ARG	D	66	156.802	106.088	28.492	1.00	63.21	DS4
ATOM	36564	C	ARG	D	66	149.137	108.813	30.928	1.00	49.79	DS4



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ATOM	36565	O	ARG	D	66	149.040	108.510	32.115	1.00	49.79	DS4
ATOM	36566	N	ILE	D	67	148.466	109.822	30.397	1.00	55.79	DS4
ATOM	36567	CA	ILE	D	67	147.587	110.599	31.237	1.00	55.79	DS4
ATOM	36568	CB	ILE	D	67	146.966	111.756	30.458	1.00	70.38	DS4
ATOM	36569	CG2	ILE	D	67	145.480	111.892	30.781	1.00	70.38	DS4
ATOM	36570	CG1	ILE	D	67	147.739	113.033	30.791	1.00	70.38	DS4
ATOM	36571	CD1	ILE	D	67	147.255	114.254	30.047	1.00	70.38	DS4
ATOM	36572	C	ILE	D	67	146.503	109.707	31.827	1.00	55.79	DS4
ATOM	36573	O	ILE	D	67	146.145	109.843	33.003	1.00	55.79	DS4
ATOM	36574	N	TYR	D	68	145.985	108.790	31.016	1.00	56.58	DS4
ATOM	36575	CA	TYR	D	68	144.954	107.874	31.489	1.00	56.58	DS4
ATOM	36576	CB	TYR	D	68	143.811	107.770	30.487	1.00	54.72	DS4
ATOM	36577	CG	TYR	D	68	143.192	109.078	30.106	1.00	54.72	DS4
ATOM	36578	CD1	TYR	D	68	143.504	109.687	28.894	1.00	54.72	DS4
ATOM	36579	CE1	TYR	D	68	142.912	110.886	28.519	1.00	54.72	DS4
ATOM	36580	CD2	TYR	D	68	142.274	109.701	30.944	1.00	54.72	DS4
ATOM	36581	CE2	TYR	D	68	141.673	110.904	30.583	1.00	54.72	DS4
ATOM	36582	CZ	TYR	D	68	141.996	111.491	29.368	1.00	54.72	DS4
ATOM	36583	OH	TYR	D	68	141.401	112.677	29.005	1.00	54.72	DS4
ATOM	36584	C	TYR	D	68	145.504	106.474	31.727	1.00	56.58	DS4
ATOM	36585	O	TYR	D	68	144.742	105.508	31.730	1.00	56.58	DS4
ATOM	36586	N	GLY	D	69	146.817	106.368	31.921	1.00	69.92	DS4
ATOM	36587	CA	GLY	D	69	147.430	105.068	32.146	1.00	69.92	DS4
ATOM	36588	C	GLY	D	69	146.685	103.960	31.423	1.00	69.92	DS4
ATOM	36589	O	GLY	D	69	145.929	103.209	32.033	1.00	69.92	DS4
ATOM	36590	N	ILE	D	70	146.898	103.852	30.118	1.00	77.96	DS4
ATOM	36591	CA	ILE	D	70	146.209	102.849	29.330	1.00	77.96	DS4
ATOM	36592	CB	ILE	D	70	144.940	103.483	28.722	1.00	61.71	DS4
ATOM	36593	CG2	ILE	D	70	144.963	103.435	27.195	1.00	61.71	DS4
ATOM	36594	CG1	ILE	D	70	143.719	102.778	29.288	1.00	61.71	DS4
ATOM	36595	CD1	ILE	D	70	142.444	103.355	28.787	1.00	61.71	DS4
ATOM	36596	C	ILE	D	70	147.074	102.191	28.247	1.00	77.96	DS4
ATOM	36597	O	ILE	D	70	147.760	102.861	27.469	1.00	77.96	DS4
ATOM	36598	N	SER	D	71	147.034	100.863	28.214	1.00	67.35	DS4
ATOM	36599	CA	SER	D	71	147.795	100.073	27.250	1.00	67.35	DS4
ATOM	36600	CB	SER	D	71	147.280	98.638	27.254	1.00	106.76	DS4
ATOM	36601	OG	SER	D	71	145.904	98.605	26.906	1.00	106.76	DS4
ATOM	36602	C	SER	D	71	147.663	100.634	25.844	1.00	67.35	DS4
ATOM	36603	O	SER	D	71	146.549	100.895	25.388	1.00	67.35	DS4
ATOM	36604	N	GLU	D	72	148.786	100.809	25.149	1.00	80.43	DS4
ATOM	36605	CA	GLU	D	72	148.739	101.331	23.779	1.00	80.43	DS4
ATOM	36606	CB	GLU	D	72	150.093	101.177	23.077	1.00	72.31	DS4
ATOM	36607	CG	GLU	D	72	150.040	101.506	21.581	1.00	72.31	DS4
ATOM	36608	CD	GLU	D	72	149.966	103.001	21.277	1.00	72.31	DS4
ATOM	36609	OE1	GLU	D	72	149.574	103.361	20.144	1.00	72.31	DS4
ATOM	36610	OE2	GLU	D	72	150.315	103.815	22.159	1.00	72.31	DS4
ATOM	36611	C	GLU	D	72	147.679	100.573	22.986	1.00	80.43	DS4
ATOM	36612	O	GLU	D	72	147.050	101.122	22.080	1.00	80.43	DS4
ATOM	36613	N	ARG	D	73	147.495	99.305	23.333	1.00	61.53	DS4
ATOM	36614	CA	ARG	D	73	146.510	98.485	22.667	1.00	61.53	DS4
ATOM	36615	CB	ARG	D	73	146.416	97.129	23.351	1.00	132.63	DS4
ATOM	36616	CG	ARG	D	73	145.681	96.089	22.548	1.00	132.63	DS4
ATOM	36617	CD	ARG	D	73	146.344	95.890	21.204	1.00	132.63	DS4
ATOM	36618	NE	ARG	D	73	145.995	94.599	20.623	1.00	132.63	DS4
ATOM	36619	CZ	ARG	D	73	146.311	94.226	19.388	1.00	132.63	DS4
ATOM	36620	NH1	ARG	D	73	146.984	95.052	18.597	1.00	132.63	DS4
ATOM	36621	NH2	ARG	D	73	145.958	93.026	18.945	1.00	132.63	DS4
ATOM	36622	C	ARG	D	73	145.183	99.221	22.770	1.00	61.53	DS4
ATOM	36623	O	ARG	D	73	144.742	99.848	21.812	1.00	61.53	DS4
ATOM	36624	N	GLN	D	74	144.562	99.172	23.944	1.00	55.41	DS4
ATOM	36625	CA	GLN	D	74	143.277	99.832	24.157	1.00	55.41	DS4
ATOM	36626	CB	GLN	D	74	142.957	99.913	25.649	1.00	60.55	DS4
ATOM	36627	CG	GLN	D	74	142.728	98.577	26.326	1.00	60.55	DS4
ATOM	36628	CD	GLN	D	74	141.972	98.727	27.633	1.00	60.55	DS4
ATOM	36629	OE1	GLN	D	74	142.246	99.639	28.425	1.00	60.55	DS4
ATOM	36630	NE2	GLN	D	74	141.023	97.828	27.875	1.00	60.55	DS4
ATOM	36631	C	GLN	D	74	143.252	101.236	23.576	1.00	55.41	DS4
ATOM	36632	O	GLN	D	74	142.318	101.608	22.866	1.00	55.41	DS4
ATOM	36633	N	PHE	D	75	144.287	102.009	23.894	1.00	66.87	DS4
ATOM	36634	CA	PHE	D	75	144.416	103.388	23.432	1.00	66.87	DS4
ATOM	36635	CB	PHE	D	75	145.822	103.910	23.740	1.00	60.50	DS4
ATOM	36636	CG	PHE	D	75	145.969	105.390	23.559	1.00	60.50	DS4
ATOM	36637	CD1	PHE	D	75	145.636	106.264	24.582	1.00	60.50	DS4
ATOM	36638	CD2	PHE	D	75	146.428	105.915	22.360	1.00	60.50	DS4
ATOM	36639	CE1	PHE	D	75	145.759	107.637	24.414	1.00	60.50	DS4
ATOM	36640	CE2	PHE	D	75	146.554	107.290	22.187	1.00	60.50	DS4
ATOM	36641	CZ	PHE	D	75	146.218	108.148	23.219	1.00	60.50	DS4



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ATOM	36642	C	PHE	D	75	144.143	103.514	21.934	1.00	66.87	DS4
ATOM	36643	O	PHE	D	75	143.308	104.311	21.509	1.00	66.87	DS4
ATOM	36644	N	ARG	D	76	144.851	102.709	21.147	1.00	45.63	DS4
ATOM	36645	CA	ARG	D	76	144.722	102.705	19.690	1.00	45.63	DS4
ATOM	36646	CB	ARG	D	76	145.621	101.621	19.100	1.00	91.54	DS4
ATOM	36647	CG	ARG	D	76	145.818	101.760	17.619	1.00	91.54	DS4
ATOM	36648	CD	ARG	D	76	146.601	103.021	17.329	1.00	91.54	DS4
ATOM	36649	NE	ARG	D	76	146.509	103.417	15.929	1.00	91.54	DS4
ATOM	36650	CZ	ARG	D	76	146.937	102.684	14.907	1.00	91.54	DS4
ATOM	36651	NH1	ARG	D	76	147.499	101.497	15.123	1.00	91.54	DS4
ATOM	36652	NH2	ARG	D	76	146.799	103.142	13.668	1.00	91.54	DS4
ATOM	36653	C	ARG	D	76	143.285	102.461	19.245	1.00	45.63	DS4
ATOM	36654	O	ARG	D	76	142.662	103.296	18.583	1.00	45.63	DS4
ATOM	36655	N	ASN	D	77	142.776	101.296	19.617	1.00	52.78	DS4
ATOM	36656	CA	ASN	D	77	141.422	100.902	19.278	1.00	52.78	DS4
ATOM	36657	CB	ASN	D	77	141.070	99.620	20.024	1.00	94.65	DS4
ATOM	36658	CG	ASN	D	77	142.152	98.570	19.902	1.00	94.65	DS4
ATOM	36659	OD1	ASN	D	77	142.547	98.194	18.794	1.00	94.65	DS4
ATOM	36660	ND2	ASN	D	77	142.646	98.092	21.041	1.00	94.65	DS4
ATOM	36661	C	ASN	D	77	140.446	102.007	19.652	1.00	52.78	DS4
ATOM	36662	O	ASN	D	77	139.512	102.317	18.905	1.00	52.78	DS4
ATOM	36663	N	LEU	D	78	140.663	102.603	20.818	1.00	49.21	DS4
ATOM	36664	CA	LEU	D	78	139.797	103.667	21.264	1.00	49.21	DS4
ATOM	36665	CB	LEU	D	78	140.214	104.155	22.629	1.00	42.46	DS4
ATOM	36666	CG	LEU	D	78	139.017	104.388	23.550	1.00	42.46	DS4
ATOM	36667	CD1	LEU	D	78	139.376	105.492	24.567	1.00	42.46	DS4
ATOM	36668	CD2	LEU	D	78	137.786	104.787	22.727	1.00	42.46	DS4
ATOM	36669	C	LEU	D	78	139.926	104.789	20.267	1.00	49.21	DS4
ATOM	36670	O	LEU	D	78	138.937	105.418	19.897	1.00	49.21	DS4
ATOM	36671	N	PHE	D	79	141.158	105.035	19.828	1.00	47.76	DS4
ATOM	36672	CA	PHE	D	79	141.413	106.076	18.839	1.00	47.76	DS4
ATOM	36673	CB	PHE	D	79	142.907	106.224	18.562	1.00	54.21	DS4
ATOM	36674	CG	PHE	D	79	143.212	107.172	17.442	1.00	54.21	DS4
ATOM	36675	CD1	PHE	D	79	143.266	108.542	17.668	1.00	54.21	DS4
ATOM	36676	CD2	PHE	D	79	143.386	106.697	16.145	1.00	54.21	DS4
ATOM	36677	CE1	PHE	D	79	143.485	109.429	16.614	1.00	54.21	DS4
ATOM	36678	CE2	PHE	D	79	143.604	107.567	15.091	1.00	54.21	DS4
ATOM	36679	CZ	PHE	D	79	143.653	108.938	15.321	1.00	54.21	DS4
ATOM	36680	C	PHE	D	79	140.725	105.680	17.546	1.00	47.76	DS4
ATOM	36681	O	PHE	D	79	139.876	106.400	17.027	1.00	47.76	DS4
ATOM	36682	N	GLU	D	80	141.102	104.520	17.027	1.00	48.95	DS4
ATOM	36683	CA	GLU	D	80	140.511	104.036	15.794	1.00	48.95	DS4
ATOM	36684	CB	GLU	D	80	141.017	102.631	15.479	1.00	94.49	DS4
ATOM	36685	CG	GLU	D	80	142.410	102.634	14.883	1.00	94.49	DS4
ATOM	36686	CD	GLU	D	80	142.427	103.183	13.466	1.00	94.49	DS4
ATOM	36687	OE1	GLU	D	80	143.527	103.512	12.967	1.00	94.49	DS4
ATOM	36688	OE2	GLU	D	80	141.340	103.272	12.850	1.00	94.49	DS4
ATOM	36689	C	GLU	D	80	138.993	104.053	15.842	1.00	48.95	DS4
ATOM	36690	O	GLU	D	80	138.352	104.042	14.804	1.00	48.95	DS4
ATOM	36691	N	GLU	D	81	138.408	104.079	17.036	1.00	57.08	DS4
ATOM	36692	CA	GLU	D	81	136.954	104.125	17.129	1.00	57.08	DS4
ATOM	36693	CB	GLU	D	81	136.475	103.675	18.506	1.00	78.42	DS4
ATOM	36694	CG	GLU	D	81	134.959	103.634	18.614	1.00	78.42	DS4
ATOM	36695	CD	GLU	D	81	134.461	103.077	19.944	1.00	78.42	DS4
ATOM	36696	OE1	GLU	D	81	133.222	103.047	20.144	1.00	78.42	DS4
ATOM	36697	OE2	GLU	D	81	135.298	102.669	20.783	1.00	78.42	DS4
ATOM	36698	C	GLU	D	81	136.522	105.563	16.876	1.00	57.08	DS4
ATOM	36699	O	GLU	D	81	135.668	105.838	16.036	1.00	57.08	DS4
ATOM	36700	N	ALA	D	82	137.136	106.483	17.603	1.00	63.46	DS4
ATOM	36701	CA	ALA	D	82	136.824	107.893	17.444	1.00	63.46	DS4
ATOM	36702	CB	ALA	D	82	137.772	108.739	18.309	1.00	27.43	DS4
ATOM	36703	C	ALA	D	82	136.972	108.278	15.975	1.00	63.46	DS4
ATOM	36704	O	ALA	D	82	136.221	109.104	15.446	1.00	63.46	DS4
ATOM	36705	N	SER	D	83	137.945	107.661	15.322	1.00	66.51	DS4
ATOM	36706	CA	SER	D	83	138.227	107.945	13.931	1.00	66.51	DS4
ATOM	36707	CB	SER	D	83	139.398	107.090	13.462	1.00	91.96	DS4
ATOM	36708	OG	SER	D	83	140.421	107.064	14.444	1.00	91.96	DS4
ATOM	36709	C	SER	D	83	137.018	107.662	13.068	1.00	66.51	DS4
ATOM	36710	O	SER	D	83	136.562	108.530	12.325	1.00	66.51	DS4
ATOM	36711	N	LYS	D	84	136.494	106.446	13.181	1.00	53.46	DS4
ATOM	36712	CA	LYS	D	84	135.350	106.026	12.390	1.00	53.46	DS4
ATOM	36713	CB	LYS	D	84	135.122	104.527	12.562	1.00	102.51	DS4
ATOM	36714	CG	LYS	D	84	136.280	103.697	12.052	1.00	102.51	DS4
ATOM	36715	CD	LYS	D	84	136.137	102.234	12.418	1.00	102.51	DS4
ATOM	36716	CE	LYS	D	84	137.354	101.442	11.957	1.00	102.51	DS4
ATOM	36717	NZ	LYS	D	84	137.282	100.003	12.363	1.00	102.51	DS4
ATOM	36718	C	LYS	D	84	134.087	106.782	12.734	1.00	53.46	DS4



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ATOM	36719	O	LYS	D	84	133.231	106.991	11.871	1.00	53.46	DS4
ATOM	36720	N	LYS	D	85	133.968	107.202	13.989	1.00	71.40	DS4
ATOM	36721	CA	LYS	D	85	132.776	107.928	14.415	1.00	71.40	DS4
ATOM	36722	CB	LYS	D	85	132.782	108.196	15.927	1.00	76.80	DS4
ATOM	36723	CG	LYS	D	85	132.789	106.957	16.801	1.00	76.80	DS4
ATOM	36724	CD	LYS	D	85	132.098	107.203	18.136	1.00	76.80	DS4
ATOM	36725	CE	LYS	D	85	130.587	107.234	17.968	1.00	76.80	DS4
ATOM	36726	NZ	LYS	D	85	129.878	107.288	19.280	1.00	76.80	DS4
ATOM	36727	C	LYS	D	85	132.674	109.251	13.694	1.00	71.40	DS4
ATOM	36728	O	LYS	D	85	133.674	109.783	13.209	1.00	71.40	DS4
ATOM	36729	N	LYS	D	86	131.453	109.770	13.626	1.00	69.84	DS4
ATOM	36730	CA	LYS	D	86	131.193	111.056	12.996	1.00	69.84	DS4
ATOM	36731	CB	LYS	D	86	129.691	111.281	12.817	1.00	97.48	DS4
ATOM	36732	CG	LYS	D	86	129.152	110.832	11.481	1.00	97.48	DS4
ATOM	36733	CD	LYS	D	86	127.880	111.581	11.151	1.00	97.48	DS4
ATOM	36734	CE	LYS	D	86	127.495	111.415	9.686	1.00	97.48	DS4
ATOM	36735	NZ	LYS	D	86	126.301	112.247	9.333	1.00	97.48	DS4
ATOM	36736	C	LYS	D	86	131.750	112.159	13.879	1.00	69.84	DS4
ATOM	36737	O	LYS	D	86	131.869	111.991	15.093	1.00	69.84	DS4
ATOM	36738	N	GLY	D	87	132.106	113.286	13.273	1.00	67.68	DS4
ATOM	36739	CA	GLY	D	87	132.614	114.393	14.061	1.00	67.68	DS4
ATOM	36740	C	GLY	D	87	134.102	114.419	14.307	1.00	67.68	DS4
ATOM	36741	O	GLY	D	87	134.784	113.399	14.269	1.00	67.68	DS4
ATOM	36742	N	VAL	D	88	134.590	115.618	14.586	1.00	54.11	DS4
ATOM	36743	CA	VAL	D	88	135.997	115.849	14.829	1.00	54.11	DS4
ATOM	36744	CB	VAL	D	88	136.210	117.177	15.531	1.00	50.61	DS4
ATOM	36745	CG1	VAL	D	88	137.713	117.471	15.633	1.00	50.61	DS4
ATOM	36746	CG2	VAL	D	88	135.466	118.271	14.780	1.00	50.61	DS4
ATOM	36747	C	VAL	D	88	136.681	114.771	15.643	1.00	54.11	DS4
ATOM	36748	O	VAL	D	88	136.507	114.675	16.859	1.00	54.11	DS4
ATOM	36749	N	THR	D	89	137.479	113.966	14.959	1.00	48.93	DS4
ATOM	36750	CA	THR	D	89	138.220	112.896	15.598	1.00	48.93	DS4
ATOM	36751	CB	THR	D	89	139.266	112.398	14.630	1.00	44.74	DS4
ATOM	36752	OG1	THR	D	89	138.598	111.810	13.508	1.00	44.74	DS4
ATOM	36753	CG2	THR	D	89	140.191	111.399	15.299	1.00	44.74	DS4
ATOM	36754	C	THR	D	89	138.887	113.317	16.919	1.00	48.93	DS4
ATOM	36755	O	THR	D	89	138.662	112.710	17.968	1.00	48.93	DS4
ATOM	36756	N	GLY	D	90	139.701	114.364	16.857	1.00	62.90	DS4
ATOM	36757	CA	GLY	D	90	140.383	114.839	18.044	1.00	62.90	DS4
ATOM	36758	C	GLY	D	90	139.516	114.874	19.286	1.00	62.90	DS4
ATOM	36759	O	GLY	D	90	139.849	114.274	20.315	1.00	62.90	DS4
ATOM	36760	N	SER	D	91	138.404	115.591	19.201	1.00	73.72	DS4
ATOM	36761	CA	SER	D	91	137.500	115.680	20.336	1.00	73.72	DS4
ATOM	36762	CB	SER	D	91	136.286	116.538	19.986	1.00	96.55	DS4
ATOM	36763	OG	SER	D	91	136.673	117.869	19.697	1.00	96.55	DS4
ATOM	36764	C	SER	D	91	137.047	114.275	20.700	1.00	73.72	DS4
ATOM	36765	O	SER	D	91	137.504	113.699	21.691	1.00	73.72	DS4
ATOM	36766	N	VAL	D	92	136.155	113.737	19.877	1.00	63.71	DS4
ATOM	36767	CA	VAL	D	92	135.610	112.406	20.062	1.00	63.71	DS4
ATOM	36768	CB	VAL	D	92	135.337	111.751	18.725	1.00	23.07	DS4
ATOM	36769	CG1	VAL	D	92	134.567	110.449	18.927	1.00	23.07	DS4
ATOM	36770	CG2	VAL	D	92	134.575	112.708	17.847	1.00	23.07	DS4
ATOM	36771	C	VAL	D	92	136.539	111.487	20.829	1.00	63.71	DS4
ATOM	36772	O	VAL	D	92	136.100	110.777	21.744	1.00	63.71	DS4
ATOM	36773	N	PHE	D	93	137.816	111.482	20.443	1.00	54.21	DS4
ATOM	36774	CA	PHE	D	93	138.795	110.640	21.115	1.00	54.21	DS4
ATOM	36775	CB	PHE	D	93	140.195	110.870	20.557	1.00	48.57	DS4
ATOM	36776	CG	PHE	D	93	141.192	109.814	20.962	1.00	48.57	DS4
ATOM	36777	CD1	PHE	D	93	142.559	110.035	20.813	1.00	48.57	DS4
ATOM	36778	CD2	PHE	D	93	140.764	108.589	21.471	1.00	48.57	DS4
ATOM	36779	CE1	PHE	D	93	143.492	109.054	21.163	1.00	48.57	DS4
ATOM	36780	CE2	PHE	D	93	141.683	107.599	21.825	1.00	48.57	DS4
ATOM	36781	CZ	PHE	D	93	143.058	107.835	21.670	1.00	48.57	DS4
ATOM	36782	C	PHE	D	93	138.779	111.002	22.588	1.00	54.21	DS4
ATOM	36783	O	PHE	D	93	138.338	110.218	23.430	1.00	54.21	DS4
ATOM	36784	N	LEU	D	94	139.250	112.203	22.897	1.00	49.16	DS4
ATOM	36785	CA	LEU	D	94	139.259	112.651	24.276	1.00	49.16	DS4
ATOM	36786	CB	LEU	D	94	139.563	114.143	24.338	1.00	42.50	DS4
ATOM	36787	CG	LEU	D	94	140.995	114.506	23.974	1.00	42.50	DS4
ATOM	36788	CD1	LEU	D	94	141.142	116.009	23.899	1.00	42.50	DS4
ATOM	36789	CD2	LEU	D	94	141.928	113.924	25.022	1.00	42.50	DS4
ATOM	36790	C	LEU	D	94	137.896	112.363	24.889	1.00	49.16	DS4
ATOM	36791	O	LEU	D	94	137.781	112.113	26.085	1.00	49.16	DS4
ATOM	36792	N	GLY	D	95	136.859	112.388	24.062	1.00	63.75	DS4
ATOM	36793	CA	GLY	D	95	135.528	112.114	24.566	1.00	63.75	DS4
ATOM	36794	C	GLY	D	95	135.466	110.736	25.188	1.00	63.75	DS4
ATOM	36795	O	GLY	D	95	135.239	110.587	26.391	1.00	63.75	DS4



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ATOM	36796	N	LEU	D	96	135.691	109.726	24.359	1.00	43.68	DS4
ATOM	36797	CA	LEU	D	96	135.662	108.345	24.803	1.00	43.68	DS4
ATOM	36798	CB	LEU	D	96	135.920	107.434	23.616	1.00	47.21	DS4
ATOM	36799	CG	LEU	D	96	134.683	107.283	22.734	1.00	47.21	DS4
ATOM	36800	CD1	LEU	D	96	133.962	108.629	22.560	1.00	47.21	DS4
ATOM	36801	CD2	LEU	D	96	135.114	106.711	21.405	1.00	47.21	DS4
ATOM	36802	C	LEU	D	96	136.639	108.051	25.932	1.00	43.68	DS4
ATOM	36803	O	LEU	D	96	136.332	107.264	26.829	1.00	43.68	DS4
ATOM	36804	N	LEU	D	97	137.810	108.677	25.892	1.00	57.66	DS4
ATOM	36805	CA	LEU	D	97	138.799	108.478	26.947	1.00	57.66	DS4
ATOM	36806	CB	LEU	D	97	140.068	109.283	26.668	1.00	65.25	DS4
ATOM	36807	CG	LEU	D	97	141.067	108.603	25.735	1.00	65.25	DS4
ATOM	36808	CD1	LEU	D	97	142.118	109.588	25.253	1.00	65.25	DS4
ATOM	36809	CD2	LEU	D	97	141.703	107.451	26.483	1.00	65.25	DS4
ATOM	36810	C	LEU	D	97	138.206	108.927	28.268	1.00	57.66	DS4
ATOM	36811	O	LEU	D	97	138.337	108.244	29.278	1.00	57.66	DS4
ATOM	36812	N	GLU	D	98	137.530	110.070	28.250	1.00	71.19	DS4
ATOM	36813	CA	GLU	D	98	136.929	110.612	29.456	1.00	71.19	DS4
ATOM	36814	CB	GLU	D	98	136.522	112.061	29.221	1.00	52.61	DS4
ATOM	36815	CG	GLU	D	98	136.674	112.924	30.449	1.00	52.61	DS4
ATOM	36816	CD	GLU	D	98	138.125	113.138	30.812	1.00	52.61	DS4
ATOM	36817	OE1	GLU	D	98	138.856	113.719	29.990	1.00	52.61	DS4
ATOM	36818	OE2	GLU	D	98	138.541	112.726	31.911	1.00	52.61	DS4
ATOM	36819	C	GLU	D	98	135.719	109.816	29.944	1.00	71.19	DS4
ATOM	36820	O	GLU	D	98	135.300	109.966	31.095	1.00	71.19	DS4
ATOM	36821	N	SER	D	99	135.163	108.975	29.071	1.00	45.89	DS4
ATOM	36822	CA	SER	D	99	133.999	108.159	29.419	1.00	45.89	DS4
ATOM	36823	CB	SER	D	99	133.167	107.864	28.179	1.00	52.09	DS4
ATOM	36824	OG	SER	D	99	132.890	109.045	27.463	1.00	52.09	DS4
ATOM	36825	C	SER	D	99	134.370	106.830	30.082	1.00	45.89	DS4
ATOM	36826	O	SER	D	99	133.502	105.981	30.341	1.00	45.89	DS4
ATOM	36827	N	ARG	D	100	135.659	106.629	30.338	1.00	54.18	DS4
ATOM	36828	CA	ARG	D	100	136.069	105.398	30.996	1.00	54.18	DS4
ATOM	36829	CB	ARG	D	100	137.585	105.182	30.917	1.00	63.54	DS4
ATOM	36830	CG	ARG	D	100	138.089	104.548	29.645	1.00	63.54	DS4
ATOM	36831	CD	ARG	D	100	139.595	104.494	29.675	1.00	63.54	DS4
ATOM	36832	NE	ARG	D	100	140.128	103.556	30.662	1.00	63.54	DS4
ATOM	36833	CZ	ARG	D	100	140.235	102.242	30.462	1.00	63.54	DS4
ATOM	36834	NH1	ARG	D	100	139.839	101.711	29.308	1.00	63.54	DS4
ATOM	36835	NH2	ARG	D	100	140.757	101.456	31.401	1.00	63.54	DS4
ATOM	36836	C	ARG	D	100	135.673	105.504	32.451	1.00	54.18	DS4
ATOM	36837	O	ARG	D	100	135.963	106.500	33.125	1.00	54.18	DS4
ATOM	36838	N	LEU	D	101	135.001	104.471	32.928	1.00	42.31	DS4
ATOM	36839	CA	LEU	D	101	134.590	104.429	34.316	1.00	42.31	DS4
ATOM	36840	CB	LEU	D	101	134.118	103.021	34.667	1.00	47.95	DS4
ATOM	36841	CG	LEU	D	101	133.615	102.763	36.076	1.00	47.95	DS4
ATOM	36842	CD1	LEU	D	101	132.625	103.829	36.493	1.00	47.95	DS4
ATOM	36843	CD2	LEU	D	101	132.959	101.404	36.079	1.00	47.95	DS4
ATOM	36844	C	LEU	D	101	135.748	104.832	35.231	1.00	42.31	DS4
ATOM	36845	O	LEU	D	101	135.698	105.882	35.868	1.00	42.31	DS4
ATOM	36846	N	ASP	D	102	136.797	104.012	35.277	1.00	63.04	DS4
ATOM	36847	CA	ASP	D	102	137.924	104.316	36.148	1.00	63.04	DS4
ATOM	36848	CB	ASP	D	102	139.169	103.446	35.817	1.00	66.50	DS4
ATOM	36849	CG	ASP	D	102	139.781	103.717	34.434	1.00	66.50	DS4
ATOM	36850	OD1	ASP	D	102	139.195	104.446	33.605	1.00	66.50	DS4
ATOM	36851	OD2	ASP	D	102	140.878	103.169	34.181	1.00	66.50	DS4
ATOM	36852	C	ASP	D	102	138.238	105.806	36.125	1.00	63.04	DS4
ATOM	36853	O	ASP	D	102	138.433	106.415	37.182	1.00	63.04	DS4
ATOM	36854	N	ASN	D	103	138.248	106.407	34.938	1.00	68.17	DS4
ATOM	36855	CA	ASN	D	103	138.514	107.831	34.844	1.00	68.17	DS4
ATOM	36856	CB	ASN	D	103	138.490	108.290	33.389	1.00	45.76	DS4
ATOM	36857	CG	ASN	D	103	138.670	109.814	33.239	1.00	45.76	DS4
ATOM	36858	OD1	ASN	D	103	139.741	110.374	33.549	1.00	45.76	DS4
ATOM	36859	ND2	ASN	D	103	137.615	110.488	32.755	1.00	45.76	DS4
ATOM	36860	C	ASN	D	103	137.412	108.544	35.619	1.00	68.17	DS4
ATOM	36861	O	ASN	D	103	137.658	109.147	36.661	1.00	68.17	DS4
ATOM	36862	N	VAL	D	104	136.188	108.451	35.110	1.00	55.42	DS4
ATOM	36863	CA	VAL	D	104	135.047	109.095	35.739	1.00	55.42	DS4
ATOM	36864	CB	VAL	D	104	133.751	108.483	35.259	1.00	39.18	DS4
ATOM	36865	CG1	VAL	D	104	132.600	109.285	35.785	1.00	39.18	DS4
ATOM	36866	CG2	VAL	D	104	133.731	108.453	33.742	1.00	39.18	DS4
ATOM	36867	C	VAL	D	104	135.076	109.028	37.252	1.00	55.42	DS4
ATOM	36868	O	VAL	D	104	134.844	110.032	37.910	1.00	55.42	DS4
ATOM	36869	N	VAL	D	105	135.338	107.850	37.810	1.00	52.52	DS4
ATOM	36870	CA	VAL	D	105	135.415	107.713	39.264	1.00	52.52	DS4
ATOM	36871	CB	VAL	D	105	135.839	106.252	39.682	1.00	35.02	DS4
ATOM	36872	CG1	VAL	D	105	136.406	106.219	41.106	1.00	35.02	DS4



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ATOM	36873	CG2	VAL	D	105	134.629	105.327	39.603	1.00	35.02	DS4
ATOM	36874	C	VAL	D	105	136.451	108.738	39.740	1.00	52.52	DS4
ATOM	36875	O	VAL	D	105	136.212	109.504	40.675	1.00	52.52	DS4
ATOM	36876	N	TYR	D	106	137.596	108.760	39.071	1.00	64.14	DS4
ATOM	36877	CA	TYR	D	106	138.657	109.701	39.399	1.00	64.14	DS4
ATOM	36878	CB	TYR	D	106	139.835	109.504	38.465	1.00	67.20	DS4
ATOM	36879	CG	TYR	D	106	140.719	110.717	38.414	1.00	67.20	DS4
ATOM	36880	CD1	TYR	D	106	141.537	111.039	39.493	1.00	67.20	DS4
ATOM	36881	CE1	TYR	D	106	142.344	112.169	39.473	1.00	67.20	DS4
ATOM	36882	CD2	TYR	D	106	140.721	111.559	37.303	1.00	67.20	DS4
ATOM	36883	CE2	TYR	D	106	141.521	112.693	37.268	1.00	67.20	DS4
ATOM	36884	CZ	TYR	D	106	142.334	112.996	38.361	1.00	67.20	DS4
ATOM	36885	OH	TYR	D	106	143.136	114.124	38.364	1.00	67.20	DS4
ATOM	36886	C	TYR	D	106	138.185	111.148	39.270	1.00	64.14	DS4
ATOM	36887	O	TYR	D	106	138.513	111.992	40.098	1.00	64.14	DS4
ATOM	36888	N	ARG	D	107	137.443	111.432	38.205	1.00	80.99	DS4
ATOM	36889	CA	ARG	D	107	136.918	112.774	37.960	1.00	80.99	DS4
ATOM	36890	CB	ARG	D	107	136.146	112.821	36.630	1.00	58.54	DS4
ATOM	36891	CG	ARG	D	107	136.987	112.914	35.359	1.00	58.54	DS4
ATOM	36892	CD	ARG	D	107	137.651	114.276	35.192	1.00	58.54	DS4
ATOM	36893	NE	ARG	D	107	138.354	114.360	33.914	1.00	58.54	DS4
ATOM	36894	CZ	ARG	D	107	139.290	115.257	33.621	1.00	58.54	DS4
ATOM	36895	NH1	ARG	D	107	139.649	116.170	34.512	1.00	58.54	DS4
ATOM	36896	NH2	ARG	D	107	139.886	115.221	32.440	1.00	58.54	DS4
ATOM	36897	C	ARG	D	107	135.979	113.223	39.077	1.00	80.99	DS4
ATOM	36898	O	ARG	D	107	135.921	114.405	39.409	1.00	80.99	DS4
ATOM	36899	N	LEU	D	108	135.249	112.272	39.649	1.00	77.22	DS4
ATOM	36900	CA	LEU	D	108	134.288	112.562	40.704	1.00	77.22	DS4
ATOM	36901	CB	LEU	D	108	133.223	111.488	40.702	1.00	37.67	DS4
ATOM	36902	CG	LEU	D	108	132.391	111.657	39.443	1.00	37.67	DS4
ATOM	36903	CD1	LEU	D	108	131.340	110.566	39.367	1.00	37.67	DS4
ATOM	36904	CD2	LEU	D	108	131.746	113.032	39.475	1.00	37.67	DS4
ATOM	36905	C	LEU	D	108	134.816	112.737	42.119	1.00	77.22	DS4
ATOM	36906	O	LEU	D	108	134.053	113.046	43.037	1.00	77.22	DS4
ATOM	36907	N	GLY	D	109	136.115	112.558	42.304	1.00	78.06	DS4
ATOM	36908	CA	GLY	D	109	136.673	112.706	43.629	1.00	78.06	DS4
ATOM	36909	C	GLY	D	109	136.993	111.347	44.197	1.00	78.06	DS4
ATOM	36910	O	GLY	D	109	138.161	111.013	44.357	1.00	78.06	DS4
ATOM	36911	N	PHE	D	110	135.953	110.570	44.488	1.00	69.01	DS4
ATOM	36912	CA	PHE	D	110	136.086	109.220	45.044	1.00	69.01	DS4
ATOM	36913	CB	PHE	D	110	135.415	108.203	44.120	1.00	43.09	DS4
ATOM	36914	CG	PHE	D	110	133.961	108.481	43.846	1.00	43.09	DS4
ATOM	36915	CD1	PHE	D	110	133.409	109.728	44.080	1.00	43.09	DS4
ATOM	36916	CD2	PHE	D	110	133.151	107.494	43.295	1.00	43.09	DS4
ATOM	36917	CE1	PHE	D	110	132.073	109.988	43.764	1.00	43.09	DS4
ATOM	36918	CE2	PHE	D	110	131.812	107.744	42.975	1.00	43.09	DS4
ATOM	36919	CZ	PHE	D	110	131.277	108.988	43.208	1.00	43.09	DS4
ATOM	36920	C	PHE	D	110	137.542	108.801	45.263	1.00	69.01	DS4
ATOM	36921	O	PHE	D	110	137.993	108.642	46.404	1.00	69.01	DS4
ATOM	36922	N	ALA	D	111	138.274	108.630	44.161	1.00	53.59	DS4
ATOM	36923	CA	ALA	D	111	139.673	108.229	44.227	1.00	53.59	DS4
ATOM	36924	CB	ALA	D	111	139.944	107.148	43.218	1.00	92.30	DS4
ATOM	36925	C	ALA	D	111	140.621	109.390	44.000	1.00	53.59	DS4
ATOM	36926	O	ALA	D	111	140.404	110.234	43.133	1.00	53.59	DS4
ATOM	36927	N	VAL	D	112	141.680	109.412	44.795	1.00	71.48	DS4
ATOM	36928	CA	VAL	D	112	142.709	110.439	44.732	1.00	71.48	DS4
ATOM	36929	CB	VAL	D	112	143.887	110.080	45.666	1.00	103.69	DS4
ATOM	36930	CG1	VAL	D	112	145.015	111.080	45.498	1.00	103.69	DS4
ATOM	36931	CG2	VAL	D	112	143.410	110.038	47.112	1.00	103.69	DS4
ATOM	36932	C	VAL	D	112	143.266	110.616	43.329	1.00	71.48	DS4
ATOM	36933	O	VAL	D	112	143.286	111.725	42.795	1.00	71.48	DS4
ATOM	36934	N	SER	D	113	143.720	109.513	42.740	1.00	69.31	DS4
ATOM	36935	CA	SER	D	113	144.309	109.539	41.407	1.00	69.31	DS4
ATOM	36936	CB	SER	D	113	145.788	109.169	41.488	1.00	152.68	DS4
ATOM	36937	OG	SER	D	113	145.930	107.800	41.823	1.00	66.41	DS4
ATOM	36938	C	SER	D	113	143.644	108.618	40.384	1.00	69.31	DS4
ATOM	36939	O	SER	D	113	142.696	107.885	40.682	1.00	69.31	DS4
ATOM	36940	N	ARG	D	114	144.176	108.671	39.166	1.00	58.34	DS4
ATOM	36941	CA	ARG	D	114	143.681	107.864	38.070	1.00	58.34	DS4
ATOM	36942	CB	ARG	D	114	144.483	108.177	36.799	1.00	55.01	DS4
ATOM	36943	CG	ARG	D	114	144.023	109.437	36.060	1.00	55.01	DS4
ATOM	36944	CD	ARG	D	114	142.922	109.083	35.057	1.00	55.01	DS4
ATOM	36945	NE	ARG	D	114	142.098	110.211	34.599	1.00	55.01	DS4
ATOM	36946	CZ	ARG	D	114	142.555	111.406	34.220	1.00	55.01	DS4
ATOM	36947	NH1	ARG	D	114	143.864	111.680	34.246	1.00	55.01	DS4
ATOM	36948	NH2	ARG	D	114	141.694	112.323	33.784	1.00	55.01	DS4
ATOM	36949	C	ARG	D	114	143.846	106.415	38.480	1.00	58.34	DS4



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ATOM	36950	O	ARG	D	114	142.865	105.681	38.614	1.00	58.34	DS4
ATOM	36951	N	ARG	D	115	145.093	106.017	38.701	1.00	67.59	DS4
ATOM	36952	CA	ARG	D	115	145.403	104.649	39.102	1.00	67.59	DS4
ATOM	36953	CB	ARG	D	115	146.844	104.569	39.597	1.00	117.13	DS4
ATOM	36954	CG	ARG	D	115	147.867	104.996	38.560	1.00	117.13	DS4
ATOM	36955	CD	ARG	D	115	149.267	104.586	38.985	1.00	117.13	DS4
ATOM	36956	NE	ARG	D	115	149.983	103.921	37.901	1.00	117.13	DS4
ATOM	36957	CZ	ARG	D	115	151.161	103.321	38.036	1.00	117.13	DS4
ATOM	36958	NH1	ARG	D	115	151.767	103.299	39.217	1.00	117.13	DS4
ATOM	36959	NH2	ARG	D	115	151.731	102.739	36.986	1.00	117.13	DS4
ATOM	36960	C	ARG	D	115	144.462	104.159	40.194	1.00	67.59	DS4
ATOM	36961	O	ARG	D	115	143.695	103.206	40.004	1.00	67.59	DS4
ATOM	36962	N	GLN	D	116	144.524	104.829	41.339	1.00	81.64	DS4
ATOM	36963	CA	GLN	D	116	143.693	104.484	42.476	1.00	81.64	DS4
ATOM	36964	CB	GLN	D	116	143.665	105.645	43.463	1.00	70.46	DS4
ATOM	36965	CG	GLN	D	116	143.215	105.240	44.845	1.00	70.46	DS4
ATOM	36966	CD	GLN	D	116	143.020	106.419	45.763	1.00	70.46	DS4
ATOM	36967	OE1	GLN	D	116	142.099	107.212	45.577	1.00	70.46	DS4
ATOM	36968	NE2	GLN	D	116	143.887	106.546	46.761	1.00	70.46	DS4
ATOM	36969	C	GLN	D	116	142.269	104.129	42.045	1.00	81.64	DS4
ATOM	36970	O	GLN	D	116	141.835	102.990	42.214	1.00	81.64	DS4
ATOM	36971	N	ALA	D	117	141.551	105.097	41.478	1.00	57.30	DS4
ATOM	36972	CA	ALA	D	117	140.170	104.869	41.036	1.00	57.30	DS4
ATOM	36973	CB	ALA	D	117	139.695	105.996	40.136	1.00	37.23	DS4
ATOM	36974	C	ALA	D	117	140.063	103.556	40.300	1.00	57.30	DS4
ATOM	36975	O	ALA	D	117	139.157	102.758	40.570	1.00	57.30	DS4
ATOM	36976	N	ARG	D	118	140.992	103.339	39.368	1.00	78.63	DS4
ATOM	36977	CA	ARG	D	118	141.011	102.107	38.591	1.00	78.63	DS4
ATOM	36978	CB	ARG	D	118	142.339	101.974	37.826	1.00	75.36	DS4
ATOM	36979	CG	ARG	D	118	142.355	100.894	36.728	1.00	75.36	DS4
ATOM	36980	CD	ARG	D	118	143.761	100.727	36.123	1.00	75.36	DS4
ATOM	36981	NE	ARG	D	118	143.857	99.639	35.145	1.00	75.36	DS4
ATOM	36982	CZ	ARG	D	118	143.318	99.673	33.930	1.00	75.36	DS4
ATOM	36983	NH1	ARG	D	118	143.451	98.635	33.115	1.00	75.36	DS4
ATOM	36984	NH2	ARG	D	118	142.651	100.751	33.527	1.00	75.36	DS4
ATOM	36985	C	ARG	D	118	140.831	100.950	39.577	1.00	78.63	DS4
ATOM	36986	O	ARG	D	118	139.897	100.152	39.448	1.00	78.63	DS4
ATOM	36987	N	GLN	D	119	141.703	100.887	40.581	1.00	65.81	DS4
ATOM	36988	CA	GLN	D	119	141.619	99.832	41.589	1.00	65.81	DS4
ATOM	36989	CB	GLN	D	119	142.693	100.019	42.668	1.00	59.58	DS4
ATOM	36990	CG	GLN	D	119	142.724	98.896	43.697	1.00	59.58	DS4
ATOM	36991	CD	GLN	D	119	143.939	98.946	44.630	1.00	59.58	DS4
ATOM	36992	OE1	GLN	D	119	144.096	99.871	45.423	1.00	59.58	DS4
ATOM	36993	NE2	GLN	D	119	144.800	97.943	44.533	1.00	59.58	DS4
ATOM	36994	C	GLN	D	119	140.242	99.807	42.244	1.00	65.81	DS4
ATOM	36995	O	GLN	D	119	139.629	98.751	42.386	1.00	65.81	DS4
ATOM	36996	N	LEU	D	120	139.754	100.973	42.641	1.00	50.75	DS4
ATOM	36997	CA	LEU	D	120	138.450	101.039	43.272	1.00	50.75	DS4
ATOM	36998	CB	LEU	D	120	138.057	102.495	43.505	1.00	60.66	DS4
ATOM	36999	CG	LEU	D	120	138.785	103.061	44.725	1.00	60.66	DS4
ATOM	37000	CD1	LEU	D	120	138.651	104.569	44.776	1.00	60.66	DS4
ATOM	37001	CD2	LEU	D	120	138.205	102.413	45.979	1.00	60.66	DS4
ATOM	37002	C	LEU	D	120	137.398	100.332	42.436	1.00	50.75	DS4
ATOM	37003	O	LEU	D	120	136.617	99.533	42.953	1.00	50.75	DS4
ATOM	37004	N	VAL	D	121	137.391	100.623	41.141	1.00	63.71	DS4
ATOM	37005	CA	VAL	D	121	136.437	100.018	40.220	1.00	63.71	DS4
ATOM	37006	CB	VAL	D	121	136.634	100.568	38.797	1.00	58.57	DS4
ATOM	37007	CG1	VAL	D	121	135.500	100.123	37.907	1.00	58.57	DS4
ATOM	37008	CG2	VAL	D	121	136.706	102.073	38.831	1.00	58.57	DS4
ATOM	37009	C	VAL	D	121	136.685	98.519	40.206	1.00	63.71	DS4
ATOM	37010	O	VAL	D	121	135.760	97.705	40.315	1.00	63.71	DS4
ATOM	37011	N	ARG	D	122	137.961	98.176	40.082	1.00	51.83	DS4
ATOM	37012	CA	ARG	D	122	138.401	96.795	40.054	1.00	51.83	DS4
ATOM	37013	CB	ARG	D	122	139.913	96.750	39.896	1.00	74.40	DS4
ATOM	37014	CG	ARG	D	122	140.364	96.042	38.648	1.00	74.40	DS4
ATOM	37015	CD	ARG	D	122	140.122	94.559	38.746	1.00	74.40	DS4
ATOM	37016	NE	ARG	D	122	139.116	94.092	37.804	1.00	74.40	DS4
ATOM	37017	CZ	ARG	D	122	138.935	92.810	37.506	1.00	74.40	DS4
ATOM	37018	NH1	ARG	D	122	139.696	91.887	38.080	1.00	74.40	DS4
ATOM	37019	NH2	ARG	D	122	138.000	92.444	36.635	1.00	74.40	DS4
ATOM	37020	C	ARG	D	122	137.996	96.036	41.309	1.00	51.83	DS4
ATOM	37021	O	ARG	D	122	137.491	94.925	41.214	1.00	51.83	DS4
ATOM	37022	N	HIS	D	123	138.220	96.630	42.482	1.00	70.14	DS4
ATOM	37023	CA	HIS	D	123	137.862	95.984	43.744	1.00	70.14	DS4
ATOM	37024	CB	HIS	D	123	138.715	96.527	44.897	1.00	76.23	DS4
ATOM	37025	CG	HIS	D	123	140.156	96.119	44.835	1.00	76.23	DS4
ATOM	37026	CD2	HIS	D	123	141.272	96.706	45.332	1.00	76.23	DS4



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ATOM	37027	ND1	HIS	D	123	140.575	94.946	44.243	1.00	76.23	DS4
ATOM	37028	CE1	HIS	D	123	141.886	94.830	44.378	1.00	76.23	DS4
ATOM	37029	NE2	HIS	D	123	142.333	95.885	45.037	1.00	76.23	DS4
ATOM	37030	C	HIS	D	123	136.375	96.099	44.114	1.00	70.14	DS4
ATOM	37031	O	HIS	D	123	136.003	95.880	45.262	1.00	70.14	DS4
ATOM	37032	N	GLY	D	124	135.532	96.454	43.145	1.00	81.49	DS4
ATOM	37033	CA	GLY	D	124	134.097	96.543	43.385	1.00	81.49	DS4
ATOM	37034	C	GLY	D	124	133.533	97.701	44.186	1.00	81.49	DS4
ATOM	37035	O	GLY	D	124	132.314	97.829	44.302	1.00	81.49	DS4
ATOM	37036	N	HIS	D	125	134.396	98.547	44.735	1.00	53.44	DS4
ATOM	37037	CA	HIS	D	125	133.936	99.682	45.524	1.00	53.44	DS4
ATOM	37038	CB	HIS	D	125	135.136	100.418	46.126	1.00	61.18	DS4
ATOM	37039	CG	HIS	D	125	136.037	99.535	46.928	1.00	61.18	DS4
ATOM	37040	CD2	HIS	D	125	137.373	99.327	46.865	1.00	61.18	DS4
ATOM	37041	ND1	HIS	D	125	135.570	98.714	47.931	1.00	61.18	DS4
ATOM	37042	CE1	HIS	D	125	136.579	98.035	48.449	1.00	61.18	DS4
ATOM	37043	NE2	HIS	D	125	137.685	98.388	47.819	1.00	61.18	DS4
ATOM	37044	C	HIS	D	125	133.082	100.670	44.724	1.00	53.44	DS4
ATOM	37045	O	HIS	D	125	132.619	101.677	45.267	1.00	53.44	DS4
ATOM	37046	N	ILE	D	126	132.846	100.376	43.447	1.00	59.75	DS4
ATOM	37047	CA	ILE	D	126	132.081	101.294	42.613	1.00	59.75	DS4
ATOM	37048	CB	ILE	D	126	132.895	101.685	41.391	1.00	56.06	DS4
ATOM	37049	CG2	ILE	D	126	132.152	102.731	40.588	1.00	56.06	DS4
ATOM	37050	CG1	ILE	D	126	134.265	102.211	41.845	1.00	56.06	DS4
ATOM	37051	CD1	ILE	D	126	134.221	103.472	42.703	1.00	56.06	DS4
ATOM	37052	C	ILE	D	126	130.714	100.823	42.154	1.00	59.75	DS4
ATOM	37053	O	ILE	D	126	130.481	99.633	41.980	1.00	59.75	DS4
ATOM	37054	N	THR	D	127	129.824	101.787	41.942	1.00	86.54	DS4
ATOM	37055	CA	THR	D	127	128.443	101.544	41.524	1.00	86.54	DS4
ATOM	37056	CB	THR	D	127	127.458	102.137	42.561	1.00	119.27	DS4
ATOM	37057	OG1	THR	D	127	127.624	101.474	43.821	1.00	119.27	DS4
ATOM	37058	CG2	THR	D	127	126.017	102.008	42.079	1.00	119.27	DS4
ATOM	37059	C	THR	D	127	128.113	102.195	40.179	1.00	86.54	DS4
ATOM	37060	O	THR	D	127	128.648	103.247	39.844	1.00	86.54	DS4
ATOM	37061	N	VAL	D	128	127.224	101.572	39.413	1.00	65.48	DS4
ATOM	37062	CA	VAL	D	128	126.798	102.135	38.132	1.00	65.48	DS4
ATOM	37063	CB	VAL	D	128	127.509	101.494	36.941	1.00	75.81	DS4
ATOM	37064	CG1	VAL	D	128	126.960	102.073	35.651	1.00	75.81	DS4
ATOM	37065	CG2	VAL	D	128	129.001	101.741	37.033	1.00	75.81	DS4
ATOM	37066	C	VAL	D	128	125.318	101.867	37.985	1.00	65.48	DS4
ATOM	37067	O	VAL	D	128	124.922	100.810	37.498	1.00	65.48	DS4
ATOM	37068	N	ASN	D	129	124.509	102.833	38.408	1.00	50.63	DS4
ATOM	37069	CA	ASN	D	129	123.056	102.704	38.365	1.00	50.63	DS4
ATOM	37070	CB	ASN	D	129	122.559	102.486	36.937	1.00	84.73	DS4
ATOM	37071	CG	ASN	D	129	123.306	103.320	35.928	1.00	84.73	DS4
ATOM	37072	OD1	ASN	D	129	123.491	104.531	36.106	1.00	84.73	DS4
ATOM	37073	ND2	ASN	D	129	123.736	102.678	34.847	1.00	84.73	DS4
ATOM	37074	C	ASN	D	129	122.704	101.484	39.194	1.00	50.63	DS4
ATOM	37075	O	ASN	D	129	121.768	100.748	38.862	1.00	50.63	DS4
ATOM	37076	N	GLY	D	130	123.459	101.278	40.271	1.00	57.68	DS4
ATOM	37077	CA	GLY	D	130	123.241	100.121	41.117	1.00	57.68	DS4
ATOM	37078	C	GLY	D	130	124.322	99.106	40.795	1.00	57.68	DS4
ATOM	37079	O	GLY	D	130	125.455	99.240	41.266	1.00	57.68	DS4
ATOM	37080	N	ARG	D	131	123.986	98.106	39.979	1.00	66.47	DS4
ATOM	37081	CA	ARG	D	131	124.948	97.081	39.587	1.00	66.47	DS4
ATOM	37082	CB	ARG	D	131	124.760	96.677	38.117	1.00	197.24	DS4
ATOM	37083	CG	ARG	D	131	123.677	95.642	37.851	1.00	197.24	DS4
ATOM	37084	CD	ARG	D	131	122.283	96.221	38.011	1.00	197.24	DS4
ATOM	37085	NE	ARG	D	131	121.246	95.236	37.705	1.00	197.24	DS4
ATOM	37086	CZ	ARG	D	131	119.938	95.483	37.743	1.00	197.24	DS4
ATOM	37087	NH1	ARG	D	131	119.493	96.688	38.075	1.00	197.24	DS4
ATOM	37088	NH2	ARG	D	131	119.071	94.523	37.450	1.00	197.24	DS4
ATOM	37089	C	ARG	D	131	126.374	97.580	39.770	1.00	66.47	DS4
ATOM	37090	O	ARG	D	131	126.727	98.671	39.306	1.00	66.47	DS4
ATOM	37091	N	ARG	D	132	127.190	96.798	40.465	1.00	61.01	DS4
ATOM	37092	CA	ARG	D	132	128.571	97.191	40.650	1.00	61.01	DS4
ATOM	37093	CB	ARG	D	132	129.168	96.547	41.907	1.00	101.88	DS4
ATOM	37094	CG	ARG	D	132	129.368	95.050	41.813	1.00	101.88	DS4
ATOM	37095	CD	ARG	D	132	130.474	94.561	42.754	1.00	101.88	DS4
ATOM	37096	NE	ARG	D	132	130.755	93.143	42.537	1.00	101.88	DS4
ATOM	37097	CZ	ARG	D	132	129.929	92.158	42.878	1.00	101.88	DS4
ATOM	37098	NH1	ARG	D	132	128.769	92.430	43.467	1.00	101.88	DS4
ATOM	37099	NH2	ARG	D	132	130.246	90.901	42.602	1.00	101.88	DS4
ATOM	37100	C	ARG	D	132	129.336	96.740	39.402	1.00	61.01	DS4
ATOM	37101	O	ARG	D	132	129.229	95.592	38.978	1.00	61.01	DS4
ATOM	37102	N	VAL	D	133	130.090	97.662	38.813	1.00	48.95	DS4
ATOM	37103	CA	VAL	D	133	130.876	97.399	37.615	1.00	48.95	DS4



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ATOM	37104	CB	VAL	D	133	130.566	98.472	36.549	1.00	39.41	DS4
ATOM	37105	CG1	VAL	D	133	131.543	98.379	35.397	1.00	39.41	DS4
ATOM	37106	CG2	VAL	D	133	129.151	98.314	36.066	1.00	39.41	DS4
ATOM	37107	C	VAL	D	133	132.365	97.450	37.961	1.00	48.95	DS4
ATOM	37108	O	VAL	D	133	132.852	98.485	38.400	1.00	48.95	DS4
ATOM	37109	N	ASP	D	134	133.094	96.355	37.766	1.00	44.61	DS4
ATOM	37110	CA	ASP	D	134	134.515	96.362	38.094	1.00	44.61	DS4
ATOM	37111	CB	ASP	D	134	134.864	95.187	38.995	1.00	94.88	DS4
ATOM	37112	CG	ASP	D	134	134.605	93.864	38.330	1.00	94.88	DS4
ATOM	37113	OD1	ASP	D	134	133.431	93.572	38.043	1.00	94.88	DS4
ATOM	37114	OD2	ASP	D	134	135.570	93.117	38.085	1.00	94.88	DS4
ATOM	37115	C	ASP	D	134	135.409	96.328	36.867	1.00	44.61	DS4
ATOM	37116	O	ASP	D	134	136.471	95.704	36.876	1.00	44.61	DS4
ATOM	37117	N	LEU	D	135	134.984	97.013	35.814	1.00	60.94	DS4
ATOM	37118	CA	LEU	D	135	135.755	97.076	34.579	1.00	60.94	DS4
ATOM	37119	CB	LEU	D	135	134.884	96.642	33.416	1.00	39.88	DS4
ATOM	37120	CG	LEU	D	135	134.252	95.307	33.775	1.00	39.88	DS4
ATOM	37121	CD1	LEU	D	135	133.135	94.972	32.832	1.00	39.88	DS4
ATOM	37122	CD2	LEU	D	135	135.338	94.246	33.750	1.00	39.88	DS4
ATOM	37123	C	LEU	D	135	136.214	98.506	34.388	1.00	60.94	DS4
ATOM	37124	O	LEU	D	135	135.450	99.374	33.985	1.00	60.94	DS4
ATOM	37125	N	PRO	D	136	137.477	98.774	34.691	1.00	45.12	DS4
ATOM	37126	CD	PRO	D	136	138.515	97.826	35.112	1.00	43.39	DS4
ATOM	37127	CA	PRO	D	136	138.018	100.122	34.548	1.00	45.12	DS4
ATOM	37128	CB	PRO	D	136	139.485	99.957	34.935	1.00	43.39	DS4
ATOM	37129	CG	PRO	D	136	139.488	98.734	35.808	1.00	43.39	DS4
ATOM	37130	C	PRO	D	136	137.874	100.589	33.114	1.00	45.12	DS4
ATOM	37131	O	PRO	D	136	137.988	101.779	32.826	1.00	45.12	DS4
ATOM	37132	N	SER	D	137	137.628	99.636	32.220	1.00	55.37	DS4
ATOM	37133	CA	SER	D	137	137.485	99.911	30.796	1.00	55.37	DS4
ATOM	37134	CB	SER	D	137	138.012	98.723	30.005	1.00	99.97	DS4
ATOM	37135	OG	SER	D	137	137.343	97.538	30.406	1.00	99.97	DS4
ATOM	37136	C	SER	D	137	136.034	100.156	30.421	1.00	55.37	DS4
ATOM	37137	O	SER	D	137	135.698	100.309	29.251	1.00	55.37	DS4
ATOM	37138	N	TYR	D	138	135.173	100.189	31.425	1.00	55.61	DS4
ATOM	37139	CA	TYR	D	138	133.746	100.393	31.210	1.00	55.61	DS4
ATOM	37140	CB	TYR	D	138	133.003	100.133	32.511	1.00	70.73	DS4
ATOM	37141	CG	TYR	D	138	131.511	100.150	32.363	1.00	70.73	DS4
ATOM	37142	CD1	TYR	D	138	130.824	99.018	31.927	1.00	70.73	DS4
ATOM	37143	CE1	TYR	D	138	129.451	99.027	31.800	1.00	70.73	DS4
ATOM	37144	CD2	TYR	D	138	130.783	101.298	32.663	1.00	70.73	DS4
ATOM	37145	CE2	TYR	D	138	129.409	101.318	32.537	1.00	70.73	DS4
ATOM	37146	CZ	TYR	D	138	128.751	100.179	32.106	1.00	70.73	DS4
ATOM	37147	OH	TYR	D	138	127.389	100.199	31.987	1.00	70.73	DS4
ATOM	37148	C	TYR	D	138	133.385	101.790	30.692	1.00	55.61	DS4
ATOM	37149	O	TYR	D	138	133.742	102.822	31.286	1.00	55.61	DS4
ATOM	37150	N	ARG	D	139	132.649	101.824	29.591	1.00	69.81	DS4
ATOM	37151	CA	ARG	D	139	132.275	103.101	29.016	1.00	69.81	DS4
ATOM	37152	CB	ARG	D	139	132.059	102.984	27.515	1.00	67.39	DS4
ATOM	37153	CG	ARG	D	139	131.653	104.294	26.899	1.00	67.39	DS4
ATOM	37154	CD	ARG	D	139	131.642	104.205	25.404	1.00	67.39	DS4
ATOM	37155	NE	ARG	D	139	132.962	103.905	24.874	1.00	67.39	DS4
ATOM	37156	CZ	ARG	D	139	133.206	103.776	23.578	1.00	67.39	DS4
ATOM	37157	NH1	ARG	D	139	132.207	103.931	22.714	1.00	67.39	DS4
ATOM	37158	NH2	ARG	D	139	134.428	103.477	23.148	1.00	67.39	DS4
ATOM	37159	C	ARG	D	139	131.038	103.696	29.632	1.00	69.81	DS4
ATOM	37160	O	ARG	D	139	129.922	103.232	29.395	1.00	69.81	DS4
ATOM	37161	N	VAL	D	140	131.247	104.745	30.410	1.00	67.88	DS4
ATOM	37162	CA	VAL	D	140	130.157	105.441	31.068	1.00	67.88	DS4
ATOM	37163	CB	VAL	D	140	130.700	106.410	32.140	1.00	65.80	DS4
ATOM	37164	CG1	VAL	D	140	129.565	107.193	32.747	1.00	65.80	DS4
ATOM	37165	CG2	VAL	D	140	131.466	105.638	33.214	1.00	65.80	DS4
ATOM	37166	C	VAL	D	140	129.373	106.254	30.049	1.00	67.88	DS4
ATOM	37167	O	VAL	D	140	129.937	107.132	29.401	1.00	67.88	DS4
ATOM	37168	N	ARG	D	141	128.089	105.958	29.888	1.00	46.29	DS4
ATOM	37169	CA	ARG	D	141	127.262	106.727	28.965	1.00	46.29	DS4
ATOM	37170	CB	ARG	D	141	126.043	105.933	28.512	1.00	151.15	DS4
ATOM	37171	CG	ARG	D	141	126.285	104.578	27.925	1.00	151.15	DS4
ATOM	37172	CD	ARG	D	141	124.982	104.171	27.281	1.00	151.15	DS4
ATOM	37173	NE	ARG	D	141	124.795	102.733	27.168	1.00	151.15	DS4
ATOM	37174	CZ	ARG	D	141	123.697	102.174	26.666	1.00	151.15	DS4
ATOM	37175	NH1	ARG	D	141	122.701	102.943	26.237	1.00	151.15	DS4
ATOM	37176	NH2	ARG	D	141	123.587	100.851	26.593	1.00	151.15	DS4
ATOM	37177	C	ARG	D	141	126.740	107.967	29.723	1.00	46.29	DS4
ATOM	37178	O	ARG	D	141	127.032	108.153	30.910	1.00	46.29	DS4
ATOM	37179	N	PRO	D	142	125.981	108.844	29.037	1.00	74.47	DS4
ATOM	37180	CD	PRO	D	142	126.050	109.128	27.597	1.00	75.03	DS4



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ATOM	37181	CA	PRO	D	142	125.461	110.017	29.743	1.00	74.47	DS4
ATOM	37182	CB	PRO	D	142	125.269	111.042	28.630	1.00	75.03	DS4
ATOM	37183	CG	PRO	D	142	126.259	110.621	27.608	1.00	75.03	DS4
ATOM	37184	C	PRO	D	142	124.138	109.617	30.385	1.00	74.47	DS4
ATOM	37185	O	PRO	D	142	123.361	108.852	29.809	1.00	74.47	DS4
ATOM	37186	N	GLY	D	143	123.900	110.131	31.583	1.00	71.75	DS4
ATOM	37187	CA	GLY	D	143	122.684	109.807	32.295	1.00	71.75	DS4
ATOM	37188	C	GLY	D	143	122.925	108.744	33.349	1.00	71.75	DS4
ATOM	37189	O	GLY	D	143	121.998	108.340	34.049	1.00	71.75	DS4
ATOM	37190	N	ASP	D	144	124.165	108.286	33.479	1.00	59.32	DS4
ATOM	37191	CA	ASP	D	144	124.465	107.254	34.463	1.00	59.32	DS4
ATOM	37192	CB	ASP	D	144	125.687	106.431	34.044	1.00	71.55	DS4
ATOM	37193	CG	ASP	D	144	125.462	105.644	32.763	1.00	71.55	DS4
ATOM	37194	OD1	ASP	D	144	124.314	105.230	32.509	1.00	71.55	DS4
ATOM	37195	OD2	ASP	D	144	126.439	105.419	32.017	1.00	71.55	DS4
ATOM	37196	C	ASP	D	144	124.721	107.816	35.850	1.00	59.32	DS4
ATOM	37197	O	ASP	D	144	125.055	108.989	36.007	1.00	59.32	DS4
ATOM	37198	N	GLU	D	145	124.543	106.958	36.849	1.00	62.10	DS4
ATOM	37199	CA	GLU	D	145	124.787	107.304	38.244	1.00	62.10	DS4
ATOM	37200	CB	GLU	D	145	123.566	107.001	39.113	1.00	198.84	DS4
ATOM	37201	CG	GLU	D	145	122.467	108.044	39.068	1.00	198.84	DS4
ATOM	37202	CD	GLU	D	145	121.506	107.911	40.239	1.00	198.84	DS4
ATOM	37203	OE1	GLU	D	145	120.874	106.841	40.378	1.00	198.84	DS4
ATOM	37204	OE2	GLU	D	145	121.388	108.876	41.026	1.00	198.84	DS4
ATOM	37205	C	GLU	D	145	125.970	106.471	38.734	1.00	62.10	DS4
ATOM	37206	O	GLU	D	145	125.886	105.245	38.853	1.00	62.10	DS4
ATOM	37207	N	ILE	D	146	127.072	107.136	39.031	1.00	69.29	DS4
ATOM	37208	CA	ILE	D	146	128.247	106.420	39.479	1.00	69.29	DS4
ATOM	37209	CB	ILE	D	146	129.448	106.887	38.686	1.00	57.47	DS4
ATOM	37210	CG2	ILE	D	146	130.671	106.042	39.020	1.00	57.47	DS4
ATOM	37211	CG1	ILE	D	146	129.093	106.795	37.206	1.00	57.47	DS4
ATOM	37212	CD1	ILE	D	146	130.178	107.259	36.300	1.00	57.47	DS4
ATOM	37213	C	ILE	D	146	128.485	106.582	40.968	1.00	69.29	DS4
ATOM	37214	O	ILE	D	146	129.122	107.534	41.414	1.00	69.29	DS4
ATOM	37215	N	ALA	D	147	127.975	105.624	41.734	1.00	70.19	DS4
ATOM	37216	CA	ALA	D	147	128.096	105.662	43.180	1.00	70.19	DS4
ATOM	37217	CB	ALA	D	147	126.800	105.172	43.817	1.00	185.45	DS4
ATOM	37218	C	ALA	D	147	129.262	104.875	43.737	1.00	70.19	DS4
ATOM	37219	O	ALA	D	147	130.064	104.301	43.005	1.00	70.19	DS4
ATOM	37220	N	VAL	D	148	129.343	104.880	45.060	1.00	61.28	DS4
ATOM	37221	CA	VAL	D	148	130.370	104.162	45.781	1.00	61.28	DS4
ATOM	37222	CB	VAL	D	148	131.050	105.063	46.824	1.00	65.61	DS4
ATOM	37223	CG1	VAL	D	148	132.076	104.283	47.592	1.00	65.61	DS4
ATOM	37224	CG2	VAL	D	148	131.727	106.229	46.139	1.00	65.61	DS4
ATOM	37225	C	VAL	D	148	129.612	103.045	46.473	1.00	61.28	DS4
ATOM	37226	O	VAL	D	148	128.458	103.223	46.861	1.00	61.28	DS4
ATOM	37227	N	ALA	D	149	130.246	101.889	46.606	1.00	97.28	DS4
ATOM	37228	CA	ALA	D	149	129.603	100.747	47.241	1.00	97.28	DS4
ATOM	37229	CB	ALA	D	149	130.543	99.547	47.240	1.00	157.13	DS4
ATOM	37230	C	ALA	D	149	129.160	101.052	48.662	1.00	97.28	DS4
ATOM	37231	O	ALA	D	149	129.924	101.584	49.469	1.00	97.28	DS4
ATOM	37232	N	GLU	D	150	127.912	100.715	48.958	1.00	74.65	DS4
ATOM	37233	CA	GLU	D	150	127.358	100.930	50.284	1.00	74.65	DS4
ATOM	37234	CB	GLU	D	150	126.035	100.182	50.437	1.00	120.70	DS4
ATOM	37235	CG	GLU	D	150	125.183	100.190	49.182	1.00	120.70	DS4
ATOM	37236	CD	GLU	D	150	125.952	99.688	47.969	1.00	120.70	DS4
ATOM	37237	OE1	GLU	D	150	126.432	98.534	48.001	1.00	120.70	DS4
ATOM	37238	OE2	GLU	D	150	126.096	100.455	46.992	1.00	120.70	DS4
ATOM	37239	C	GLU	D	150	128.399	100.301	51.169	1.00	74.65	DS4
ATOM	37240	O	GLU	D	150	129.064	100.977	51.952	1.00	74.65	DS4
ATOM	37241	N	LYS	D	151	128.563	98.996	50.994	1.00	59.51	DS4
ATOM	37242	CA	LYS	D	151	129.527	98.246	51.767	1.00	59.51	DS4
ATOM	37243	CB	LYS	D	151	129.799	96.903	51.101	1.00	128.07	DS4
ATOM	37244	CG	LYS	D	151	128.643	95.927	51.198	1.00	128.07	DS4
ATOM	37245	CD	LYS	D	151	127.395	96.433	50.494	1.00	128.07	DS4
ATOM	37246	CE	LYS	D	151	126.262	95.419	50.616	1.00	128.07	DS4
ATOM	37247	NZ	LYS	D	151	125.000	95.876	49.962	1.00	128.07	DS4
ATOM	37248	C	LYS	D	151	130.821	99.029	51.892	1.00	59.51	DS4
ATOM	37249	O	LYS	D	151	131.443	99.076	52.957	1.00	59.51	DS4
ATOM	37250	N	SER	D	152	131.218	99.675	50.809	1.00	80.07	DS4
ATOM	37251	CA	SER	D	152	132.464	100.424	50.824	1.00	80.07	DS4
ATOM	37252	CB	SER	D	152	132.965	100.595	49.390	1.00	93.00	DS4
ATOM	37253	OG	SER	D	152	133.149	99.338	48.761	1.00	93.00	DS4
ATOM	37254	C	SER	D	152	132.410	101.782	51.525	1.00	80.07	DS4
ATOM	37255	O	SER	D	152	133.417	102.230	52.074	1.00	80.07	DS4
ATOM	37256	N	ARG	D	153	131.240	102.423	51.514	1.00	92.04	DS4
ATOM	37257	CA	ARG	D	153	131.060	103.748	52.120	1.00	92.04	DS4



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ATOM	37258	CB	ARG	D	153	129.566	104.060	52.279	1.00	90.37	DS4
ATOM	37259	CG	ARG	D	153	128.828	104.222	50.961	1.00	90.37	DS4
ATOM	37260	CD	ARG	D	153	127.522	104.989	51.140	1.00	90.37	DS4
ATOM	37261	NE	ARG	D	153	126.338	104.131	51.078	1.00	90.37	DS4
ATOM	37262	CZ	ARG	D	153	125.503	104.058	50.039	1.00	90.37	DS4
ATOM	37263	NH1	ARG	D	153	125.719	104.798	48.955	1.00	90.37	DS4
ATOM	37264	NH2	ARG	D	153	124.442	103.250	50.085	1.00	90.37	DS4
ATOM	37265	C	ARG	D	153	131.775	103.987	53.454	1.00	92.04	DS4
ATOM	37266	O	ARG	D	153	132.097	105.126	53.796	1.00	92.04	DS4
ATOM	37267	N	ASN	D	154	132.030	102.913	54.195	1.00	78.08	DS4
ATOM	37268	CA	ASN	D	154	132.695	103.007	55.490	1.00	78.08	DS4
ATOM	37269	CB	ASN	D	154	132.261	101.842	56.376	1.00	183.75	DS4
ATOM	37270	CG	ASN	D	154	130.774	101.843	56.638	1.00	183.75	DS4
ATOM	37271	OD1	ASN	D	154	130.249	102.750	57.285	1.00	183.75	DS4
ATOM	37272	ND2	ASN	D	154	130.080	100.830	56.129	1.00	183.75	DS4
ATOM	37273	C	ASN	D	154	134.212	103.012	55.378	1.00	78.08	DS4
ATOM	37274	O	ASN	D	154	134.911	103.328	56.339	1.00	78.08	DS4
ATOM	37275	N	LEU	D	155	134.716	102.662	54.200	1.00	91.51	DS4
ATOM	37276	CA	LEU	D	155	136.155	102.609	53.955	1.00	91.51	DS4
ATOM	37277	CB	LEU	D	155	136.402	102.130	52.525	1.00	98.53	DS4
ATOM	37278	CG	LEU	D	155	135.970	100.672	52.358	1.00	98.53	DS4
ATOM	37279	CD1	LEU	D	155	135.787	100.312	50.898	1.00	98.53	DS4
ATOM	37280	CD2	LEU	D	155	137.019	99.789	53.014	1.00	98.53	DS4
ATOM	37281	C	LEU	D	155	136.891	103.921	54.221	1.00	91.51	DS4
ATOM	37282	O	LEU	D	155	136.641	104.944	53.573	1.00	91.51	DS4
ATOM	37283	N	GLU	D	156	137.804	103.864	55.187	1.00	71.07	DS4
ATOM	37284	CA	GLU	D	156	138.599	105.012	55.599	1.00	71.07	DS4
ATOM	37285	CB	GLU	D	156	139.872	104.540	56.304	1.00	144.50	DS4
ATOM	37286	CG	GLU	D	156	140.629	105.641	57.034	1.00	144.50	DS4
ATOM	37287	CD	GLU	D	156	142.020	105.209	57.478	1.00	144.50	DS4
ATOM	37288	OE1	GLU	D	156	142.967	105.309	56.669	1.00	144.50	DS4
ATOM	37289	OE2	GLU	D	156	142.165	104.760	58.635	1.00	144.50	DS4
ATOM	37290	C	GLU	D	156	138.975	105.856	54.396	1.00	71.07	DS4
ATOM	37291	O	GLU	D	156	138.814	107.082	54.396	1.00	71.07	DS4
ATOM	37292	N	LEU	D	157	139.467	105.175	53.366	1.00	68.68	DS4
ATOM	37293	CA	LEU	D	157	139.895	105.826	52.137	1.00	68.68	DS4
ATOM	37294	CB	LEU	D	157	140.497	104.784	51.187	1.00	114.19	DS4
ATOM	37295	CG	LEU	D	157	140.947	105.197	49.780	1.00	114.19	DS4
ATOM	37296	CD1	LEU	D	157	139.741	105.322	48.876	1.00	114.19	DS4
ATOM	37297	CD2	LEU	D	157	141.732	106.502	49.839	1.00	114.19	DS4
ATOM	37298	C	LEU	D	157	138.763	106.572	51.450	1.00	68.68	DS4
ATOM	37299	O	LEU	D	157	138.929	107.715	51.031	1.00	68.68	DS4
ATOM	37300	N	ILE	D	158	137.611	105.925	51.339	1.00	71.07	DS4
ATOM	37301	CA	ILE	D	158	136.476	106.547	50.684	1.00	71.07	DS4
ATOM	37302	CB	ILE	D	158	135.310	105.560	50.563	1.00	83.08	DS4
ATOM	37303	CG2	ILE	D	158	134.035	106.280	50.134	1.00	83.08	DS4
ATOM	37304	CG1	ILE	D	158	135.686	104.493	49.542	1.00	83.08	DS4
ATOM	37305	CD1	ILE	D	158	134.629	103.477	49.311	1.00	83.08	DS4
ATOM	37306	C	ILE	D	158	136.019	107.807	51.394	1.00	71.07	DS4
ATOM	37307	O	ILE	D	158	135.729	108.823	50.752	1.00	71.07	DS4
ATOM	37308	N	ARG	D	159	135.959	107.750	52.716	1.00	86.34	DS4
ATOM	37309	CA	ARG	D	159	135.538	108.914	53.474	1.00	86.34	DS4
ATOM	37310	CB	ARG	D	159	135.330	108.543	54.939	1.00	198.94	DS4
ATOM	37311	CG	ARG	D	159	134.187	107.575	55.154	1.00	198.94	DS4
ATOM	37312	CD	ARG	D	159	133.894	107.398	56.628	1.00	198.94	DS4
ATOM	37313	NE	ARG	D	159	132.755	106.514	56.847	1.00	198.94	DS4
ATOM	37314	CZ	ARG	D	159	132.254	106.227	58.044	1.00	198.94	DS4
ATOM	37315	NH1	ARG	D	159	132.794	106.756	59.134	1.00	198.94	DS4
ATOM	37316	NH2	ARG	D	159	131.214	105.411	58.150	1.00	198.94	DS4
ATOM	37317	C	ARG	D	159	136.561	110.037	53.354	1.00	86.34	DS4
ATOM	37318	O	ARG	D	159	136.216	111.156	52.961	1.00	86.34	DS4
ATOM	37319	N	GLN	D	160	137.819	109.736	53.682	1.00	77.52	DS4
ATOM	37320	CA	GLN	D	160	138.884	110.737	53.608	1.00	77.52	DS4
ATOM	37321	CB	GLN	D	160	140.265	110.071	53.672	1.00	133.87	DS4
ATOM	37322	CG	GLN	D	160	140.612	109.470	55.031	1.00	133.87	DS4
ATOM	37323	CD	GLN	D	160	142.069	109.026	55.138	1.00	133.87	DS4
ATOM	37324	OE1	GLN	D	160	142.993	109.814	54.921	1.00	133.87	DS4
ATOM	37325	NE2	GLN	D	160	142.277	107.761	55.485	1.00	133.87	DS4
ATOM	37326	C	GLN	D	160	138.777	111.561	52.330	1.00	77.52	DS4
ATOM	37327	O	GLN	D	160	138.861	112.789	52.367	1.00	77.52	DS4
ATOM	37328	N	ASN	D	161	138.576	110.875	51.206	1.00	74.30	DS4
ATOM	37329	CA	ASN	D	161	138.470	111.530	49.907	1.00	74.30	DS4
ATOM	37330	CB	ASN	D	161	138.584	110.514	48.757	1.00	85.06	DS4
ATOM	37331	CG	ASN	D	161	139.823	109.629	48.856	1.00	85.06	DS4
ATOM	37332	OD1	ASN	D	161	140.931	110.094	49.132	1.00	85.06	DS4
ATOM	37333	ND2	ASN	D	161	139.635	108.342	48.607	1.00	85.06	DS4
ATOM	37334	C	ASN	D	161	137.157	112.279	49.760	1.00	74.30	DS4



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ATOM	37335	O	ASN	D	161	137.144	113.466	49.443	1.00	74.30	DS4
ATOM	37336	N	LEU	D	162	136.046	111.587	49.976	1.00	73.75	DS4
ATOM	37337	CA	LEU	D	162	134.755	112.239	49.844	1.00	73.75	DS4
ATOM	37338	CB	LEU	D	162	133.623	111.237	50.046	1.00	77.47	DS4
ATOM	37339	CG	LEU	D	162	133.119	110.671	48.719	1.00	77.47	DS4
ATOM	37340	CD1	LEU	D	162	132.321	109.420	48.965	1.00	77.47	DS4
ATOM	37341	CD2	LEU	D	162	132.280	111.716	48.001	1.00	77.47	DS4
ATOM	37342	C	LEU	D	162	134.615	113.410	50.799	1.00	73.75	DS4
ATOM	37343	O	LEU	D	162	133.863	114.341	50.522	1.00	73.75	DS4
ATOM	37344	N	GLU	D	163	135.337	113.368	51.918	1.00	99.17	DS4
ATOM	37345	CA	GLU	D	163	135.291	114.474	52.870	1.00	99.17	DS4
ATOM	37346	CB	GLU	D	163	136.004	114.119	54.185	1.00	110.35	DS4
ATOM	37347	CG	GLU	D	163	136.280	115.330	55.122	1.00	110.35	DS4
ATOM	37348	CD	GLU	D	163	135.031	115.904	55.809	1.00	110.35	DS4
ATOM	37349	OE1	GLU	D	163	135.100	117.047	56.325	1.00	110.35	DS4
ATOM	37350	OE2	GLU	D	163	133.988	115.214	55.846	1.00	110.35	DS4
ATOM	37351	C	GLU	D	163	136.009	115.636	52.200	1.00	99.17	DS4
ATOM	37352	O	GLU	D	163	135.402	116.664	51.897	1.00	99.17	DS4
ATOM	37353	N	ALA	D	164	137.305	115.460	51.963	1.00	77.91	DS4
ATOM	37354	CA	ALA	D	164	138.106	116.488	51.312	1.00	77.91	DS4
ATOM	37355	CB	ALA	D	164	139.480	115.934	50.973	1.00	110.86	DS4
ATOM	37356	C	ALA	D	164	137.399	116.953	50.041	1.00	77.91	DS4
ATOM	37357	O	ALA	D	164	137.716	118.004	49.480	1.00	77.91	DS4
ATOM	37358	N	MET	D	165	136.434	116.160	49.593	1.00	56.67	DS4
ATOM	37359	CA	MET	D	165	135.682	116.493	48.399	1.00	56.67	DS4
ATOM	37360	CB	MET	D	165	134.994	115.250	47.838	1.00	91.35	DS4
ATOM	37361	CG	MET	D	165	135.657	114.755	46.568	1.00	91.35	DS4
ATOM	37362	SD	MET	D	165	135.932	116.112	45.378	1.00	91.35	DS4
ATOM	37363	CE	MET	D	165	134.341	116.108	44.531	1.00	91.35	DS4
ATOM	37364	C	MET	D	165	134.657	117.594	48.624	1.00	56.67	DS4
ATOM	37365	O	MET	D	165	134.241	118.264	47.681	1.00	56.67	DS4
ATOM	37366	N	LYS	D	166	134.230	117.775	49.866	1.00	104.06	DS4
ATOM	37367	CA	LYS	D	166	133.270	118.824	50.170	1.00	104.06	DS4
ATOM	37368	CB	LYS	D	166	133.041	118.890	51.678	1.00	101.62	DS4
ATOM	37369	CG	LYS	D	166	132.539	117.590	52.271	1.00	101.62	DS4
ATOM	37370	CD	LYS	D	166	132.392	117.672	53.781	1.00	101.62	DS4
ATOM	37371	CE	LYS	D	166	131.716	116.419	54.328	1.00	101.62	DS4
ATOM	37372	NZ	LYS	D	166	131.569	116.458	55.812	1.00	101.62	DS4
ATOM	37373	C	LYS	D	166	133.886	120.129	49.674	1.00	104.06	DS4
ATOM	37374	O	LYS	D	166	135.059	120.400	49.940	1.00	104.06	DS4
ATOM	37375	N	GLY	D	167	133.120	120.922	48.934	1.00	151.47	DS4
ATOM	37376	CA	GLY	D	167	133.652	122.181	48.443	1.00	151.47	DS4
ATOM	37377	C	GLY	D	167	134.061	122.185	46.981	1.00	151.47	DS4
ATOM	37378	O	GLY	D	167	133.433	122.864	46.169	1.00	151.47	DS4
ATOM	37379	N	ARG	D	168	135.117	121.445	46.646	1.00	84.69	DS4
ATOM	37380	CA	ARG	D	168	135.599	121.367	45.265	1.00	84.69	DS4
ATOM	37381	CB	ARG	D	168	136.485	120.133	45.070	1.00	125.62	DS4
ATOM	37382	CG	ARG	D	168	137.746	120.043	45.915	1.00	125.62	DS4
ATOM	37383	CD	ARG	D	168	138.436	118.721	45.585	1.00	125.62	DS4
ATOM	37384	NE	ARG	D	168	139.730	118.536	46.236	1.00	125.62	DS4
ATOM	37385	CZ	ARG	D	168	140.522	117.483	46.029	1.00	125.62	DS4
ATOM	37386	NH1	ARG	D	168	140.146	116.524	45.191	1.00	125.62	DS4
ATOM	37387	NH2	ARG	D	168	141.694	117.387	46.651	1.00	125.62	DS4
ATOM	37388	C	ARG	D	168	134.443	121.269	44.267	1.00	84.69	DS4
ATOM	37389	O	ARG	D	168	133.492	120.515	44.488	1.00	84.69	DS4
ATOM	37390	N	LYS	D	169	134.523	122.032	43.178	1.00	84.85	DS4
ATOM	37391	CA	LYS	D	169	133.496	121.980	42.139	1.00	84.85	DS4
ATOM	37392	CB	LYS	D	169	133.529	123.233	41.262	1.00	104.66	DS4
ATOM	37393	CG	LYS	D	169	132.915	124.470	41.892	1.00	104.66	DS4
ATOM	37394	CD	LYS	D	169	132.974	125.651	40.924	1.00	104.66	DS4
ATOM	37395	CE	LYS	D	169	132.360	126.923	41.517	1.00	104.66	DS4
ATOM	37396	NZ	LYS	D	169	132.425	128.099	40.585	1.00	104.66	DS4
ATOM	37397	C	LYS	D	169	133.801	120.759	41.277	1.00	84.85	DS4
ATOM	37398	O	LYS	D	169	134.804	120.079	41.487	1.00	84.85	DS4
ATOM	37399	N	VAL	D	170	132.948	120.474	40.306	1.00	67.46	DS4
ATOM	37400	CA	VAL	D	170	133.189	119.322	39.451	1.00	67.46	DS4
ATOM	37401	CB	VAL	D	170	132.219	118.156	39.801	1.00	53.27	DS4
ATOM	37402	CG1	VAL	D	170	131.079	118.083	38.785	1.00	53.27	DS4
ATOM	37403	CG2	VAL	D	170	132.976	116.845	39.852	1.00	53.27	DS4
ATOM	37404	C	VAL	D	170	133.038	119.686	37.975	1.00	67.46	DS4
ATOM	37405	O	VAL	D	170	132.352	120.651	37.623	1.00	67.46	DS4
ATOM	37406	N	GLY	D	171	133.687	118.907	37.116	1.00	58.49	DS4
ATOM	37407	CA	GLY	D	171	133.597	119.157	35.695	1.00	58.49	DS4
ATOM	37408	C	GLY	D	171	132.171	119.497	35.320	1.00	58.49	DS4
ATOM	37409	O	GLY	D	171	131.219	118.957	35.899	1.00	58.49	DS4
ATOM	37410	N	PRO	D	172	131.985	120.400	34.351	1.00	59.18	DS4
ATOM	37411	CD	PRO	D	172	132.987	121.171	33.597	1.00	41.35	DS4



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ATOM	37412	CA	PRO	D	172	130.634	120.772	33.947	1.00	59.18	DS4
ATOM	37413	CB	PRO	D	172	130.873	121.975	33.034	1.00	41.35	DS4
ATOM	37414	CG	PRO	D	172	132.182	121.674	32.432	1.00	41.35	DS4
ATOM	37415	C	PRO	D	172	129.846	119.641	33.286	1.00	59.18	DS4
ATOM	37416	O	PRO	D	172	128.665	119.804	32.976	1.00	59.18	DS4
ATOM	37417	N	TRP	D	173	130.482	118.492	33.070	1.00	62.02	DS4
ATOM	37418	CA	TRP	D	173	129.769	117.366	32.462	1.00	62.02	DS4
ATOM	37419	CB	TRP	D	173	130.603	116.738	31.320	1.00	54.80	DS4
ATOM	37420	CG	TRP	D	173	131.857	115.995	31.727	1.00	54.80	DS4
ATOM	37421	CD2	TRP	D	173	133.135	116.564	32.034	1.00	54.80	DS4
ATOM	37422	CE2	TRP	D	173	134.005	115.497	32.348	1.00	54.80	DS4
ATOM	37423	CE3	TRP	D	173	133.631	117.874	32.070	1.00	54.80	DS4
ATOM	37424	CD1	TRP	D	173	132.001	114.645	31.865	1.00	54.80	DS4
ATOM	37425	NE1	TRP	D	173	133.289	114.336	32.238	1.00	54.80	DS4
ATOM	37426	CZ2	TRP	D	173	135.338	115.696	32.695	1.00	54.80	DS4
ATOM	37427	CZ3	TRP	D	173	134.960	118.074	32.411	1.00	54.80	DS4
ATOM	37428	CH2	TRP	D	173	135.799	116.989	32.720	1.00	54.80	DS4
ATOM	37429	C	TRP	D	173	129.459	116.350	33.561	1.00	62.02	DS4
ATOM	37430	O	TRP	D	173	128.947	115.250	33.312	1.00	62.02	DS4
ATOM	37431	N	LEU	D	174	129.741	116.772	34.789	1.00	65.44	DS4
ATOM	37432	CA	LEU	D	174	129.553	115.944	35.965	1.00	65.44	DS4
ATOM	37433	CB	LEU	D	174	130.900	115.730	36.640	1.00	53.05	DS4
ATOM	37434	CG	LEU	D	174	132.016	115.161	35.771	1.00	53.05	DS4
ATOM	37435	CD1	LEU	D	174	133.333	115.175	36.547	1.00	53.05	DS4
ATOM	37436	CD2	LEU	D	174	131.632	113.751	35.336	1.00	53.05	DS4
ATOM	37437	C	LEU	D	174	128.609	116.571	36.971	1.00	65.44	DS4
ATOM	37438	O	LEU	D	174	127.992	117.594	36.708	1.00	65.44	DS4
ATOM	37439	N	SER	D	175	128.526	115.940	38.138	1.00	77.61	DS4
ATOM	37440	CA	SER	D	175	127.693	116.393	39.249	1.00	77.61	DS4
ATOM	37441	CB	SER	D	175	126.243	116.623	38.794	1.00	89.70	DS4
ATOM	37442	OG	SER	D	175	125.557	115.405	38.560	1.00	89.70	DS4
ATOM	37443	C	SER	D	175	127.741	115.287	40.293	1.00	77.61	DS4
ATOM	37444	O	SER	D	175	127.783	114.108	39.938	1.00	77.61	DS4
ATOM	37445	N	LEU	D	176	127.763	115.653	41.571	1.00	101.51	DS4
ATOM	37446	CA	LEU	D	176	127.798	114.636	42.619	1.00	101.51	DS4
ATOM	37447	CB	LEU	D	176	129.232	114.177	42.904	1.00	67.60	DS4
ATOM	37448	CG	LEU	D	176	130.150	115.170	43.604	1.00	67.60	DS4
ATOM	37449	CD1	LEU	D	176	131.312	114.451	44.293	1.00	67.60	DS4
ATOM	37450	CD2	LEU	D	176	130.633	116.160	42.567	1.00	67.60	DS4
ATOM	37451	C	LEU	D	176	127.163	115.043	43.938	1.00	101.51	DS4
ATOM	37452	O	LEU	D	176	127.365	116.150	44.435	1.00	101.51	DS4
ATOM	37453	N	ASP	D	177	126.399	114.118	44.504	1.00	101.37	DS4
ATOM	37454	CA	ASP	D	177	125.735	114.331	45.774	1.00	101.37	DS4
ATOM	37455	CB	ASP	D	177	124.400	113.590	45.775	1.00	121.44	DS4
ATOM	37456	CG	ASP	D	177	123.678	113.696	47.092	1.00	121.44	DS4
ATOM	37457	OD1	ASP	D	177	124.155	113.099	48.078	1.00	121.44	DS4
ATOM	37458	OD2	ASP	D	177	122.633	114.376	47.143	1.00	121.44	DS4
ATOM	37459	C	ASP	D	177	126.670	113.765	46.835	1.00	101.37	DS4
ATOM	37460	O	ASP	D	177	126.504	112.628	47.280	1.00	101.37	DS4
ATOM	37461	N	VAL	D	178	127.662	114.562	47.226	1.00	59.49	DS4
ATOM	37462	CA	VAL	D	178	128.650	114.142	48.218	1.00	59.49	DS4
ATOM	37463	CB	VAL	D	178	129.489	115.334	48.706	1.00	44.54	DS4
ATOM	37464	CG1	VAL	D	178	130.710	114.838	49.444	1.00	44.54	DS4
ATOM	37465	CG2	VAL	D	178	129.912	116.183	47.533	1.00	44.54	DS4
ATOM	37466	C	VAL	D	178	127.994	113.482	49.426	1.00	59.49	DS4
ATOM	37467	O	VAL	D	178	128.586	112.620	50.084	1.00	59.49	DS4
ATOM	37468	N	GLU	D	179	126.763	113.897	49.709	1.00	115.31	DS4
ATOM	37469	CA	GLU	D	179	126.006	113.360	50.832	1.00	115.31	DS4
ATOM	37470	CB	GLU	D	179	124.561	113.878	50.797	1.00	195.79	DS4
ATOM	37471	CG	GLU	D	179	124.386	115.269	50.193	1.00	195.79	DS4
ATOM	37472	CD	GLU	D	179	124.893	116.379	51.089	1.00	195.79	DS4
ATOM	37473	OE1	GLU	D	179	126.062	116.310	51.524	1.00	195.79	DS4
ATOM	37474	OE2	GLU	D	179	124.122	117.326	51.352	1.00	195.79	DS4
ATOM	37475	C	GLU	D	179	125.993	111.840	50.735	1.00	115.31	DS4
ATOM	37476	O	GLU	D	179	126.703	111.154	51.470	1.00	115.31	DS4
ATOM	37477	N	GLY	D	180	125.186	111.329	49.807	1.00	110.50	DS4
ATOM	37478	CA	GLY	D	180	125.058	109.896	49.616	1.00	110.50	DS4
ATOM	37479	C	GLY	D	180	126.153	109.278	48.773	1.00	110.50	DS4
ATOM	37480	O	GLY	D	180	126.149	108.070	48.528	1.00	110.50	DS4
ATOM	37481	N	MET	D	181	127.092	110.107	48.327	1.00	94.53	DS4
ATOM	37482	CA	MET	D	181	128.208	109.640	47.515	1.00	94.53	DS4
ATOM	37483	CB	MET	D	181	128.923	108.492	48.226	1.00	105.02	DS4
ATOM	37484	CG	MET	D	181	129.212	108.775	49.689	1.00	105.02	DS4
ATOM	37485	SD	MET	D	181	129.838	107.332	50.569	1.00	105.02	DS4
ATOM	37486	CE	MET	D	181	131.214	108.028	51.516	1.00	105.02	DS4
ATOM	37487	C	MET	D	181	127.744	109.187	46.134	1.00	94.53	DS4
ATOM	37488	O	MET	D	181	128.193	108.161	45.623	1.00	94.53	DS4



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ATOM	37489	N	LYS	D	182	126.829	109.950	45.543	1.00	85.58	DS4
ATOM	37490	CA	LYS	D	182	126.321	109.649	44.213	1.00	85.58	DS4
ATOM	37491	CB	LYS	D	182	124.835	110.001	44.091	1.00	116.72	DS4
ATOM	37492	CG	LYS	D	182	124.004	109.698	45.316	1.00	116.72	DS4
ATOM	37493	CD	LYS	D	182	124.154	108.259	45.760	1.00	116.72	DS4
ATOM	37494	CE	LYS	D	182	123.405	108.019	47.066	1.00	116.72	DS4
ATOM	37495	NZ	LYS	D	182	123.581	106.635	47.593	1.00	116.72	DS4
ATOM	37496	C	LYS	D	182	127.118	110.534	43.264	1.00	85.58	DS4
ATOM	37497	O	LYS	D	182	128.047	111.224	43.683	1.00	85.58	DS4
ATOM	37498	N	GLY	D	183	126.739	110.522	41.993	1.00	94.66	DS4
ATOM	37499	CA	GLY	D	183	127.422	111.324	40.995	1.00	94.66	DS4
ATOM	37500	C	GLY	D	183	126.831	110.980	39.647	1.00	94.66	DS4
ATOM	37501	O	GLY	D	183	126.526	109.814	39.394	1.00	94.66	DS4
ATOM	37502	N	LYS	D	184	126.656	111.975	38.782	1.00	72.44	DS4
ATOM	37503	CA	LYS	D	184	126.077	111.715	37.472	1.00	72.44	DS4
ATOM	37504	CB	LYS	D	184	124.685	112.329	37.380	1.00	89.74	DS4
ATOM	37505	CG	LYS	D	184	123.577	111.419	37.858	1.00	89.74	DS4
ATOM	37506	CD	LYS	D	184	122.242	111.898	37.307	1.00	89.74	DS4
ATOM	37507	CE	LYS	D	184	121.126	110.888	37.539	1.00	89.74	DS4
ATOM	37508	NZ	LYS	D	184	119.946	111.174	36.664	1.00	89.74	DS4
ATOM	37509	C	LYS	D	184	126.896	112.151	36.258	1.00	72.44	DS4
ATOM	37510	O	LYS	D	184	127.542	113.209	36.252	1.00	72.44	DS4
ATOM	37511	N	PHE	D	185	126.859	111.305	35.228	1.00	63.76	DS4
ATOM	37512	CA	PHE	D	185	127.565	111.562	33.981	1.00	63.76	DS4
ATOM	37513	CB	PHE	D	185	127.978	110.251	33.315	1.00	57.14	DS4
ATOM	37514	CG	PHE	D	185	129.047	110.416	32.290	1.00	57.14	DS4
ATOM	37515	CD1	PHE	D	185	130.367	110.579	32.676	1.00	57.14	DS4
ATOM	37516	CD2	PHE	D	185	128.731	110.450	30.935	1.00	57.14	DS4
ATOM	37517	CE1	PHE	D	185	131.370	110.779	31.721	1.00	57.14	DS4
ATOM	37518	CE2	PHE	D	185	129.720	110.649	29.974	1.00	57.14	DS4
ATOM	37519	CZ	PHE	D	185	131.045	110.815	30.364	1.00	57.14	DS4
ATOM	37520	C	PHE	D	185	126.552	112.289	33.114	1.00	63.76	DS4
ATOM	37521	O	PHE	D	185	125.745	111.673	32.419	1.00	63.76	DS4
ATOM	37522	N	LEU	D	186	126.611	113.610	33.168	1.00	45.38	DS4
ATOM	37523	CA	LEU	D	186	125.677	114.454	32.446	1.00	45.38	DS4
ATOM	37524	CB	LEU	D	186	125.801	115.885	32.973	1.00	73.25	DS4
ATOM	37525	CG	LEU	D	186	125.767	116.028	34.497	1.00	73.25	DS4
ATOM	37526	CD1	LEU	D	186	126.221	117.402	34.877	1.00	73.25	DS4
ATOM	37527	CD2	LEU	D	186	124.369	115.773	35.012	1.00	73.25	DS4
ATOM	37528	C	LEU	D	186	125.789	114.467	30.932	1.00	45.38	DS4
ATOM	37529	O	LEU	D	186	124.812	114.218	30.226	1.00	45.38	DS4
ATOM	37530	N	ARG	D	187	126.983	114.763	30.437	1.00	92.89	DS4
ATOM	37531	CA	ARG	D	187	127.196	114.853	29.008	1.00	92.89	DS4
ATOM	37532	CB	ARG	D	187	126.831	116.271	28.565	1.00	120.43	DS4
ATOM	37533	CG	ARG	D	187	127.024	116.552	27.103	1.00	120.43	DS4
ATOM	37534	CD	ARG	D	187	126.280	115.535	26.258	1.00	120.43	DS4
ATOM	37535	NE	ARG	D	187	127.154	114.482	25.745	1.00	120.43	DS4
ATOM	37536	CZ	ARG	D	187	126.726	113.447	25.028	1.00	120.43	DS4
ATOM	37537	NH1	ARG	D	187	125.436	113.322	24.745	1.00	120.43	DS4
ATOM	37538	NH2	ARG	D	187	127.583	112.545	24.578	1.00	120.43	DS4
ATOM	37539	C	ARG	D	187	128.651	114.558	28.667	1.00	92.89	DS4
ATOM	37540	O	ARG	D	187	129.545	114.902	29.443	1.00	92.89	DS4
ATOM	37541	N	LEU	D	188	128.896	113.906	27.529	1.00	35.08	DS4
ATOM	37542	CA	LEU	D	188	130.277	113.641	27.108	1.00	35.08	DS4
ATOM	37543	CB	LEU	D	188	130.313	113.121	25.674	1.00	72.12	DS4
ATOM	37544	CG	LEU	D	188	130.174	111.623	25.423	1.00	72.12	DS4
ATOM	37545	CD1	LEU	D	188	129.989	111.376	23.930	1.00	72.12	DS4
ATOM	37546	CD2	LEU	D	188	131.412	110.900	25.941	1.00	72.12	DS4
ATOM	37547	C	LEU	D	188	131.051	114.960	27.158	1.00	35.08	DS4
ATOM	37548	O	LEU	D	188	130.673	115.937	26.507	1.00	35.08	DS4
ATOM	37549	N	PRO	D	189	132.150	115.011	27.917	1.00	60.04	DS4
ATOM	37550	CD	PRO	D	189	132.967	113.924	28.476	1.00	44.93	DS4
ATOM	37551	CA	PRO	D	189	132.875	116.281	27.955	1.00	60.04	DS4
ATOM	37552	CB	PRO	D	189	134.069	115.971	28.858	1.00	44.93	DS4
ATOM	37553	CG	PRO	D	189	134.359	114.561	28.540	1.00	44.93	DS4
ATOM	37554	C	PRO	D	189	133.280	116.703	26.549	1.00	60.04	DS4
ATOM	37555	O	PRO	D	189	133.273	115.892	25.613	1.00	60.04	DS4
ATOM	37556	N	ASP	D	190	133.619	117.976	26.402	1.00	59.10	DS4
ATOM	37557	CA	ASP	D	190	134.013	118.504	25.108	1.00	59.10	DS4
ATOM	37558	CB	ASP	D	190	133.132	119.694	24.737	1.00	164.85	DS4
ATOM	37559	CG	ASP	D	190	133.157	119.993	23.259	1.00	164.85	DS4
ATOM	37560	OD1	ASP	D	190	134.262	120.065	22.683	1.00	164.85	DS4
ATOM	37561	OD2	ASP	D	190	132.069	120.158	22.672	1.00	164.85	DS4
ATOM	37562	C	ASP	D	190	135.455	118.947	25.210	1.00	59.10	DS4
ATOM	37563	O	ASP	D	190	135.935	119.252	26.298	1.00	59.10	DS4
ATOM	37564	N	ARG	D	191	136.144	118.983	24.077	1.00	49.66	DS4
ATOM	37565	CA	ARG	D	191	137.538	119.392	24.067	1.00	49.66	DS4



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ATOM	37566	CB	ARG	D	191	138.021	119.616	22.638	1.00	88.36	DS4
ATOM	37567	CG	ARG	D	191	139.411	120.211	22.561	1.00	88.36	DS4
ATOM	37568	CD	ARG	D	191	140.341	119.516	23.532	1.00	88.36	DS4
ATOM	37569	NE	ARG	D	191	141.720	119.946	23.355	1.00	88.36	DS4
ATOM	37570	CZ	ARG	D	191	142.679	119.782	24.260	1.00	88.36	DS4
ATOM	37571	NH1	ARG	D	191	142.417	119.196	25.426	1.00	88.36	DS4
ATOM	37572	NH2	ARG	D	191	143.906	120.204	23.990	1.00	88.36	DS4
ATOM	37573	C	ARG	D	191	137.760	120.656	24.879	1.00	49.66	DS4
ATOM	37574	O	ARG	D	191	138.790	120.803	25.542	1.00	49.66	DS4
ATOM	37575	N	GLU	D	192	136.791	121.565	24.823	1.00	79.55	DS4
ATOM	37576	CA	GLU	D	192	136.878	122.819	25.552	1.00	79.55	DS4
ATOM	37577	CB	GLU	D	192	135.849	123.817	25.017	1.00177.47	DS4	
ATOM	37578	CG	GLU	D	192	136.205	124.438	23.673	1.00177.47	DS4	
ATOM	37579	CD	GLU	D	192	136.405	123.410	22.578	1.00177.47	DS4	
ATOM	37580	OE1	GLU	D	192	137.380	122.634	22.661	1.00177.47	DS4	
ATOM	37581	OE2	GLU	D	192	135.587	123.380	21.633	1.00177.47	DS4	
ATOM	37582	C	GLU	D	192	136.673	122.617	27.052	1.00	79.55	DS4
ATOM	37583	O	GLU	D	192	137.090	123.458	27.849	1.00	79.55	DS4
ATOM	37584	N	ASP	D	193	136.035	121.510	27.434	1.00	68.37	DS4
ATOM	37585	CA	ASP	D	193	135.793	121.207	28.847	1.00	68.37	DS4
ATOM	37586	CB	ASP	D	193	134.638	120.223	28.985	1.00102.22	DS4	
ATOM	37587	CG	ASP	D	193	133.326	120.818	28.544	1.00102.22	DS4	
ATOM	37588	OD1	ASP	D	193	132.898	121.818	29.160	1.00102.22	DS4	
ATOM	37589	OD2	ASP	D	193	132.727	120.293	27.581	1.00102.22	DS4	
ATOM	37590	C	ASP	D	193	137.030	120.627	29.523	1.00	68.37	DS4
ATOM	37591	O	ASP	D	193	137.140	120.640	30.748	1.00	68.37	DS4
ATOM	37592	N	LEU	D	194	137.954	120.125	28.709	1.00	69.01	DS4
ATOM	37593	CA	LEU	D	194	139.196	119.529	29.186	1.00	69.01	DS4
ATOM	37594	CB	LEU	D	194	139.523	118.282	28.376	1.00	47.48	DS4
ATOM	37595	CG	LEU	D	194	138.617	117.067	28.497	1.00	47.48	DS4
ATOM	37596	CD1	LEU	D	194	138.800	116.473	29.860	1.00	47.48	DS4
ATOM	37597	CD2	LEU	D	194	137.172	117.443	28.260	1.00	47.48	DS4
ATOM	37598	C	LEU	D	194	140.370	120.486	29.067	1.00	69.01	DS4
ATOM	37599	O	LEU	D	194	140.508	121.220	28.082	1.00	69.01	DS4
ATOM	37600	N	ALA	D	195	141.229	120.468	30.072	1.00	59.67	DS4
ATOM	37601	CA	ALA	D	195	142.402	121.316	30.059	1.00	59.67	DS4
ATOM	37602	CB	ALA	D	195	142.462	122.145	31.306	1.00	49.58	DS4
ATOM	37603	C	ALA	D	195	143.591	120.386	29.999	1.00	59.67	DS4
ATOM	37604	O	ALA	D	195	144.439	120.386	30.888	1.00	59.67	DS4
ATOM	37605	N	LEU	D	196	143.637	119.573	28.949	1.00	66.35	DS4
ATOM	37606	CA	LEU	D	196	144.725	118.630	28.768	1.00	66.35	DS4
ATOM	37607	CB	LEU	D	196	144.253	117.459	27.920	1.00	59.41	DS4
ATOM	37608	CG	LEU	D	196	143.347	116.526	28.706	1.00	59.41	DS4
ATOM	37609	CD1	LEU	D	196	142.511	115.645	27.787	1.00	59.41	DS4
ATOM	37610	CD2	LEU	D	196	144.234	115.711	29.617	1.00	59.41	DS4
ATOM	37611	C	LEU	D	196	145.880	119.314	28.079	1.00	66.35	DS4
ATOM	37612	O	LEU	D	196	145.678	120.094	27.155	1.00	66.35	DS4
ATOM	37613	N	PRO	D	197	147.110	119.041	28.532	1.00	59.14	DS4
ATOM	37614	CD	PRO	D	197	147.462	118.063	29.575	1.00	76.70	DS4
ATOM	37615	CA	PRO	D	197	148.318	119.627	27.952	1.00	59.14	DS4
ATOM	37616	CB	PRO	D	197	149.347	119.406	29.041	1.00	76.70	DS4
ATOM	37617	CG	PRO	D	197	148.993	118.017	29.479	1.00	76.70	DS4
ATOM	37618	C	PRO	D	197	148.597	118.756	26.738	1.00	59.14	DS4
ATOM	37619	O	PRO	D	197	149.715	118.284	26.528	1.00	59.14	DS4
ATOM	37620	N	VAL	D	198	147.552	118.531	25.955	1.00	65.87	DS4
ATOM	37621	CA	VAL	D	198	147.656	117.680	24.793	1.00	65.87	DS4
ATOM	37622	CB	VAL	D	198	146.803	116.430	24.982	1.00	74.02	DS4
ATOM	37623	CG1	VAL	D	198	147.019	115.480	23.822	1.00	74.02	DS4
ATOM	37624	CG2	VAL	D	198	147.148	115.773	26.310	1.00	74.02	DS4
ATOM	37625	C	VAL	D	198	147.222	118.359	23.515	1.00	65.87	DS4
ATOM	37626	O	VAL	D	198	146.184	119.004	23.464	1.00	65.87	DS4
ATOM	37627	N	GLN	D	199	148.024	118.187	22.476	1.00	65.25	DS4
ATOM	37628	CA	GLN	D	199	147.741	118.759	21.174	1.00	65.25	DS4
ATOM	37629	CB	GLN	D	199	149.018	119.390	20.626	1.00108.00	DS4	
ATOM	37630	CG	GLN	D	199	148.800	120.514	19.653	1.00108.00	DS4	
ATOM	37631	CD	GLN	D	199	147.969	120.101	18.468	1.00	77.22	DS4
ATOM	37632	OE1	GLN	D	199	148.352	120.335	17.325	1.00	77.22	DS4
ATOM	37633	NE2	GLN	D	199	146.814	119.497	18.728	1.00	77.22	DS4
ATOM	37634	C	GLN	D	199	147.302	117.590	20.287	1.00	65.25	DS4
ATOM	37635	O	GLN	D	199	148.053	117.153	19.416	1.00	65.25	DS4
ATOM	37636	N	GLU	D	200	146.087	117.092	20.504	1.00	53.53	DS4
ATOM	37637	CA	GLU	D	200	145.585	115.946	19.749	1.00	53.53	DS4
ATOM	37638	CB	GLU	D	200	144.078	115.764	19.936	1.00	66.70	DS4
ATOM	37639	CG	GLU	D	200	143.264	116.946	19.509	1.00	66.70	DS4
ATOM	37640	CD	GLU	D	200	143.145	117.984	20.603	1.00	66.70	DS4
ATOM	37641	OE1	GLU	D	200	144.056	118.069	21.457	1.00	66.70	DS4
ATOM	37642	OE2	GLU	D	200	142.142	118.725	20.605	1.00	66.70	DS4



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ATOM	37643	C	GLU	D	200	145.885	115.941	18.264	1.00	53.53	DS4
ATOM	37644	O	GLU	D	200	146.038	114.865	17.687	1.00	53.53	DS4
ATOM	37645	N	ASN	D	201	145.968	117.115	17.635	1.00	78.75	DS4
ATOM	37646	CA	ASN	D	201	146.260	117.176	16.195	1.00	78.75	DS4
ATOM	37647	CB	ASN	D	201	146.499	118.624	15.739	1.00	100.65	DS4
ATOM	37648	CG	ASN	D	201	145.996	118.890	14.315	1.00	100.65	DS4
ATOM	37649	OD1	ASN	D	201	144.811	118.702	14.020	1.00	100.65	DS4
ATOM	37650	ND2	ASN	D	201	146.894	119.334	13.433	1.00	100.65	DS4
ATOM	37651	C	ASN	D	201	147.499	116.318	15.908	1.00	78.75	DS4
ATOM	37652	O	ASN	D	201	147.529	115.548	14.950	1.00	78.75	DS4
ATOM	37653	N	LEU	D	202	148.519	116.446	16.749	1.00	44.08	DS4
ATOM	37654	CA	LEU	D	202	149.716	115.646	16.583	1.00	44.08	DS4
ATOM	37655	CB	LEU	D	202	150.766	116.026	17.606	1.00	47.01	DS4
ATOM	37656	CG	LEU	D	202	151.155	117.494	17.667	1.00	47.01	DS4
ATOM	37657	CD1	LEU	D	202	152.216	117.658	18.736	1.00	47.01	DS4
ATOM	37658	CD2	LEU	D	202	151.677	117.963	16.315	1.00	47.01	DS4
ATOM	37659	C	LEU	D	202	149.331	114.200	16.813	1.00	44.08	DS4
ATOM	37660	O	LEU	D	202	149.760	113.319	16.092	1.00	44.08	DS4
ATOM	37661	N	VAL	D	203	148.515	113.942	17.821	1.00	47.83	DS4
ATOM	37662	CA	VAL	D	203	148.145	112.561	18.071	1.00	47.83	DS4
ATOM	37663	CB	VAL	D	203	147.238	112.420	19.329	1.00	40.55	DS4
ATOM	37664	CG1	VAL	D	203	146.771	110.983	19.486	1.00	40.55	DS4
ATOM	37665	CG2	VAL	D	203	148.020	112.828	20.575	1.00	40.55	DS4
ATOM	37666	C	VAL	D	203	147.470	111.975	16.843	1.00	47.83	DS4
ATOM	37667	O	VAL	D	203	147.744	110.837	16.471	1.00	47.83	DS4
ATOM	37668	N	ILE	D	204	146.605	112.749	16.195	1.00	33.83	DS4
ATOM	37669	CA	ILE	D	204	145.935	112.254	14.998	1.00	33.83	DS4
ATOM	37670	CB	ILE	D	204	144.960	113.270	14.436	1.00	55.43	DS4
ATOM	37671	CG2	ILE	D	204	144.225	112.673	13.258	1.00	55.43	DS4
ATOM	37672	CG1	ILE	D	204	143.973	113.690	15.514	1.00	55.43	DS4
ATOM	37673	CD1	ILE	D	204	143.076	114.852	15.083	1.00	55.43	DS4
ATOM	37674	C	ILE	D	204	146.990	111.990	13.930	1.00	33.83	DS4
ATOM	37675	O	ILE	D	204	147.090	110.883	13.395	1.00	33.83	DS4
ATOM	37676	N	GLU	D	205	147.783	113.021	13.646	1.00	59.23	DS4
ATOM	37677	CA	GLU	D	205	148.840	112.947	12.651	1.00	59.23	DS4
ATOM	37678	CB	GLU	D	205	149.677	114.222	12.686	1.00	82.63	DS4
ATOM	37679	CG	GLU	D	205	149.008	115.430	12.069	1.00	82.63	DS4
ATOM	37680	CD	GLU	D	205	149.859	116.681	12.198	1.00	82.63	DS4
ATOM	37681	OE1	GLU	D	205	149.476	117.735	11.633	1.00	82.63	DS4
ATOM	37682	OE2	GLU	D	205	150.911	116.606	12.875	1.00	82.63	DS4
ATOM	37683	C	GLU	D	205	149.754	111.739	12.842	1.00	59.23	DS4
ATOM	37684	O	GLU	D	205	150.120	111.060	11.879	1.00	59.23	DS4
ATOM	37685	N	PHE	D	206	150.119	111.478	14.089	1.00	44.81	DS4
ATOM	37686	CA	PHE	D	206	151.001	110.374	14.438	1.00	44.81	DS4
ATOM	37687	CB	PHE	D	206	151.274	110.413	15.938	1.00	39.04	DS4
ATOM	37688	CG	PHE	D	206	151.936	109.193	16.457	1.00	39.04	DS4
ATOM	37689	CD1	PHE	D	206	153.311	109.106	16.495	1.00	39.04	DS4
ATOM	37690	CD2	PHE	D	206	151.177	108.105	16.859	1.00	39.04	DS4
ATOM	37691	CE1	PHE	D	206	153.932	107.949	16.920	1.00	39.04	DS4
ATOM	37692	CE2	PHE	D	206	151.782	106.949	17.283	1.00	39.04	DS4
ATOM	37693	CZ	PHE	D	206	153.166	106.868	17.315	1.00	39.04	DS4
ATOM	37694	C	PHE	D	206	150.430	109.012	14.057	1.00	44.81	DS4
ATOM	37695	O	PHE	D	206	151.176	108.079	13.750	1.00	44.81	DS4
ATOM	37696	N	TYR	D	207	149.112	108.879	14.103	1.00	36.42	DS4
ATOM	37697	CA	TYR	D	207	148.510	107.610	13.738	1.00	36.42	DS4
ATOM	37698	CB	TYR	D	207	147.243	107.350	14.552	1.00	49.11	DS4
ATOM	37699	CG	TYR	D	207	147.528	106.860	15.938	1.00	49.11	DS4
ATOM	37700	CD1	TYR	D	207	146.812	107.341	17.031	1.00	49.11	DS4
ATOM	37701	CE1	TYR	D	207	147.092	106.897	18.329	1.00	49.11	DS4
ATOM	37702	CD2	TYR	D	207	148.525	105.920	16.166	1.00	49.11	DS4
ATOM	37703	CE2	TYR	D	207	148.809	105.465	17.452	1.00	49.11	DS4
ATOM	37704	CZ	TYR	D	207	148.090	105.955	18.529	1.00	49.11	DS4
ATOM	37705	OH	TYR	D	207	148.362	105.489	19.798	1.00	49.11	DS4
ATOM	37706	C	TYR	D	207	148.168	107.643	12.265	1.00	36.42	DS4
ATOM	37707	O	TYR	D	207	147.548	106.708	11.743	1.00	36.42	DS4
ATOM	37708	N	SER	D	208	148.547	108.736	11.605	1.00	59.78	DS4
ATOM	37709	CA	SER	D	208	148.291	108.900	10.178	1.00	59.78	DS4
ATOM	37710	CB	SER	D	208	148.150	110.378	9.812	1.00	148.74	DS4
ATOM	37711	OG	SER	D	208	146.930	110.909	10.303	1.00	148.74	DS4
ATOM	37712	C	SER	D	208	149.459	108.300	9.440	1.00	59.78	DS4
ATOM	37713	O	SER	D	208	149.310	107.783	8.329	1.00	59.78	DS4
ATOM	37714	N	ARG	D	209	150.618	108.367	10.088	1.00	106.38	DS4
ATOM	37715	CA	ARG	D	209	151.863	107.837	9.552	1.00	106.38	DS4
ATOM	37716	CB	ARG	D	209	152.966	107.912	10.607	1.00	136.80	DS4
ATOM	37717	CG	ARG	D	209	154.340	107.588	10.075	1.00	136.80	DS4
ATOM	37718	CD	ARG	D	209	155.403	107.707	11.150	1.00	136.80	DS4
ATOM	37719	NE	ARG	D	209	156.736	107.482	10.597	1.00	136.80	DS4



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ATOM	37720	CZ	ARG	D	209	157.122	106.355	10.003	1.00136.80	DS4
ATOM	37721	NH1	ARG	D	209	156.275	105.338	9.886	1.00136.80	DS4
ATOM	37722	NH2	ARG	D	209	158.352	106.249	9.514	1.00136.80	DS4
ATOM	37723	C	ARG	D	209	151.655	106.393	9.148	1.00106.38	DS4
ATOM	37724	O	ARG	D	209	151.932	106.064	7.974	1.00106.38	DS4
ATOM	37725	OXT	ARG	D	209	151.217	105.614	10.023	1.00 99.76	DS4
TER	37725		ARG	D	209					DS4
ATOM	37726	CB	ASP	E	5	155.307	137.980	14.078	1.00175.03	ES5
ATOM	37727	CG	ASP	E	5	156.706	138.008	14.667	1.00175.03	ES5
ATOM	37728	OD1	ASP	E	5	156.831	137.906	15.905	1.00175.03	ES5
ATOM	37729	OD2	ASP	E	5	157.680	138.136	13.894	1.00175.03	ES5
ATOM	37730	C	ASP	E	5	155.038	135.576	13.364	1.00160.15	ES5
ATOM	37731	O	ASP	E	5	154.303	134.622	13.099	1.00160.15	ES5
ATOM	37732	N	ASP	E	5	154.756	136.256	15.771	1.00160.15	ES5
ATOM	37733	CA	ASP	E	5	154.574	136.658	14.347	1.00160.15	ES5
ATOM	37734	N	PHE	E	6	156.249	135.726	12.823	1.00 80.41	ES5
ATOM	37735	CA	PHE	E	6	156.793	134.758	11.868	1.00 80.41	ES5
ATOM	37736	CB	PHE	E	6	157.641	135.466	10.805	1.00 74.18	ES5
ATOM	37737	CG	PHE	E	6	156.837	136.150	9.727	1.00 74.18	ES5
ATOM	37738	CD1	PHE	E	6	157.451	137.045	8.855	1.00 74.18	ES5
ATOM	37739	CD2	PHE	E	6	155.475	135.907	9.582	1.00 74.18	ES5
ATOM	37740	CE1	PHE	E	6	156.723	137.692	7.859	1.00 74.18	ES5
ATOM	37741	CE2	PHE	E	6	154.735	136.550	8.587	1.00 74.18	ES5
ATOM	37742	CZ	PHE	E	6	155.361	137.445	7.727	1.00 74.18	ES5
ATOM	37743	C	PHE	E	6	157.646	133.696	12.545	1.00 80.41	ES5
ATOM	37744	O	PHE	E	6	158.713	133.995	13.079	1.00 80.41	ES5
ATOM	37745	N	GLU	E	7	157.166	132.456	12.524	1.00 63.06	ES5
ATOM	37746	CA	GLU	E	7	157.898	131.347	13.115	1.00 63.06	ES5
ATOM	37747	CB	GLU	E	7	156.938	130.269	13.617	1.00134.21	ES5
ATOM	37748	CG	GLU	E	7	157.633	129.090	14.280	1.00134.21	ES5
ATOM	37749	CD	GLU	E	7	156.655	128.032	14.767	1.00134.21	ES5
ATOM	37750	OE1	GLU	E	7	157.108	126.982	15.281	1.00134.21	ES5
ATOM	37751	OE2	GLU	E	7	155.431	128.251	14.638	1.00134.21	ES5
ATOM	37752	C	GLU	E	7	158.792	130.780	12.022	1.00 63.06	ES5
ATOM	37753	O	GLU	E	7	158.442	130.812	10.836	1.00 63.06	ES5
ATOM	37754	N	GLU	E	8	159.950	130.267	12.418	1.00 72.46	ES5
ATOM	37755	CA	GLU	E	8	160.884	129.714	11.454	1.00 72.46	ES5
ATOM	37756	CB	GLU	E	8	162.267	130.337	11.648	1.00 99.51	ES5
ATOM	37757	CG	GLU	E	8	162.500	131.616	10.868	1.00 99.51	ES5
ATOM	37758	CD	GLU	E	8	163.912	132.153	11.039	1.00 99.51	ES5
ATOM	37759	OE1	GLU	E	8	164.845	131.335	11.191	1.00 99.51	ES5
ATOM	37760	OE2	GLU	E	8	164.098	133.389	11.005	1.00 99.51	ES5
ATOM	37761	C	GLU	E	8	161.018	128.199	11.510	1.00 72.46	ES5
ATOM	37762	O	GLU	E	8	161.116	127.606	12.586	1.00 72.46	ES5
ATOM	37763	N	LYS	E	9	161.005	127.577	10.336	1.00 63.47	ES5
ATOM	37764	CA	LYS	E	9	161.199	126.140	10.238	1.00 63.47	ES5
ATOM	37765	CB	LYS	E	9	159.908	125.431	9.824	1.00110.71	ES5
ATOM	37766	CG	LYS	E	9	158.814	125.570	10.860	1.00110.71	ES5
ATOM	37767	CD	LYS	E	9	157.712	124.535	10.701	1.00110.71	ES5
ATOM	37768	CE	LYS	E	9	158.083	123.211	11.345	1.00110.71	ES5
ATOM	37769	NZ	LYS	E	9	156.943	122.249	11.322	1.00110.71	ES5
ATOM	37770	C	LYS	E	9	162.313	125.885	9.222	1.00 63.47	ES5
ATOM	37771	O	LYS	E	9	162.261	126.361	8.078	1.00 63.47	ES5
ATOM	37772	N	MET	E	10	163.335	125.158	9.670	1.00 55.82	ES5
ATOM	37773	CA	MET	E	10	164.487	124.814	8.843	1.00 55.82	ES5
ATOM	37774	CB	MET	E	10	165.729	124.757	9.736	1.00103.39	ES5
ATOM	37775	CG	MET	E	10	167.040	124.605	9.017	1.00103.39	ES5
ATOM	37776	SD	MET	E	10	167.347	122.889	8.603	1.00103.39	ES5
ATOM	37777	CE	MET	E	10	168.042	122.273	10.146	1.00103.39	ES5
ATOM	37778	C	MET	E	10	164.218	123.471	8.141	1.00 55.82	ES5
ATOM	37779	O	MET	E	10	164.325	122.401	8.743	1.00 55.82	ES5
ATOM	37780	N	ILE	E	11	163.842	123.558	6.867	1.00 77.74	ES5
ATOM	37781	CA	ILE	E	11	163.525	122.403	6.032	1.00 77.74	ES5
ATOM	37782	CB	ILE	E	11	163.064	122.864	4.647	1.00 38.11	ES5
ATOM	37783	CG2	ILE	E	11	163.196	121.741	3.639	1.00 38.11	ES5
ATOM	37784	CG1	ILE	E	11	161.618	123.311	4.733	1.00 38.11	ES5
ATOM	37785	CD1	ILE	E	11	160.689	122.184	5.150	1.00 38.11	ES5
ATOM	37786	C	ILE	E	11	164.651	121.391	5.853	1.00 77.74	ES5
ATOM	37787	O	ILE	E	11	164.510	120.229	6.242	1.00 77.74	ES5
ATOM	37788	N	LEU	E	12	165.748	121.822	5.229	1.00 56.24	ES5
ATOM	37789	CA	LEU	E	12	166.903	120.953	5.018	1.00 56.24	ES5
ATOM	37790	CB	LEU	E	12	166.666	119.985	3.839	1.00 57.40	ES5
ATOM	37791	CG	LEU	E	12	167.167	120.193	2.393	1.00 57.40	ES5
ATOM	37792	CD1	LEU	E	12	166.546	121.426	1.787	1.00 57.40	ES5
ATOM	37793	CD2	LEU	E	12	168.678	120.292	2.371	1.00 57.40	ES5
ATOM	37794	C	LEU	E	12	168.141	121.782	4.754	1.00 56.24	ES5
ATOM	37795	O	LEU	E	12	168.063	122.843	4.143	1.00 56.24	ES5



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ATOM	37796	N	ILE	E	13	169.279	121.308	5.244	1.00	64.24	ES5
ATOM	37797	CA	ILE	E	13	170.539	121.993	5.006	1.00	64.24	ES5
ATOM	37798	CB	ILE	E	13	171.059	122.748	6.230	1.00	50.21	ES5
ATOM	37799	CG2	ILE	E	13	170.233	123.999	6.445	1.00	50.21	ES5
ATOM	37800	CG1	ILE	E	13	171.043	121.844	7.445	1.00	50.21	ES5
ATOM	37801	CD1	ILE	E	13	171.602	122.517	8.648	1.00	50.21	ES5
ATOM	37802	C	ILE	E	13	171.553	120.955	4.601	1.00	64.24	ES5
ATOM	37803	O	ILE	E	13	171.659	119.904	5.233	1.00	64.24	ES5
ATOM	37804	N	ARG	E	14	172.292	121.264	3.539	1.00	49.52	ES5
ATOM	37805	CA	ARG	E	14	173.284	120.355	2.986	1.00	49.52	ES5
ATOM	37806	CB	ARG	E	14	172.847	119.944	1.589	1.00	39.80	ES5
ATOM	37807	CG	ARG	E	14	172.635	121.134	0.670	1.00	39.80	ES5
ATOM	37808	CD	ARG	E	14	171.961	120.699	-0.587	1.00	39.80	ES5
ATOM	37809	NE	ARG	E	14	171.976	121.747	-1.593	1.00	39.80	ES5
ATOM	37810	CZ	ARG	E	14	171.456	121.598	-2.809	1.00	39.80	ES5
ATOM	37811	NH1	ARG	E	14	170.889	120.434	-3.146	1.00	39.80	ES5
ATOM	37812	NH2	ARG	E	14	171.492	122.609	-3.684	1.00	39.80	ES5
ATOM	37813	C	ARG	E	14	174.657	121.000	2.930	1.00	49.52	ES5
ATOM	37814	O	ARG	E	14	174.782	122.234	2.855	1.00	49.52	ES5
ATOM	37815	N	ARG	E	15	175.687	120.159	2.932	1.00	61.53	ES5
ATOM	37816	CA	ARG	E	15	177.034	120.674	2.935	1.00	61.53	ES5
ATOM	37817	CB	ARG	E	15	177.973	119.722	3.668	1.00	57.07	ES5
ATOM	37818	CG	ARG	E	15	179.356	120.318	3.926	1.00	57.07	ES5
ATOM	37819	CD	ARG	E	15	180.275	120.059	2.753	1.00	57.07	ES5
ATOM	37820	NE	ARG	E	15	180.834	118.705	2.768	1.00	57.07	ES5
ATOM	37821	CZ	ARG	E	15	181.719	118.281	3.667	1.00	57.07	ES5
ATOM	37822	NH1	ARG	E	15	182.144	119.104	4.616	1.00	57.07	ES5
ATOM	37823	NH2	ARG	E	15	182.180	117.038	3.623	1.00	57.07	ES5
ATOM	37824	C	ARG	E	15	177.622	121.050	1.600	1.00	61.53	ES5
ATOM	37825	O	ARG	E	15	178.472	121.922	1.559	1.00	61.53	ES5
ATOM	37826	N	THR	E	16	177.215	120.405	0.517	1.00	38.25	ES5
ATOM	37827	CA	THR	E	16	177.736	120.781	-0.815	1.00	38.25	ES5
ATOM	37828	CB	THR	E	16	176.900	121.965	-1.444	1.00	50.17	ES5
ATOM	37829	OG1	THR	E	16	177.410	122.269	-2.745	1.00	50.17	ES5
ATOM	37830	CG2	THR	E	16	176.996	123.239	-0.599	1.00	50.17	ES5
ATOM	37831	C	THR	E	16	179.229	121.166	-0.973	1.00	38.25	ES5
ATOM	37832	O	THR	E	16	179.729	122.093	-0.327	1.00	38.25	ES5
ATOM	37833	N	ALA	E	17	179.920	120.485	-1.889	1.00	76.94	ES5
ATOM	37834	CA	ALA	E	17	181.339	120.752	-2.141	1.00	76.94	ES5
ATOM	37835	CB	ALA	E	17	182.145	119.514	-1.869	1.00	46.02	ES5
ATOM	37836	C	ALA	E	17	181.674	121.279	-3.539	1.00	76.94	ES5
ATOM	37837	O	ALA	E	17	180.885	121.180	-4.475	1.00	76.94	ES5
ATOM	37838	N	ARG	E	18	182.882	121.818	-3.656	1.00	58.30	ES5
ATOM	37839	CA	ARG	E	18	183.382	122.407	-4.891	1.00	58.30	ES5
ATOM	37840	CB	ARG	E	18	183.162	123.904	-4.821	1.00	58.24	ES5
ATOM	37841	CG	ARG	E	18	183.747	124.666	-5.951	1.00	58.24	ES5
ATOM	37842	CD	ARG	E	18	184.704	125.703	-5.409	1.00	58.24	ES5
ATOM	37843	NE	ARG	E	18	184.147	126.381	-4.246	1.00	58.24	ES5
ATOM	37844	CZ	ARG	E	18	184.819	127.252	-3.509	1.00	58.24	ES5
ATOM	37845	NH1	ARG	E	18	186.078	127.558	-3.814	1.00	58.24	ES5
ATOM	37846	NH2	ARG	E	18	184.225	127.807	-2.465	1.00	58.24	ES5
ATOM	37847	C	ARG	E	18	184.876	122.084	-5.027	1.00	58.30	ES5
ATOM	37848	O	ARG	E	18	185.548	121.814	-4.031	1.00	58.30	ES5
ATOM	37849	N	MET	E	19	185.415	122.118	-6.243	1.00	49.96	ES5
ATOM	37850	CA	MET	E	19	186.823	121.767	-6.418	1.00	49.96	ES5
ATOM	37851	CB	MET	E	19	186.981	120.705	-7.489	1.00	48.91	ES5
ATOM	37852	CG	MET	E	19	186.615	119.363	-6.987	1.00	48.91	ES5
ATOM	37853	SD	MET	E	19	187.597	119.015	-5.561	1.00	48.91	ES5
ATOM	37854	CE	MET	E	19	187.614	117.191	-5.682	1.00	48.91	ES5
ATOM	37855	C	MET	E	19	187.827	122.842	-6.711	1.00	49.96	ES5
ATOM	37856	O	MET	E	19	187.551	123.841	-7.385	1.00	49.96	ES5
ATOM	37857	N	GLN	E	20	189.021	122.602	-6.193	1.00	63.76	ES5
ATOM	37858	CA	GLN	E	20	190.140	123.494	-6.382	1.00	63.76	ES5
ATOM	37859	CB	GLN	E	20	190.284	124.474	-5.220	1.00	96.08	ES5
ATOM	37860	CG	GLN	E	20	189.414	125.679	-5.373	1.00	96.08	ES5
ATOM	37861	CD	GLN	E	20	189.573	126.308	-6.740	1.00	96.08	ES5
ATOM	37862	OE1	GLN	E	20	190.660	126.761	-7.099	1.00	96.08	ES5
ATOM	37863	NE2	GLN	E	20	188.491	126.330	-7.519	1.00	96.08	ES5
ATOM	37864	C	GLN	E	20	191.346	122.612	-6.420	1.00	63.76	ES5
ATOM	37865	O	GLN	E	20	191.293	121.450	-6.001	1.00	63.76	ES5
ATOM	37866	N	ALA	E	21	192.427	123.145	-6.966	1.00	78.58	ES5
ATOM	37867	CA	ALA	E	21	193.651	122.395	-6.957	1.00	78.58	ES5
ATOM	37868	CB	ALA	E	21	194.720	123.161	-7.652	1.00	78.03	ES5
ATOM	37869	C	ALA	E	21	193.812	122.493	-5.458	1.00	78.58	ES5
ATOM	37870	O	ALA	E	21	193.333	123.457	-4.856	1.00	78.58	ES5
ATOM	37871	N	GLY	E	22	194.437	121.519	-4.828	1.00	62.01	ES5
ATOM	37872	CA	GLY	E	22	194.561	121.637	-3.391	1.00	62.01	ES5



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ATOM	37873	C	GLY	E	22	193.459	120.910	-2.645	1.00	62.01	ES5
ATOM	37874	O	GLY	E	22	193.739	120.245	-1.641	1.00	62.01	ES5
ATOM	37875	N	GLY	E	23	192.211	121.022	-3.098	1.00	72.65	ES5
ATOM	37876	CA	GLY	E	23	191.160	120.294	-2.400	1.00	72.65	ES5
ATOM	37877	C	GLY	E	23	189.706	120.702	-2.547	1.00	72.65	ES5
ATOM	37878	O	GLY	E	23	189.359	121.595	-3.331	1.00	72.65	ES5
ATOM	37879	N	ARG	E	24	188.855	120.016	-1.782	1.00	67.01	ES5
ATOM	37880	CA	ARG	E	24	187.424	120.275	-1.774	1.00	67.01	ES5
ATOM	37881	CB	ARG	E	24	186.682	119.128	-1.091	1.00	97.30	ES5
ATOM	37882	CG	ARG	E	24	187.054	117.775	-1.613	1.00	97.30	ES5
ATOM	37883	CD	ARG	E	24	186.183	116.685	-1.023	1.00	97.30	ES5
ATOM	37884	NE	ARG	E	24	186.712	115.359	-1.346	1.00	97.30	ES5
ATOM	37885	CZ	ARG	E	24	186.909	114.899	-2.584	1.00	97.30	ES5
ATOM	37886	NH1	ARG	E	24	186.619	115.652	-3.637	1.00	97.30	ES5
ATOM	37887	NH2	ARG	E	24	187.410	113.684	-2.776	1.00	97.30	ES5
ATOM	37888	C	ARG	E	24	187.168	121.568	-1.006	1.00	67.01	ES5
ATOM	37889	O	ARG	E	24	187.842	121.853	-0.011	1.00	67.01	ES5
ATOM	37890	N	ARG	E	25	186.200	122.350	-1.476	1.00	62.02	ES5
ATOM	37891	CA	ARG	E	25	185.848	123.605	-0.831	1.00	62.02	ES5
ATOM	37892	CB	ARG	E	25	186.469	124.764	-1.569	1.00	61.75	ES5
ATOM	37893	CG	ARG	E	25	187.917	124.838	-1.280	1.00	61.75	ES5
ATOM	37894	CD	ARG	E	25	188.353	126.260	-1.240	1.00	61.75	ES5
ATOM	37895	NE	ARG	E	25	189.795	126.332	-1.099	1.00	61.75	ES5
ATOM	37896	CZ	ARG	E	25	190.507	127.440	-1.272	1.00	61.75	ES5
ATOM	37897	NH1	ARG	E	25	189.914	128.594	-1.592	1.00	61.75	ES5
ATOM	37898	NH2	ARG	E	25	191.825	127.374	-1.139	1.00	61.75	ES5
ATOM	37899	C	ARG	E	25	184.352	123.784	-0.709	1.00	62.02	ES5
ATOM	37900	O	ARG	E	25	183.643	124.152	-1.660	1.00	62.02	ES5
ATOM	37901	N	PHE	E	26	183.907	123.547	0.515	1.00	75.85	ES5
ATOM	37902	CA	PHE	E	26	182.518	123.581	0.884	1.00	75.85	ES5
ATOM	37903	CB	PHE	E	26	182.379	122.872	2.198	1.00	52.81	ES5
ATOM	37904	CG	PHE	E	26	183.311	121.730	2.327	1.00	52.81	ES5
ATOM	37905	CD1	PHE	E	26	184.505	121.873	2.999	1.00	52.81	ES5
ATOM	37906	CD2	PHE	E	26	183.009	120.506	1.762	1.00	52.81	ES5
ATOM	37907	CE1	PHE	E	26	185.389	120.795	3.109	1.00	52.81	ES5
ATOM	37908	CE2	PHE	E	26	183.881	119.426	1.865	1.00	52.81	ES5
ATOM	37909	CZ	PHE	E	26	185.068	119.567	2.538	1.00	52.81	ES5
ATOM	37910	C	PHE	E	26	181.782	124.887	0.941	1.00	75.85	ES5
ATOM	37911	O	PHE	E	26	182.355	125.975	0.894	1.00	75.85	ES5
ATOM	37912	N	ARG	E	27	180.474	124.731	1.060	1.00	58.95	ES5
ATOM	37913	CA	ARG	E	27	179.535	125.824	1.112	1.00	58.95	ES5
ATOM	37914	CB	ARG	E	27	179.239	126.262	-0.309	1.00	60.81	ES5
ATOM	37915	CG	ARG	E	27	178.197	127.295	-0.444	1.00	60.81	ES5
ATOM	37916	CD	ARG	E	27	178.485	128.056	-1.690	1.00	60.81	ES5
ATOM	37917	NE	ARG	E	27	179.825	128.611	-1.604	1.00	60.81	ES5
ATOM	37918	CZ	ARG	E	27	180.350	129.437	-2.500	1.00	60.81	ES5
ATOM	37919	NH1	ARG	E	27	179.635	129.797	-3.561	1.00	60.81	ES5
ATOM	37920	NH2	ARG	E	27	181.582	129.918	-2.322	1.00	60.81	ES5
ATOM	37921	C	ARG	E	27	178.313	125.193	1.780	1.00	58.95	ES5
ATOM	37922	O	ARG	E	27	178.300	123.988	2.011	1.00	58.95	ES5
ATOM	37923	N	PHE	E	28	177.296	125.981	2.113	1.00	61.48	ES5
ATOM	37924	CA	PHE	E	28	176.134	125.403	2.769	1.00	61.48	ES5
ATOM	37925	CB	PHE	E	28	176.171	125.657	4.270	1.00	36.96	ES5
ATOM	37926	CG	PHE	E	28	177.283	124.948	4.955	1.00	36.96	ES5
ATOM	37927	CD1	PHE	E	28	178.469	125.611	5.248	1.00	36.96	ES5
ATOM	37928	CD2	PHE	E	28	177.168	123.589	5.249	1.00	36.96	ES5
ATOM	37929	CE1	PHE	E	28	179.531	124.926	5.824	1.00	36.96	ES5
ATOM	37930	CE2	PHE	E	28	178.223	122.885	5.826	1.00	36.96	ES5
ATOM	37931	CZ	PHE	E	28	179.409	123.549	6.116	1.00	36.96	ES5
ATOM	37932	C	PHE	E	28	174.832	125.889	2.237	1.00	61.48	ES5
ATOM	37933	O	PHE	E	28	174.668	127.072	1.928	1.00	61.48	ES5
ATOM	37934	N	GLY	E	29	173.901	124.947	2.156	1.00	61.45	ES5
ATOM	37935	CA	GLY	E	29	172.577	125.249	1.660	1.00	61.45	ES5
ATOM	37936	C	GLY	E	29	171.555	125.115	2.761	1.00	61.45	ES5
ATOM	37937	O	GLY	E	29	171.545	124.120	3.484	1.00	61.45	ES5
ATOM	37938	N	ALA	E	30	170.705	126.130	2.886	1.00	48.52	ES5
ATOM	37939	CA	ALA	E	30	169.660	126.145	3.898	1.00	48.52	ES5
ATOM	37940	CB	ALA	E	30	170.001	127.169	4.984	1.00	74.53	ES5
ATOM	37941	C	ALA	E	30	168.305	126.470	3.267	1.00	48.52	ES5
ATOM	37942	O	ALA	E	30	168.111	127.530	2.653	1.00	48.52	ES5
ATOM	37943	N	LEU	E	31	167.375	125.537	3.412	1.00	39.47	ES5
ATOM	37944	CA	LEU	E	31	166.036	125.720	2.883	1.00	39.47	ES5
ATOM	37945	CB	LEU	E	31	165.553	124.435	2.206	1.00	33.27	ES5
ATOM	37946	CG	LEU	E	31	164.604	124.621	1.016	1.00	33.27	ES5
ATOM	37947	CD1	LEU	E	31	163.207	124.125	1.359	1.00	33.27	ES5
ATOM	37948	CD2	LEU	E	31	164.598	126.088	0.613	1.00	33.27	ES5
ATOM	37949	C	LEU	E	31	165.188	126.044	4.104	1.00	39.47	ES5



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ATOM	37950	O	LEU	E	31	165.061	125.225	5.017	1.00	39.47	ES5
ATOM	37951	N	VAL	E	32	164.612	127.241	4.122	1.00	51.33	ES5
ATOM	37952	CA	VAL	E	32	163.832	127.680	5.270	1.00	51.33	ES5
ATOM	37953	CB	VAL	E	32	164.616	128.771	6.034	1.00	52.19	ES5
ATOM	37954	CG1	VAL	E	32	163.650	129.662	6.813	1.00	52.19	ES5
ATOM	37955	CG2	VAL	E	32	165.652	128.115	6.962	1.00	52.19	ES5
ATOM	37956	C	VAL	E	32	162.398	128.175	5.037	1.00	51.33	ES5
ATOM	37957	O	VAL	E	32	162.104	128.924	4.089	1.00	51.33	ES5
ATOM	37958	N	VAL	E	33	161.514	127.750	5.939	1.00	52.64	ES5
ATOM	37959	CA	VAL	E	33	160.113	128.125	5.881	1.00	52.64	ES5
ATOM	37960	CB	VAL	E	33	159.198	126.908	5.981	1.00	48.32	ES5
ATOM	37961	CG1	VAL	E	33	157.765	127.340	5.770	1.00	48.32	ES5
ATOM	37962	CG2	VAL	E	33	159.599	125.877	4.949	1.00	48.32	ES5
ATOM	37963	C	VAL	E	33	159.774	129.077	7.013	1.00	52.64	ES5
ATOM	37964	O	VAL	E	33	160.223	128.915	8.148	1.00	52.64	ES5
ATOM	37965	N	VAL	E	34	158.971	130.076	6.679	1.00	48.59	ES5
ATOM	37966	CA	VAL	E	34	158.567	131.081	7.633	1.00	48.59	ES5
ATOM	37967	CB	VAL	E	34	159.301	132.379	7.389	1.00	54.54	ES5
ATOM	37968	CG1	VAL	E	34	159.023	133.335	8.503	1.00	54.54	ES5
ATOM	37969	CG2	VAL	E	34	160.770	132.114	7.277	1.00	54.54	ES5
ATOM	37970	C	VAL	E	34	157.090	131.344	7.465	1.00	48.59	ES5
ATOM	37971	O	VAL	E	34	156.620	131.655	6.361	1.00	48.59	ES5
ATOM	37972	N	GLY	E	35	156.362	131.215	8.571	1.00	63.56	ES5
ATOM	37973	CA	GLY	E	35	154.933	131.446	8.548	1.00	63.56	ES5
ATOM	37974	C	GLY	E	35	154.439	132.069	9.836	1.00	63.56	ES5
ATOM	37975	O	GLY	E	35	155.183	132.189	10.811	1.00	63.56	ES5
ATOM	37976	N	ASP	E	36	153.175	132.479	9.821	1.00	67.09	ES5
ATOM	37977	CA	ASP	E	36	152.521	133.083	10.974	1.00	67.09	ES5
ATOM	37978	CB	ASP	E	36	152.055	134.495	10.623	1.00	65.93	ES5
ATOM	37979	CG	ASP	E	36	150.997	134.505	9.526	1.00	65.93	ES5
ATOM	37980	OD1	ASP	E	36	150.672	133.424	8.998	1.00	65.93	ES5
ATOM	37981	OD2	ASP	E	36	150.483	135.591	9.187	1.00	65.93	ES5
ATOM	37982	C	ASP	E	36	151.311	132.205	11.312	1.00	67.09	ES5
ATOM	37983	O	ASP	E	36	150.451	132.578	12.106	1.00	67.09	ES5
ATOM	37984	N	ARG	E	37	151.256	131.031	10.693	1.00	62.58	ES5
ATOM	37985	CA	ARG	E	37	150.151	130.111	10.903	1.00	62.58	ES5
ATOM	37986	CB	ARG	E	37	150.239	129.498	12.296	1.00	74.14	ES5
ATOM	37987	CG	ARG	E	37	151.494	128.658	12.505	1.00	74.14	ES5
ATOM	37988	CD	ARG	E	37	151.666	128.284	13.966	1.00	74.14	ES5
ATOM	37989	NE	ARG	E	37	152.859	127.476	14.221	1.00	74.14	ES5
ATOM	37990	CZ	ARG	E	37	152.979	126.187	13.918	1.00	74.14	ES5
ATOM	37991	NH1	ARG	E	37	151.977	125.535	13.336	1.00	74.14	ES5
ATOM	37992	NH2	ARG	E	37	154.101	125.543	14.217	1.00	74.14	ES5
ATOM	37993	C	ARG	E	37	148.868	130.902	10.751	1.00	62.58	ES5
ATOM	37994	O	ARG	E	37	147.914	130.695	11.484	1.00	62.58	ES5
ATOM	37995	N	GLN	E	38	148.866	131.815	9.785	1.00	60.20	ES5
ATOM	37996	CA	GLN	E	38	147.724	132.671	9.509	1.00	60.20	ES5
ATOM	37997	CB	GLN	E	38	147.881	134.003	10.236	1.00	92.13	ES5
ATOM	37998	CG	GLN	E	38	146.672	134.447	11.013	1.00	92.13	ES5
ATOM	37999	CD	GLN	E	38	146.650	133.826	12.380	1.00	92.13	ES5
ATOM	38000	OE1	GLN	E	38	147.594	133.993	13.152	1.00	92.13	ES5
ATOM	38001	NE2	GLN	E	38	145.581	133.097	12.693	1.00	92.13	ES5
ATOM	38002	C	GLN	E	38	147.656	132.963	8.021	1.00	60.20	ES5
ATOM	38003	O	GLN	E	38	147.510	134.116	7.626	1.00	60.20	ES5
ATOM	38004	N	GLY	E	39	147.775	131.941	7.187	1.00	86.88	ES5
ATOM	38005	CA	GLY	E	39	147.723	132.186	5.758	1.00	86.88	ES5
ATOM	38006	C	GLY	E	39	148.849	133.062	5.215	1.00	86.88	ES5
ATOM	38007	O	GLY	E	39	148.685	133.710	4.181	1.00	86.88	ES5
ATOM	38008	N	ARG	E	40	149.986	133.099	5.911	1.00	67.07	ES5
ATOM	38009	CA	ARG	E	40	151.147	133.873	5.471	1.00	67.07	ES5
ATOM	38010	CB	ARG	E	40	151.350	135.104	6.351	1.00	83.76	ES5
ATOM	38011	CG	ARG	E	40	150.327	136.185	6.125	1.00	83.76	ES5
ATOM	38012	CD	ARG	E	40	150.694	137.482	6.843	1.00	83.76	ES5
ATOM	38013	NE	ARG	E	40	151.958	138.067	6.386	1.00	83.76	ES5
ATOM	38014	CZ	ARG	E	40	152.207	138.464	5.137	1.00	83.76	ES5
ATOM	38015	NH1	ARG	E	40	151.282	138.345	4.189	1.00	83.76	ES5
ATOM	38016	NH2	ARG	E	40	153.391	138.988	4.836	1.00	83.76	ES5
ATOM	38017	C	ARG	E	40	152.406	133.012	5.535	1.00	67.07	ES5
ATOM	38018	O	ARG	E	40	152.933	132.774	6.624	1.00	67.07	ES5
ATOM	38019	N	VAL	E	41	152.890	132.538	4.384	1.00	42.59	ES5
ATOM	38020	CA	VAL	E	41	154.106	131.718	4.375	1.00	42.59	ES5
ATOM	38021	CB	VAL	E	41	153.819	130.254	4.040	1.00	41.25	ES5
ATOM	38022	CG1	VAL	E	41	154.500	129.366	5.059	1.00	41.25	ES5
ATOM	38023	CG2	VAL	E	41	152.330	130.007	3.976	1.00	41.25	ES5
ATOM	38024	C	VAL	E	41	155.157	132.186	3.385	1.00	42.59	ES5
ATOM	38025	O	VAL	E	41	154.832	132.752	2.336	1.00	42.59	ES5
ATOM	38026	N	GLY	E	42	156.416	131.918	3.723	1.00	60.55	ES5



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ATOM	38027	CA	GLY	E	42	157.531	132.300	2.872	1.00	60.55	ES5
ATOM	38028	C	GLY	E	42	158.658	131.283	2.929	1.00	60.55	ES5
ATOM	38029	O	GLY	E	42	159.077	130.851	4.011	1.00	60.55	ES5
ATOM	38030	N	LEU	E	43	159.159	130.911	1.754	1.00	63.25	ES5
ATOM	38031	CA	LEU	E	43	160.221	129.918	1.641	1.00	63.25	ES5
ATOM	38032	CB	LEU	E	43	159.816	128.857	0.626	1.00	36.46	ES5
ATOM	38033	CG	LEU	E	43	160.359	127.442	0.823	1.00	36.46	ES5
ATOM	38034	CD1	LEU	E	43	159.793	126.545	-0.276	1.00	36.46	ES5
ATOM	38035	CD2	LEU	E	43	161.873	127.451	0.819	1.00	36.46	ES5
ATOM	38036	C	LEU	E	43	161.517	130.549	1.184	1.00	63.25	ES5
ATOM	38037	O	LEU	E	43	161.530	131.346	0.252	1.00	63.25	ES5
ATOM	38038	N	GLY	E	44	162.618	130.178	1.817	1.00	53.92	ES5
ATOM	38039	CA	GLY	E	44	163.883	130.757	1.414	1.00	53.92	ES5
ATOM	38040	C	GLY	E	44	165.033	129.775	1.362	1.00	53.92	ES5
ATOM	38041	O	GLY	E	44	165.196	128.914	2.236	1.00	53.92	ES5
ATOM	38042	N	PHE	E	45	165.841	129.892	0.323	1.00	88.20	ES5
ATOM	38043	CA	PHE	E	45	166.988	129.018	0.202	1.00	88.20	ES5
ATOM	38044	CB	PHE	E	45	166.892	128.181	-1.053	1.00	62.96	ES5
ATOM	38045	CG	PHE	E	45	167.916	127.107	-1.121	1.00	62.96	ES5
ATOM	38046	CD1	PHE	E	45	167.977	126.139	-0.136	1.00	62.96	ES5
ATOM	38047	CD2	PHE	E	45	168.813	127.053	-2.172	1.00	62.96	ES5
ATOM	38048	CE1	PHE	E	45	168.918	125.129	-0.201	1.00	62.96	ES5
ATOM	38049	CE2	PHE	E	45	169.757	126.046	-2.243	1.00	62.96	ES5
ATOM	38050	CZ	PHE	E	45	169.811	125.082	-1.258	1.00	62.96	ES5
ATOM	38051	C	PHE	E	45	168.222	129.888	0.138	1.00	88.20	ES5
ATOM	38052	O	PHE	E	45	168.488	130.523	-0.878	1.00	88.20	ES5
ATOM	38053	N	GLY	E	46	168.970	129.917	1.233	1.00	51.80	ES5
ATOM	38054	CA	GLY	E	46	170.158	130.742	1.291	1.00	51.80	ES5
ATOM	38055	C	GLY	E	46	171.409	129.925	1.480	1.00	51.80	ES5
ATOM	38056	O	GLY	E	46	171.467	128.990	2.297	1.00	51.80	ES5
ATOM	38057	N	LYS	E	47	172.417	130.290	0.702	1.00	83.24	ES5
ATOM	38058	CA	LYS	E	47	173.687	129.603	0.745	1.00	83.24	ES5
ATOM	38059	CB	LYS	E	47	174.152	129.247	-0.664	1.00	48.74	ES5
ATOM	38060	CG	LYS	E	47	173.134	128.502	-1.505	1.00	48.74	ES5
ATOM	38061	CD	LYS	E	47	172.269	129.467	-2.263	1.00	48.74	ES5
ATOM	38062	CE	LYS	E	47	171.470	128.776	-3.346	1.00	48.74	ES5
ATOM	38063	NZ	LYS	E	47	170.889	129.789	-4.289	1.00	48.74	ES5
ATOM	38064	C	LYS	E	47	174.708	130.506	1.383	1.00	83.24	ES5
ATOM	38065	O	LYS	E	47	174.592	131.729	1.318	1.00	83.24	ES5
ATOM	38066	N	ALA	E	48	175.711	129.893	1.998	1.00	51.27	ES5
ATOM	38067	CA	ALA	E	48	176.780	130.638	2.642	1.00	51.27	ES5
ATOM	38068	CB	ALA	E	48	176.210	131.549	3.723	1.00	103.51	ES5
ATOM	38069	C	ALA	E	48	177.811	129.689	3.240	1.00	51.27	ES5
ATOM	38070	O	ALA	E	48	177.526	128.515	3.488	1.00	51.27	ES5
ATOM	38071	N	PRO	E	49	179.035	130.189	3.449	1.00	53.80	ES5
ATOM	38072	CD	PRO	E	49	179.466	131.507	2.957	1.00	45.87	ES5
ATOM	38073	CA	PRO	E	49	180.170	129.456	4.015	1.00	53.80	ES5
ATOM	38074	CB	PRO	E	49	181.279	130.508	4.053	1.00	45.87	ES5
ATOM	38075	CG	PRO	E	49	180.537	131.839	3.930	1.00	45.87	ES5
ATOM	38076	C	PRO	E	49	179.956	128.779	5.381	1.00	53.80	ES5
ATOM	38077	O	PRO	E	49	180.670	127.843	5.730	1.00	53.80	ES5
ATOM	38078	N	GLU	E	50	178.993	129.240	6.165	1.00	69.18	ES5
ATOM	38079	CA	GLU	E	50	178.756	128.608	7.454	1.00	69.18	ES5
ATOM	38080	CB	GLU	E	50	179.249	129.486	8.598	1.00	174.76	ES5
ATOM	38081	CG	GLU	E	50	180.715	129.818	8.546	1.00	174.76	ES5
ATOM	38082	CD	GLU	E	50	181.172	130.522	9.801	1.00	174.76	ES5
ATOM	38083	OE1	GLU	E	50	180.488	131.479	10.223	1.00	174.76	ES5
ATOM	38084	OE2	GLU	E	50	182.213	130.120	10.363	1.00	174.76	ES5
ATOM	38085	C	GLU	E	50	177.282	128.366	7.629	1.00	69.18	ES5
ATOM	38086	O	GLU	E	50	176.464	129.245	7.353	1.00	69.18	ES5
ATOM	38087	N	VAL	E	51	176.946	127.174	8.096	1.00	48.28	ES5
ATOM	38088	CA	VAL	E	51	175.553	126.810	8.323	1.00	48.28	ES5
ATOM	38089	CB	VAL	E	51	175.484	125.611	9.250	1.00	40.13	ES5
ATOM	38090	CG1	VAL	E	51	174.303	124.736	8.863	1.00	40.13	ES5
ATOM	38091	CG2	VAL	E	51	176.813	124.845	9.189	1.00	40.13	ES5
ATOM	38092	C	VAL	E	51	174.737	127.973	8.924	1.00	48.28	ES5
ATOM	38093	O	VAL	E	51	173.623	128.274	8.482	1.00	48.28	ES5
ATOM	38094	N	PRO	E	52	175.285	128.636	9.948	1.00	49.01	ES5
ATOM	38095	CD	PRO	E	52	176.445	128.229	10.758	1.00	85.39	ES5
ATOM	38096	CA	PRO	E	52	174.599	129.756	10.580	1.00	49.01	ES5
ATOM	38097	CB	PRO	E	52	175.623	130.246	11.582	1.00	85.39	ES5
ATOM	38098	CG	PRO	E	52	176.204	128.974	12.055	1.00	85.39	ES5
ATOM	38099	C	PRO	E	52	174.204	130.834	9.587	1.00	49.01	ES5
ATOM	38100	O	PRO	E	52	173.011	131.044	9.339	1.00	49.01	ES5
ATOM	38101	N	LEU	E	53	175.196	131.518	9.018	1.00	42.83	ES5
ATOM	38102	CA	LEU	E	53	174.889	132.585	8.063	1.00	42.83	ES5
ATOM	38103	CB	LEU	E	53	176.142	133.067	7.338	1.00	73.05	ES5



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ATOM	38104	CG	LEU	E	53	177.465	133.161	8.078	1.00	73.05	ESS
ATOM	38105	CD1	LEU	E	53	178.371	134.089	7.281	1.00	73.05	ESS
ATOM	38106	CD2	LEU	E	53	177.265	133.693	9.479	1.00	73.05	ESS
ATOM	38107	C	LEU	E	53	173.909	132.068	7.018	1.00	42.83	ESS
ATOM	38108	O	LEU	E	53	173.035	132.801	6.524	1.00	42.83	ESS
ATOM	38109	N	ALA	E	54	174.082	130.792	6.692	1.00	41.94	ESS
ATOM	38110	CA	ALA	E	54	173.262	130.130	5.707	1.00	41.94	ESS
ATOM	38111	CB	ALA	E	54	173.643	128.676	5.640	1.00	48.46	ESS
ATOM	38112	C	ALA	E	54	171.802	130.276	6.088	1.00	41.94	ESS
ATOM	38113	O	ALA	E	54	171.003	130.890	5.364	1.00	41.94	ESS
ATOM	38114	N	VAL	E	55	171.474	129.711	7.245	1.00	41.30	ESS
ATOM	38115	CA	VAL	E	55	170.119	129.739	7.775	1.00	41.30	ESS
ATOM	38116	CB	VAL	E	55	170.078	129.022	9.121	1.00	57.41	ESS
ATOM	38117	CG1	VAL	E	55	168.646	128.738	9.518	1.00	57.41	ESS
ATOM	38118	CG2	VAL	E	55	170.871	127.730	9.023	1.00	57.41	ESS
ATOM	38119	C	VAL	E	55	169.639	131.175	7.936	1.00	41.30	ESS
ATOM	38120	O	VAL	E	55	168.502	131.509	7.602	1.00	41.30	ESS
ATOM	38121	N	GLN	E	56	170.520	132.031	8.442	1.00	60.73	ESS
ATOM	38122	CA	GLN	E	56	170.165	133.431	8.614	1.00	60.73	ESS
ATOM	38123	CB	GLN	E	56	171.364	134.227	9.126	1.00	178.16	ESS
ATOM	38124	CG	GLN	E	56	171.128	134.783	10.512	1.00	178.16	ESS
ATOM	38125	CD	GLN	E	56	170.413	133.784	11.406	1.00	178.16	ESS
ATOM	38126	OE1	GLN	E	56	170.922	132.690	11.661	1.00	178.16	ESS
ATOM	38127	NE2	GLN	E	56	169.221	134.150	11.877	1.00	178.16	ESS
ATOM	38128	C	GLN	E	56	169.695	133.982	7.281	1.00	60.73	ESS
ATOM	38129	O	GLN	E	56	168.573	134.480	7.161	1.00	60.73	ESS
ATOM	38130	N	LYS	E	57	170.560	133.862	6.278	1.00	62.72	ESS
ATOM	38131	CA	LYS	E	57	170.256	134.338	4.936	1.00	62.72	ESS
ATOM	38132	CB	LYS	E	57	171.430	134.012	3.997	1.00	70.09	ESS
ATOM	38133	CG	LYS	E	57	171.571	134.952	2.788	1.00	70.09	ESS
ATOM	38134	CD	LYS	E	57	172.779	134.601	1.900	1.00	70.09	ESS
ATOM	38135	CE	LYS	E	57	174.113	134.823	2.618	1.00	70.09	ESS
ATOM	38136	NZ	LYS	E	57	175.299	134.378	1.816	1.00	70.09	ESS
ATOM	38137	C	LYS	E	57	168.966	133.662	4.456	1.00	62.72	ESS
ATOM	38138	O	LYS	E	57	168.136	134.270	3.774	1.00	62.72	ESS
ATOM	38139	N	ALA	E	58	168.798	132.402	4.843	1.00	41.29	ESS
ATOM	38140	CA	ALA	E	58	167.618	131.637	4.457	1.00	41.29	ESS
ATOM	38141	CB	ALA	E	58	167.734	130.208	4.980	1.00	112.31	ESS
ATOM	38142	C	ALA	E	58	166.335	132.284	4.972	1.00	41.29	ESS
ATOM	38143	O	ALA	E	58	165.383	132.476	4.213	1.00	41.29	ESS
ATOM	38144	N	GLY	E	59	166.311	132.605	6.264	1.00	54.76	ESS
ATOM	38145	CA	GLY	E	59	165.139	133.238	6.843	1.00	54.76	ESS
ATOM	38146	C	GLY	E	59	164.893	134.566	6.149	1.00	54.76	ESS
ATOM	38147	O	GLY	E	59	163.766	134.919	5.799	1.00	54.76	ESS
ATOM	38148	N	TYR	E	60	165.973	135.304	5.939	1.00	64.63	ESS
ATOM	38149	CA	TYR	E	60	165.888	136.594	5.280	1.00	64.63	ESS
ATOM	38150	CB	TYR	E	60	167.291	137.184	5.134	1.00	106.56	ESS
ATOM	38151	CG	TYR	E	60	167.357	138.495	4.386	1.00	106.56	ESS
ATOM	38152	CD1	TYR	E	60	166.479	139.539	4.676	1.00	106.56	ESS
ATOM	38153	CE1	TYR	E	60	166.577	140.761	4.017	1.00	106.56	ESS
ATOM	38154	CD2	TYR	E	60	168.330	138.704	3.416	1.00	106.56	ESS
ATOM	38155	CE2	TYR	E	60	168.437	139.917	2.751	1.00	106.56	ESS
ATOM	38156	CZ	TYR	E	60	167.564	140.944	3.052	1.00	106.56	ESS
ATOM	38157	OH	TYR	E	60	167.701	142.150	2.392	1.00	106.56	ESS
ATOM	38158	C	TYR	E	60	165.222	136.462	3.917	1.00	64.63	ESS
ATOM	38159	O	TYR	E	60	164.179	137.065	3.672	1.00	64.63	ESS
ATOM	38160	N	TYR	E	61	165.827	135.669	3.036	1.00	83.27	ESS
ATOM	38161	CA	TYR	E	61	165.279	135.469	1.696	1.00	83.27	ESS
ATOM	38162	CB	TYR	E	61	166.134	134.492	0.876	1.00	97.48	ESS
ATOM	38163	CG	TYR	E	61	167.438	135.046	0.361	1.00	97.48	ESS
ATOM	38164	CD1	TYR	E	61	167.501	136.311	-0.217	1.00	97.48	ESS
ATOM	38165	CE1	TYR	E	61	168.694	136.814	-0.712	1.00	97.48	ESS
ATOM	38166	CD2	TYR	E	61	168.606	134.294	0.428	1.00	97.48	ESS
ATOM	38167	CE2	TYR	E	61	169.803	134.785	-0.066	1.00	97.48	ESS
ATOM	38168	CZ	TYR	E	61	169.839	136.045	-0.631	1.00	97.48	ESS
ATOM	38169	OH	TYR	E	61	171.027	136.543	-1.102	1.00	97.48	ESS
ATOM	38170	C	TYR	E	61	163.870	134.912	1.768	1.00	83.27	ESS
ATOM	38171	O	TYR	E	61	163.055	135.150	0.880	1.00	83.27	ESS
ATOM	38172	N	ALA	E	62	163.592	134.154	2.820	1.00	45.34	ESS
ATOM	38173	CA	ALA	E	62	162.281	133.559	2.971	1.00	45.34	ESS
ATOM	38174	CB	ALA	E	62	162.316	132.490	4.053	1.00	77.75	ESS
ATOM	38175	C	ALA	E	62	161.259	134.625	3.318	1.00	45.34	ESS
ATOM	38176	O	ALA	E	62	160.150	134.626	2.783	1.00	45.34	ESS
ATOM	38177	N	ARG	E	63	161.652	135.538	4.204	1.00	63.72	ESS
ATOM	38178	CA	ARG	E	63	160.776	136.608	4.670	1.00	63.72	ESS
ATOM	38179	CB	ARG	E	63	161.497	137.458	5.696	1.00	76.48	ESS
ATOM	38180	CG	ARG	E	63	160.556	138.082	6.684	1.00	76.48	ESS



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ATOM	38181	CD	ARG	E	63	161.199	138.043	8.037	1.00	76.48	ES5
ATOM	38182	NE	ARG	E	63	161.719	136.711	8.305	1.00	76.48	ES5
ATOM	38183	CZ	ARG	E	63	162.249	136.336	9.461	1.00	76.48	ES5
ATOM	38184	NH1	ARG	E	63	162.335	137.195	10.469	1.00	76.48	ES5
ATOM	38185	NH2	ARG	E	63	162.685	135.096	9.613	1.00	76.48	ES5
ATOM	38186	C	ARG	E	63	160.270	137.481	3.542	1.00	63.72	ES5
ATOM	38187	O	ARG	E	63	159.162	138.009	3.602	1.00	63.72	ES5
ATOM	38188	N	ARG	E	64	161.109	137.665	2.533	1.00	87.02	ES5
ATOM	38189	CA	ARG	E	64	160.717	138.415	1.354	1.00	87.02	ES5
ATOM	38190	CB	ARG	E	64	161.951	138.982	0.656	1.00	137.75	ES5
ATOM	38191	CG	ARG	E	64	163.230	138.858	1.484	1.00	137.75	ES5
ATOM	38192	CD	ARG	E	64	164.125	140.070	1.326	1.00	137.75	ES5
ATOM	38193	NE	ARG	E	64	164.025	140.966	2.474	1.00	137.75	ES5
ATOM	38194	CZ	ARG	E	64	164.458	142.222	2.481	1.00	137.75	ES5
ATOM	38195	NH1	ARG	E	64	165.019	142.738	1.394	1.00	137.75	ES5
ATOM	38196	NH2	ARG	E	64	164.345	142.959	3.578	1.00	137.75	ES5
ATOM	38197	C	ARG	E	64	160.136	137.231	0.594	1.00	87.02	ES5
ATOM	38198	O	ARG	E	64	160.526	136.095	0.864	1.00	87.02	ES5
ATOM	38199	N	ASN	E	65	159.209	137.451	-0.326	1.00	92.96	ES5
ATOM	38200	CA	ASN	E	65	158.606	136.314	-1.027	1.00	92.96	ES5
ATOM	38201	CB	ASN	E	65	159.676	135.361	-1.573	1.00	82.01	ES5
ATOM	38202	CG	ASN	E	65	159.101	134.010	-1.966	1.00	82.01	ES5
ATOM	38203	OD1	ASN	E	65	158.261	133.916	-2.860	1.00	82.01	ES5
ATOM	38204	ND2	ASN	E	65	159.543	132.958	-1.288	1.00	82.01	ES5
ATOM	38205	C	ASN	E	65	157.701	135.532	-0.071	1.00	92.96	ES5
ATOM	38206	O	ASN	E	65	158.036	134.420	0.362	1.00	92.96	ES5
ATOM	38207	N	MET	E	66	156.563	136.132	0.265	1.00	72.48	ES5
ATOM	38208	CA	MET	E	66	155.592	135.502	1.149	1.00	72.48	ES5
ATOM	38209	CB	MET	E	66	155.124	136.487	2.215	1.00	74.08	ES5
ATOM	38210	CG	MET	E	66	156.198	136.958	3.159	1.00	74.08	ES5
ATOM	38211	SD	MET	E	66	156.678	135.677	4.316	1.00	74.08	ES5
ATOM	38212	CE	MET	E	66	155.224	135.547	5.297	1.00	74.08	ES5
ATOM	38213	C	MET	E	66	154.407	135.113	0.287	1.00	72.48	ES5
ATOM	38214	O	MET	E	66	154.280	135.590	-0.841	1.00	72.48	ES5
ATOM	38215	N	VAL	E	67	153.545	134.246	0.802	1.00	69.38	ES5
ATOM	38216	CA	VAL	E	67	152.371	133.860	0.041	1.00	69.38	ES5
ATOM	38217	CB	VAL	E	67	152.486	132.441	-0.523	1.00	53.97	ES5
ATOM	38218	CG1	VAL	E	67	151.254	132.107	-1.370	1.00	53.97	ES5
ATOM	38219	CG2	VAL	E	67	153.720	132.341	-1.365	1.00	53.97	ES5
ATOM	38220	C	VAL	E	67	151.131	133.945	0.908	1.00	69.38	ES5
ATOM	38221	O	VAL	E	67	151.160	133.638	2.106	1.00	69.38	ES5
ATOM	38222	N	GLU	E	68	150.042	134.377	0.285	1.00	79.06	ES5
ATOM	38223	CA	GLU	E	68	148.780	134.516	0.976	1.00	79.06	ES5
ATOM	38224	CB	GLU	E	68	148.058	135.763	0.469	1.00	112.16	ES5
ATOM	38225	CG	GLU	E	68	147.890	136.846	1.518	1.00	112.16	ES5
ATOM	38226	CD	GLU	E	68	149.160	137.106	2.304	1.00	112.16	ES5
ATOM	38227	OE1	GLU	E	68	150.233	137.298	1.683	1.00	112.16	ES5
ATOM	38228	OE2	GLU	E	68	149.074	137.125	3.551	1.00	112.16	ES5
ATOM	38229	C	GLU	E	68	147.902	133.283	0.789	1.00	79.06	ES5
ATOM	38230	O	GLU	E	68	147.195	133.157	-0.216	1.00	79.06	ES5
ATOM	38231	N	VAL	E	69	147.951	132.374	1.761	1.00	44.42	ES5
ATOM	38232	CA	VAL	E	69	147.140	131.169	1.699	1.00	44.42	ES5
ATOM	38233	CB	VAL	E	69	147.626	130.093	2.678	1.00	57.37	ES5
ATOM	38234	CG1	VAL	E	69	146.717	128.872	2.576	1.00	57.37	ES5
ATOM	38235	CG2	VAL	E	69	149.068	129.713	2.371	1.00	57.37	ES5
ATOM	38236	C	VAL	E	69	145.684	131.477	2.019	1.00	44.42	ES5
ATOM	38237	O	VAL	E	69	145.374	132.115	3.026	1.00	44.42	ES5
ATOM	38238	N	PRO	E	70	144.771	131.025	1.157	1.00	44.88	ES5
ATOM	38239	CD	PRO	E	70	145.040	130.584	-0.216	1.00	74.42	ES5
ATOM	38240	CA	PRO	E	70	143.343	131.247	1.335	1.00	44.88	ES5
ATOM	38241	CB	PRO	E	70	142.788	131.060	-0.071	1.00	74.42	ES5
ATOM	38242	CG	PRO	E	70	143.970	131.293	-0.957	1.00	74.42	ES5
ATOM	38243	C	PRO	E	70	142.737	130.254	2.294	1.00	44.88	ES5
ATOM	38244	O	PRO	E	70	141.799	129.547	1.924	1.00	44.88	ES5
ATOM	38245	N	LEU	E	71	143.259	130.185	3.516	1.00	62.76	ES5
ATOM	38246	CA	LEU	E	71	142.723	129.257	4.513	1.00	62.76	ES5
ATOM	38247	CB	LEU	E	71	143.421	129.466	5.857	1.00	61.56	ES5
ATOM	38248	CG	LEU	E	71	144.902	129.089	5.837	1.00	61.56	ES5
ATOM	38249	CD1	LEU	E	71	145.598	129.570	7.100	1.00	61.56	ES5
ATOM	38250	CD2	LEU	E	71	145.022	127.579	5.676	1.00	61.56	ES5
ATOM	38251	C	LEU	E	71	141.204	129.394	4.693	1.00	62.76	ES5
ATOM	38252	O	LEU	E	71	140.646	130.491	4.658	1.00	62.76	ES5
ATOM	38253	N	GLN	E	72	140.539	128.260	4.866	1.00	47.70	ES5
ATOM	38254	CA	GLN	E	72	139.102	128.233	5.060	1.00	47.70	ES5
ATOM	38255	CB	GLN	E	72	138.380	127.918	3.763	1.00	83.95	ES5
ATOM	38256	CG	GLN	E	72	138.723	128.819	2.619	1.00	83.95	ES5
ATOM	38257	CD	GLN	E	72	137.784	128.584	1.460	1.00	83.95	ES5



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ATOM	38258	OE1	GLN	E	72	137.235	127.489	1.321	1.00	83.95	ES5
ATOM	38259	NE2	GLN	E	72	137.590	129.602	0.618	1.00	83.95	ES5
ATOM	38260	C	GLN	E	72	138.776	127.147	6.059	1.00	47.70	ES5
ATOM	38261	O	GLN	E	72	138.802	125.963	5.727	1.00	47.70	ES5
ATOM	38262	N	ASN	E	73	138.476	127.556	7.286	1.00	79.74	ES5
ATOM	38263	CA	ASN	E	73	138.128	126.612	8.332	1.00	79.74	ES5
ATOM	38264	CB	ASN	E	73	136.905	125.796	7.905	1.00135.26		ES5
ATOM	38265	CG	ASN	E	73	136.339	124.962	9.032	1.00135.26		ES5
ATOM	38266	OD1	ASN	E	73	135.529	124.059	8.805	1.00135.26		ES5
ATOM	38267	ND2	ASN	E	73	136.755	125.264	10.261	1.00135.26		ES5
ATOM	38268	C	ASN	E	73	139.314	125.691	8.578	1.00	79.74	ES5
ATOM	38269	O	ASN	E	73	139.159	124.555	9.033	1.00	79.74	ES5
ATOM	38270	N	GLY	E	74	140.503	126.185	8.258	1.00	57.18	ES5
ATOM	38271	CA	GLY	E	74	141.697	125.389	8.468	1.00	57.18	ES5
ATOM	38272	C	GLY	E	74	142.100	124.490	7.316	1.00	57.18	ES5
ATOM	38273	O	GLY	E	74	143.001	123.666	7.465	1.00	57.18	ES5
ATOM	38274	N	THR	E	75	141.441	124.630	6.171	1.00	58.02	ES5
ATOM	38275	CA	THR	E	75	141.793	123.808	5.021	1.00	58.02	ES5
ATOM	38276	CB	THR	E	75	140.778	122.686	4.796	1.00	62.86	ES5
ATOM	38277	OG1	THR	E	75	141.413	121.609	4.098	1.00	62.86	ES5
ATOM	38278	CG2	THR	E	75	139.607	123.190	3.976	1.00	62.86	ES5
ATOM	38279	C	THR	E	75	141.917	124.623	3.740	1.00	58.02	ES5
ATOM	38280	O	THR	E	75	142.013	125.847	3.772	1.00	58.02	ES5
ATOM	38281	N	ILE	E	76	141.900	123.943	2.606	1.00	53.13	ES5
ATOM	38282	CA	ILE	E	76	142.063	124.622	1.340	1.00	53.13	ES5
ATOM	38283	CB	ILE	E	76	143.217	123.979	0.564	1.00	62.51	ES5
ATOM	38284	CG2	ILE	E	76	143.139	124.301	-0.899	1.00	62.51	ES5
ATOM	38285	CG1	ILE	E	76	144.533	124.484	1.125	1.00	62.51	ES5
ATOM	38286	CD1	ILE	E	76	145.708	123.743	0.566	1.00	62.51	ES5
ATOM	38287	C	ILE	E	76	140.834	124.699	0.453	1.00	53.13	ES5
ATOM	38288	O	ILE	E	76	140.023	123.775	0.387	1.00	53.13	ES5
ATOM	38289	N	PRO	E	77	140.686	125.828	-0.246	1.00	49.47	ES5
ATOM	38290	CD	PRO	E	77	141.485	127.038	-0.007	1.00	22.74	ES5
ATOM	38291	CA	PRO	E	77	139.582	126.103	-1.162	1.00	49.47	ES5
ATOM	38292	CB	PRO	E	77	139.977	127.413	-1.828	1.00	22.74	ES5
ATOM	38293	CG	PRO	E	77	141.406	127.701	-1.341	1.00	22.74	ES5
ATOM	38294	C	PRO	E	77	139.307	125.027	-2.176	1.00	49.47	ES5
ATOM	38295	O	PRO	E	77	138.202	124.963	-2.690	1.00	49.47	ES5
ATOM	38296	N	HIS	E	78	140.298	124.195	-2.481	1.00	49.47	ES5
ATOM	38297	CA	HIS	E	78	140.115	123.102	-3.445	1.00	49.47	ES5
ATOM	38298	CB	HIS	E	78	139.558	123.626	-4.776	1.00	62.89	ES5
ATOM	38299	CG	HIS	E	78	140.391	124.702	-5.394	1.00	62.89	ES5
ATOM	38300	CD2	HIS	E	78	140.114	126.001	-5.662	1.00	62.89	ES5
ATOM	38301	ND1	HIS	E	78	141.702	124.506	-5.769	1.00	62.89	ES5
ATOM	38302	CE1	HIS	E	78	142.197	125.640	-6.237	1.00	62.89	ES5
ATOM	38303	NE2	HIS	E	78	141.255	126.563	-6.183	1.00	62.89	ES5
ATOM	38304	C	HIS	E	78	141.403	122.340	-3.727	1.00	49.47	ES5
ATOM	38305	O	HIS	E	78	142.497	122.849	-3.495	1.00	49.47	ES5
ATOM	38306	N	GLU	E	79	141.264	121.118	-4.232	1.00	58.56	ES5
ATOM	38307	CA	GLU	E	79	142.415	120.284	-4.564	1.00	58.56	ES5
ATOM	38308	CB	GLU	E	79	141.965	118.851	-4.875	1.00114.91		ES5
ATOM	38309	CG	GLU	E	79	140.455	118.642	-4.833	1.00114.91		ES5
ATOM	38310	CD	GLU	E	79	139.747	119.136	-6.082	1.00114.91		ES5
ATOM	38311	OE1	GLU	E	79	140.144	120.187	-6.621	1.00114.91		ES5
ATOM	38312	OE2	GLU	E	79	138.780	118.476	-6.518	1.00114.91		ES5
ATOM	38313	C	GLU	E	79	143.146	120.876	-5.767	1.00	58.56	ES5
ATOM	38314	O	GLU	E	79	142.527	121.474	-6.647	1.00	58.56	ES5
ATOM	38315	N	ILE	E	80	144.468	120.730	-5.789	1.00	59.20	ES5
ATOM	38316	CA	ILE	E	80	145.276	121.242	-6.884	1.00	59.20	ES5
ATOM	38317	CB	ILE	E	80	145.560	122.722	-6.709	1.00	42.79	ES5
ATOM	38318	CG2	ILE	E	80	144.305	123.444	-6.403	1.00	42.79	ES5
ATOM	38319	CG1	ILE	E	80	146.508	122.940	-5.549	1.00	42.79	ES5
ATOM	38320	CD1	ILE	E	80	147.910	122.978	-5.982	1.00	42.79	ES5
ATOM	38321	C	ILE	E	80	146.596	120.504	-6.899	1.00	59.20	ES5
ATOM	38322	O	ILE	E	80	147.091	120.103	-5.842	1.00	59.20	ES5
ATOM	38323	N	GLU	E	81	147.165	120.336	-8.093	1.00	45.07	ES5
ATOM	38324	CA	GLU	E	81	148.442	119.643	-8.268	1.00	45.07	ES5
ATOM	38325	CB	GLU	E	81	148.263	118.399	-9.121	1.00120.93		ES5
ATOM	38326	CG	GLU	E	81	147.558	117.281	-8.431	1.00120.93		ES5
ATOM	38327	CD	GLU	E	81	147.248	116.158	-9.381	1.00120.93		ES5
ATOM	38328	OE1	GLU	E	81	148.126	115.834	-10.208	1.00120.93		ES5
ATOM	38329	OE2	GLU	E	81	146.132	115.598	-9.301	1.00120.93		ES5
ATOM	38330	C	GLU	E	81	149.437	120.543	-8.959	1.00	45.07	ES5
ATOM	38331	O	GLU	E	81	149.065	121.329	-9.825	1.00	45.07	ES5
ATOM	38332	N	VAL	E	82	150.705	120.422	-8.588	1.00	63.30	ES5
ATOM	38333	CA	VAL	E	82	151.729	121.237	-9.215	1.00	63.30	ES5
ATOM	38334	CB	VAL	E	82	152.026	122.479	-8.427	1.00	21.48	ES5



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ATOM	38335	CG1	VAL	E	82	153.225	123.150	-9.023	1.00	21.48	ES5
ATOM	38336	CG2	VAL	E	82	150.860	123.420	-8.472	1.00	21.48	ES5
ATOM	38337	C	VAL	E	82	153.060	120.548	-9.430	1.00	63.30	ES5
ATOM	38338	O	VAL	E	82	153.692	120.066	-8.483	1.00	63.30	ES5
ATOM	38339	N	GLU	E	83	153.490	120.542	-10.687	1.00	61.88	ES5
ATOM	38340	CA	GLU	E	83	154.748	119.937	-11.075	1.00	61.88	ES5
ATOM	38341	CB	GLU	E	83	154.616	119.257	-12.435	1.00	150.26	ES5
ATOM	38342	CG	GLU	E	83	153.789	117.995	-12.460	1.00	150.26	ES5
ATOM	38343	CD	GLU	E	83	153.657	117.435	-13.866	1.00	150.26	ES5
ATOM	38344	OE1	GLU	E	83	154.681	117.390	-14.583	1.00	150.26	ES5
ATOM	38345	OE2	GLU	E	83	152.537	117.034	-14.253	1.00	150.26	ES5
ATOM	38346	C	GLU	E	83	155.780	121.035	-11.207	1.00	61.88	ES5
ATOM	38347	O	GLU	E	83	155.667	121.872	-12.088	1.00	61.88	ES5
ATOM	38348	N	PHE	E	84	156.777	121.049	-10.335	1.00	55.42	ES5
ATOM	38349	CA	PHE	E	84	157.839	122.044	-10.429	1.00	55.42	ES5
ATOM	38350	CB	PHE	E	84	158.063	122.740	-9.102	1.00	57.96	ES5
ATOM	38351	CG	PHE	E	84	159.247	123.650	-9.098	1.00	57.96	ES5
ATOM	38352	CD1	PHE	E	84	159.164	124.921	-9.638	1.00	57.96	ES5
ATOM	38353	CD2	PHE	E	84	160.446	123.241	-8.542	1.00	57.96	ES5
ATOM	38354	CE1	PHE	E	84	160.258	125.781	-9.621	1.00	57.96	ES5
ATOM	38355	CE2	PHE	E	84	161.548	124.093	-8.521	1.00	57.96	ES5
ATOM	38356	CZ	PHE	E	84	161.449	125.371	-9.063	1.00	57.96	ES5
ATOM	38357	C	PHE	E	84	159.074	121.241	-10.767	1.00	55.42	ES5
ATOM	38358	O	PHE	E	84	159.724	120.684	-9.872	1.00	55.42	ES5
ATOM	38359	N	GLY	E	85	159.389	121.171	-12.057	1.00	42.98	ES5
ATOM	38360	CA	GLY	E	85	160.535	120.392	-12.485	1.00	42.98	ES5
ATOM	38361	C	GLY	E	85	160.104	118.944	-12.529	1.00	42.98	ES5
ATOM	38362	O	GLY	E	85	159.005	118.630	-12.986	1.00	42.98	ES5
ATOM	38363	N	ALA	E	86	160.944	118.044	-12.050	1.00	42.55	ES5
ATOM	38364	CA	ALA	E	86	160.545	116.647	-12.072	1.00	42.55	ES5
ATOM	38365	CB	ALA	E	86	161.775	115.767	-12.057	1.00	104.35	ES5
ATOM	38366	C	ALA	E	86	159.647	116.325	-10.872	1.00	42.55	ES5
ATOM	38367	O	ALA	E	86	159.156	115.202	-10.725	1.00	42.55	ES5
ATOM	38368	N	SER	E	87	159.424	117.325	-10.026	1.00	60.14	ES5
ATOM	38369	CA	SER	E	87	158.633	117.160	-8.813	1.00	60.14	ES5
ATOM	38370	CB	SER	E	87	159.288	117.975	-7.708	1.00	33.73	ES5
ATOM	38371	OG	SER	E	87	160.698	117.838	-7.777	1.00	33.73	ES5
ATOM	38372	C	SER	E	87	157.161	117.551	-8.963	1.00	60.14	ES5
ATOM	38373	O	SER	E	87	156.822	118.535	-9.624	1.00	60.14	ES5
ATOM	38374	N	LYS	E	88	156.285	116.781	-8.332	1.00	51.24	ES5
ATOM	38375	CA	LYS	E	88	154.862	117.047	-8.423	1.00	51.24	ES5
ATOM	38376	CB	LYS	E	88	154.209	116.026	-9.347	1.00	65.77	ES5
ATOM	38377	CG	LYS	E	88	152.741	116.273	-9.627	1.00	65.77	ES5
ATOM	38378	CD	LYS	E	88	152.209	115.258	-10.636	1.00	65.77	ES5
ATOM	38379	CE	LYS	E	88	150.805	115.607	-11.100	1.00	65.77	ES5
ATOM	38380	NZ	LYS	E	88	150.330	114.730	-12.211	1.00	65.77	ES5
ATOM	38381	C	LYS	E	88	154.220	116.959	-7.054	1.00	51.24	ES5
ATOM	38382	O	LYS	E	88	154.301	115.922	-6.391	1.00	51.24	ES5
ATOM	38383	N	ILE	E	89	153.583	118.041	-6.621	1.00	37.25	ES5
ATOM	38384	CA	ILE	E	89	152.921	118.036	-5.323	1.00	37.25	ES5
ATOM	38385	CB	ILE	E	89	153.281	119.316	-4.486	1.00	32.75	ES5
ATOM	38386	CG2	ILE	E	89	152.200	120.367	-4.600	1.00	32.75	ES5
ATOM	38387	CG1	ILE	E	89	153.519	118.937	-3.019	1.00	32.75	ES5
ATOM	38388	CD1	ILE	E	89	152.443	118.101	-2.428	1.00	32.75	ES5
ATOM	38389	C	ILE	E	89	151.422	117.949	-5.567	1.00	37.25	ES5
ATOM	38390	O	ILE	E	89	150.908	118.427	-6.578	1.00	37.25	ES5
ATOM	38391	N	VAL	E	90	150.726	117.296	-4.659	1.00	45.12	ES5
ATOM	38392	CA	VAL	E	90	149.298	117.166	-4.795	1.00	45.12	ES5
ATOM	38393	CB	VAL	E	90	148.865	115.738	-5.015	1.00	26.56	ES5
ATOM	38394	CG1	VAL	E	90	147.387	115.645	-4.767	1.00	26.56	ES5
ATOM	38395	CG2	VAL	E	90	149.173	115.304	-6.428	1.00	26.56	ES5
ATOM	38396	C	VAL	E	90	148.676	117.617	-3.512	1.00	45.12	ES5
ATOM	38397	O	VAL	E	90	149.014	117.114	-2.434	1.00	45.12	ES5
ATOM	38398	N	LEU	E	91	147.746	118.551	-3.639	1.00	47.93	ES5
ATOM	38399	CA	LEU	E	91	147.059	119.101	-2.489	1.00	47.93	ES5
ATOM	38400	CB	LEU	E	91	147.328	120.597	-2.398	1.00	31.60	ES5
ATOM	38401	CG	LEU	E	91	148.793	120.995	-2.202	1.00	31.60	ES5
ATOM	38402	CD1	LEU	E	91	148.915	122.528	-2.248	1.00	31.60	ES5
ATOM	38403	CD2	LEU	E	91	149.302	120.407	-0.874	1.00	31.60	ES5
ATOM	38404	C	LEU	E	91	145.573	118.860	-2.603	1.00	47.93	ES5
ATOM	38405	O	LEU	E	91	144.956	119.172	-3.620	1.00	47.93	ES5
ATOM	38406	N	LYS	E	92	145.000	118.299	-1.550	1.00	40.64	ES5
ATOM	38407	CA	LYS	E	92	143.578	118.020	-1.523	1.00	40.64	ES5
ATOM	38408	CB	LYS	E	92	143.346	116.541	-1.755	1.00	61.71	ES5
ATOM	38409	CG	LYS	E	92	141.912	116.147	-1.861	1.00	61.71	ES5
ATOM	38410	CD	LYS	E	92	141.850	114.691	-2.201	1.00	61.71	ES5
ATOM	38411	CE	LYS	E	92	140.436	114.263	-2.398	1.00	61.71	ES5



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ATOM	38412	NZ	LYS	E	92	140.394	112.802	-2.610	1.00	61.71	ES5
ATOM	38413	C	LYS	E	92	143.114	118.423	-0.138	1.00	40.64	ES5
ATOM	38414	O	LYS	E	92	143.786	118.141	0.861	1.00	40.64	ES5
ATOM	38415	N	PRO	E	93	141.966	119.103	-0.055	1.00	40.55	ES5
ATOM	38416	CD	PRO	E	93	141.142	119.561	-1.185	1.00	26.15	ES5
ATOM	38417	CA	PRO	E	93	141.404	119.564	1.213	1.00	40.55	ES5
ATOM	38418	CB	PRO	E	93	140.453	120.669	0.769	1.00	26.15	ES5
ATOM	38419	CG	PRO	E	93	139.916	120.132	-0.486	1.00	26.15	ES5
ATOM	38420	C	PRO	E	93	140.713	118.467	2.013	1.00	40.55	ES5
ATOM	38421	O	PRO	E	93	140.311	117.438	1.455	1.00	40.55	ES5
ATOM	38422	N	ALA	E	94	140.584	118.697	3.322	1.00	68.32	ES5
ATOM	38423	CA	ALA	E	94	139.953	117.729	4.218	1.00	68.32	ES5
ATOM	38424	CB	ALA	E	94	140.997	116.747	4.733	1.00	105.39	ES5
ATOM	38425	C	ALA	E	94	139.196	118.332	5.403	1.00	68.32	ES5
ATOM	38426	O	ALA	E	94	139.526	119.414	5.901	1.00	68.32	ES5
ATOM	38427	N	ALA	E	95	138.179	117.598	5.847	1.00	57.73	ES5
ATOM	38428	CA	ALA	E	95	137.352	118.002	6.965	1.00	57.73	ES5
ATOM	38429	CB	ALA	E	95	136.266	116.979	7.186	1.00	69.86	ES5
ATOM	38430	C	ALA	E	95	138.227	118.105	8.199	1.00	57.73	ES5
ATOM	38431	O	ALA	E	95	139.361	117.629	8.203	1.00	57.73	ES5
ATOM	38432	N	PRO	E	96	137.717	118.731	9.269	1.00	46.62	ES5
ATOM	38433	CD	PRO	E	96	136.447	119.465	9.384	1.00	39.47	ES5
ATOM	38434	CA	PRO	E	96	138.508	118.866	10.496	1.00	46.62	ES5
ATOM	38435	CB	PRO	E	96	137.632	119.749	11.375	1.00	39.47	ES5
ATOM	38436	CG	PRO	E	96	136.806	120.522	10.384	1.00	39.47	ES5
ATOM	38437	C	PRO	E	96	138.731	117.499	11.117	1.00	46.62	ES5
ATOM	38438	O	PRO	E	96	137.945	116.583	10.901	1.00	46.62	ES5
ATOM	38439	N	GLY	E	97	139.793	117.360	11.896	1.00	71.00	ES5
ATOM	38440	CA	GLY	E	97	140.053	116.078	12.516	1.00	71.00	ES5
ATOM	38441	C	GLY	E	97	140.821	115.199	11.557	1.00	71.00	ES5
ATOM	38442	O	GLY	E	97	141.144	114.048	11.862	1.00	71.00	ES5
ATOM	38443	N	THR	E	98	141.108	115.739	10.381	1.00	41.03	ES5
ATOM	38444	CA	THR	E	98	141.865	114.997	9.392	1.00	41.03	ES5
ATOM	38445	CB	THR	E	98	141.585	115.497	7.965	1.00	50.16	ES5
ATOM	38446	OG1	THR	E	98	140.264	115.097	7.557	1.00	50.16	ES5
ATOM	38447	CG2	THR	E	98	142.614	114.936	7.002	1.00	50.16	ES5
ATOM	38448	C	THR	E	98	143.347	115.168	9.684	1.00	41.03	ES5
ATOM	38449	O	THR	E	98	144.103	114.200	9.682	1.00	41.03	ES5
ATOM	38450	N	GLY	E	99	143.753	116.405	9.937	1.00	62.32	ES5
ATOM	38451	CA	GLY	E	99	145.149	116.682	10.213	1.00	62.32	ES5
ATOM	38452	C	GLY	E	99	145.940	117.148	8.996	1.00	62.32	ES5
ATOM	38453	O	GLY	E	99	145.386	117.538	7.958	1.00	62.32	ES5
ATOM	38454	N	VAL	E	100	147.257	117.124	9.129	1.00	63.88	ES5
ATOM	38455	CA	VAL	E	100	148.123	117.525	8.040	1.00	63.88	ES5
ATOM	38456	CB	VAL	E	100	149.179	118.515	8.510	1.00	58.86	ES5
ATOM	38457	CG1	VAL	E	100	149.868	119.124	7.317	1.00	58.86	ES5
ATOM	38458	CG2	VAL	E	100	148.536	119.579	9.382	1.00	58.86	ES5
ATOM	38459	C	VAL	E	100	148.812	116.257	7.593	1.00	63.88	ES5
ATOM	38460	O	VAL	E	100	149.824	115.850	8.167	1.00	63.88	ES5
ATOM	38461	N	ILE	E	101	148.247	115.620	6.578	1.00	45.41	ES5
ATOM	38462	CA	ILE	E	101	148.800	114.377	6.056	1.00	45.41	ES5
ATOM	38463	CB	ILE	E	101	147.656	113.436	5.691	1.00	47.05	ES5
ATOM	38464	CG2	ILE	E	101	148.189	112.100	5.194	1.00	47.05	ES5
ATOM	38465	CG1	ILE	E	101	146.778	113.273	6.922	1.00	47.05	ES5
ATOM	38466	CD1	ILE	E	101	145.769	112.181	6.788	1.00	47.05	ES5
ATOM	38467	C	ILE	E	101	149.713	114.623	4.853	1.00	45.41	ES5
ATOM	38468	O	ILE	E	101	149.277	114.629	3.694	1.00	45.41	ES5
ATOM	38469	N	ALA	E	102	150.992	114.812	5.146	1.00	45.91	ES5
ATOM	38470	CA	ALA	E	102	151.961	115.094	4.105	1.00	45.91	ES5
ATOM	38471	CB	ALA	E	102	151.937	116.586	3.786	1.00	51.10	ES5
ATOM	38472	C	ALA	E	102	153.377	114.686	4.473	1.00	45.91	ES5
ATOM	38473	O	ALA	E	102	153.642	114.181	5.566	1.00	45.91	ES5
ATOM	38474	N	GLY	E	103	154.285	114.899	3.528	1.00	53.12	ES5
ATOM	38475	CA	GLY	E	103	155.680	114.608	3.778	1.00	53.12	ES5
ATOM	38476	C	GLY	E	103	156.252	115.769	4.572	1.00	53.12	ES5
ATOM	38477	O	GLY	E	103	155.799	116.903	4.443	1.00	53.12	ES5
ATOM	38478	N	ALA	E	104	157.250	115.498	5.394	1.00	50.08	ES5
ATOM	38479	CA	ALA	E	104	157.838	116.549	6.199	1.00	50.08	ES5
ATOM	38480	CB	ALA	E	104	159.115	116.067	6.820	1.00	40.53	ES5
ATOM	38481	C	ALA	E	104	158.081	117.863	5.462	1.00	50.08	ES5
ATOM	38482	O	ALA	E	104	157.946	118.921	6.061	1.00	50.08	ES5
ATOM	38483	N	VAL	E	105	158.443	117.833	4.182	1.00	45.91	ES5
ATOM	38484	CA	VAL	E	105	158.658	119.109	3.508	1.00	45.91	ES5
ATOM	38485	CB	VAL	E	105	159.354	118.947	2.136	1.00	41.88	ES5
ATOM	38486	CG1	VAL	E	105	159.442	120.301	1.413	1.00	41.88	ES5
ATOM	38487	CG2	VAL	E	105	160.744	118.393	2.339	1.00	41.88	ES5
ATOM	38488	C	VAL	E	105	157.321	119.817	3.325	1.00	45.91	ES5



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ATOM	38489	O	VAL	E	105	157.098	120.880	3.904	1.00	45.91	ES5
ATOM	38490	N	PRO	E	106	156.401	119.233	2.538	1.00	52.26	ES5
ATOM	38491	CD	PRO	E	106	156.426	117.908	1.898	1.00	48.22	ES5
ATOM	38492	CA	PRO	E	106	155.101	119.881	2.335	1.00	52.26	ES5
ATOM	38493	CB	PRO	E	106	154.278	118.800	1.645	1.00	48.22	ES5
ATOM	38494	CG	PRO	E	106	155.294	118.024	0.905	1.00	48.22	ES5
ATOM	38495	C	PRO	E	106	154.484	120.286	3.669	1.00	52.26	ES5
ATOM	38496	O	PRO	E	106	153.883	121.356	3.798	1.00	52.26	ES5
ATOM	38497	N	ARG	E	107	154.641	119.419	4.664	1.00	48.26	ES5
ATOM	38498	CA	ARG	E	107	154.090	119.679	5.983	1.00	48.26	ES5
ATOM	38499	CB	ARG	E	107	154.541	118.606	6.972	1.00	82.77	ES5
ATOM	38500	CG	ARG	E	107	154.267	118.968	8.414	1.00	82.77	ES5
ATOM	38501	CD	ARG	E	107	154.698	117.881	9.377	1.00	82.77	ES5
ATOM	38502	NE	ARG	E	107	153.675	116.854	9.526	1.00	82.77	ES5
ATOM	38503	CZ	ARG	E	107	153.525	115.817	8.713	1.00	82.77	ES5
ATOM	38504	NH1	ARG	E	107	154.342	115.657	7.678	1.00	82.77	ES5
ATOM	38505	NH2	ARG	E	107	152.552	114.936	8.938	1.00	82.77	ES5
ATOM	38506	C	ARG	E	107	154.495	121.049	6.485	1.00	48.26	ES5
ATOM	38507	O	ARG	E	107	153.695	121.978	6.459	1.00	48.26	ES5
ATOM	38508	N	ALA	E	108	155.741	121.163	6.932	1.00	37.19	ES5
ATOM	38509	CA	ALA	E	108	156.283	122.415	7.451	1.00	37.19	ES5
ATOM	38510	CB	ALA	E	108	157.794	122.401	7.358	1.00	49.68	ES5
ATOM	38511	C	ALA	E	108	155.729	123.643	6.735	1.00	37.19	ES5
ATOM	38512	O	ALA	E	108	155.261	124.578	7.379	1.00	37.19	ES5
ATOM	38513	N	ILE	E	109	155.788	123.660	5.409	1.00	43.02	ES5
ATOM	38514	CA	ILE	E	109	155.237	124.791	4.671	1.00	43.02	ES5
ATOM	38515	CB	ILE	E	109	155.320	124.555	3.157	1.00	49.56	ES5
ATOM	38516	CG2	ILE	E	109	154.597	125.680	2.410	1.00	49.56	ES5
ATOM	38517	CG1	ILE	E	109	156.787	124.456	2.740	1.00	49.56	ES5
ATOM	38518	CD1	ILE	E	109	157.002	123.817	1.394	1.00	49.56	ES5
ATOM	38519	C	ILE	E	109	153.766	124.922	5.076	1.00	43.02	ES5
ATOM	38520	O	ILE	E	109	153.358	125.928	5.656	1.00	43.02	ES5
ATOM	38521	N	LEU	E	110	152.990	123.881	4.789	1.00	47.21	ES5
ATOM	38522	CA	LEU	E	110	151.573	123.843	5.118	1.00	47.21	ES5
ATOM	38523	CB	LEU	E	110	151.016	122.475	4.769	1.00	24.42	ES5
ATOM	38524	CG	LEU	E	110	150.892	122.394	3.254	1.00	24.42	ES5
ATOM	38525	CD1	LEU	E	110	150.426	120.999	2.869	1.00	24.42	ES5
ATOM	38526	CD2	LEU	E	110	149.926	123.482	2.754	1.00	24.42	ES5
ATOM	38527	C	LEU	E	110	151.191	124.194	6.559	1.00	47.21	ES5
ATOM	38528	O	LEU	E	110	150.103	124.730	6.805	1.00	47.21	ES5
ATOM	38529	N	GLU	E	111	152.064	123.889	7.514	1.00	60.62	ES5
ATOM	38530	CA	GLU	E	111	151.762	124.203	8.900	1.00	60.62	ES5
ATOM	38531	CB	GLU	E	111	152.727	123.482	9.842	1.00	128.91	ES5
ATOM	38532	CG	GLU	E	111	152.697	121.970	9.683	1.00	128.91	ES5
ATOM	38533	CD	GLU	E	111	153.308	121.228	10.861	1.00	128.91	ES5
ATOM	38534	OE1	GLU	E	111	154.501	121.448	11.170	1.00	128.91	ES5
ATOM	38535	OE2	GLU	E	111	152.586	120.414	11.478	1.00	128.91	ES5
ATOM	38536	C	GLU	E	111	151.852	125.710	9.085	1.00	60.62	ES5
ATOM	38537	O	GLU	E	111	150.839	126.371	9.318	1.00	60.62	ES5
ATOM	38538	N	LEU	E	112	153.050	126.268	8.947	1.00	45.37	ES5
ATOM	38539	CA	LEU	E	112	153.200	127.704	9.125	1.00	45.37	ES5
ATOM	38540	CB	LEU	E	112	154.640	128.143	8.938	1.00	34.28	ES5
ATOM	38541	CG	LEU	E	112	155.686	127.236	9.559	1.00	34.28	ES5
ATOM	38542	CD1	LEU	E	112	156.967	128.021	9.709	1.00	34.28	ES5
ATOM	38543	CD2	LEU	E	112	155.226	126.736	10.903	1.00	34.28	ES5
ATOM	38544	C	LEU	E	112	152.342	128.423	8.118	1.00	45.37	ES5
ATOM	38545	O	LEU	E	112	152.212	129.647	8.152	1.00	45.37	ES5
ATOM	38546	N	ALA	E	113	151.775	127.669	7.191	1.00	58.54	ES5
ATOM	38547	CA	ALA	E	113	150.919	128.294	6.214	1.00	58.54	ES5
ATOM	38548	CB	ALA	E	113	150.621	127.335	5.081	1.00	93.23	ES5
ATOM	38549	C	ALA	E	113	149.658	128.616	6.991	1.00	58.54	ES5
ATOM	38550	O	ALA	E	113	148.820	129.411	6.556	1.00	58.54	ES5
ATOM	38551	N	GLY	E	114	149.544	128.010	8.169	1.00	60.07	ES5
ATOM	38552	CA	GLY	E	114	148.369	128.223	8.984	1.00	60.07	ES5
ATOM	38553	C	GLY	E	114	147.325	127.195	8.591	1.00	60.07	ES5
ATOM	38554	O	GLY	E	114	146.161	127.288	8.977	1.00	60.07	ES5
ATOM	38555	N	VAL	E	115	147.741	126.213	7.800	1.00	55.85	ES5
ATOM	38556	CA	VAL	E	115	146.837	125.156	7.379	1.00	55.85	ES5
ATOM	38557	CB	VAL	E	115	147.368	124.400	6.171	1.00	34.12	ES5
ATOM	38558	CG1	VAL	E	115	146.405	123.271	5.838	1.00	34.12	ES5
ATOM	38559	CG2	VAL	E	115	147.537	125.340	4.994	1.00	34.12	ES5
ATOM	38560	C	VAL	E	115	146.712	124.155	8.509	1.00	55.85	ES5
ATOM	38561	O	VAL	E	115	147.628	123.996	9.305	1.00	55.85	ES5
ATOM	38562	N	THR	E	116	145.597	123.454	8.578	1.00	54.23	ES5
ATOM	38563	CA	THR	E	116	145.455	122.501	9.652	1.00	54.23	ES5
ATOM	38564	CB	THR	E	116	144.691	123.134	10.813	1.00	55.22	ES5
ATOM	38565	OG1	THR	E	116	145.101	122.510	12.038	1.00	55.22	ES5



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ATOM	38566	CG2	THR	E	116	143.178	122.973	10.613	1.00	55.22	ES5
ATOM	38567	C	THR	E	116	144.785	121.193	9.245	1.00	54.23	ES5
ATOM	38568	O	THR	E	116	144.655	120.275	10.053	1.00	54.23	ES5
ATOM	38569	N	ASP	E	117	144.361	121.099	7.995	1.00	53.07	ES5
ATOM	38570	CA	ASP	E	117	143.740	119.874	7.542	1.00	53.07	ES5
ATOM	38571	CB	ASP	E	117	142.268	119.848	7.966	1.00	95.21	ES5
ATOM	38572	CG	ASP	E	117	142.078	119.461	9.432	1.00	95.21	ES5
ATOM	38573	OD1	ASP	E	117	142.117	118.252	9.741	1.00	95.21	ES5
ATOM	38574	OD2	ASP	E	117	141.894	120.361	10.281	1.00	95.21	ES5
ATOM	38575	C	ASP	E	117	143.853	119.721	6.038	1.00	53.07	ES5
ATOM	38576	O	ASP	E	117	143.153	120.421	5.304	1.00	53.07	ES5
ATOM	38577	N	ILE	E	118	144.755	118.835	5.587	1.00	36.61	ES5
ATOM	38578	CA	ILE	E	118	144.931	118.554	4.152	1.00	36.61	ES5
ATOM	38579	CB	ILE	E	118	145.995	119.409	3.442	1.00	60.62	ES5
ATOM	38580	CG2	ILE	E	118	145.424	119.993	2.147	1.00	60.62	ES5
ATOM	38581	CG1	ILE	E	118	146.521	120.496	4.352	1.00	60.62	ES5
ATOM	38582	CD1	ILE	E	118	147.544	121.357	3.651	1.00	60.62	ES5
ATOM	38583	C	ILE	E	118	145.387	117.151	3.845	1.00	36.61	ES5
ATOM	38584	O	ILE	E	118	146.073	116.512	4.642	1.00	36.61	ES5
ATOM	38585	N	LEU	E	119	145.004	116.692	2.659	1.00	70.03	ES5
ATOM	38586	CA	LEU	E	119	145.405	115.388	2.150	1.00	70.03	ES5
ATOM	38587	CB	LEU	E	119	144.225	114.680	1.500	1.00	39.15	ES5
ATOM	38588	CG	LEU	E	119	143.281	114.250	2.617	1.00	39.15	ES5
ATOM	38589	CD1	LEU	E	119	142.092	113.473	2.084	1.00	39.15	ES5
ATOM	38590	CD2	LEU	E	119	144.076	113.402	3.579	1.00	39.15	ES5
ATOM	38591	C	LEU	E	119	146.477	115.742	1.134	1.00	70.03	ES5
ATOM	38592	O	LEU	E	119	146.240	116.553	0.227	1.00	70.03	ES5
ATOM	38593	N	THR	E	120	147.652	115.135	1.295	1.00	39.84	ES5
ATOM	38594	CA	THR	E	120	148.800	115.450	0.459	1.00	39.84	ES5
ATOM	38595	CB	THR	E	120	149.902	116.039	1.343	1.00	43.37	ES5
ATOM	38596	OG1	THR	E	120	150.006	117.443	1.089	1.00	43.37	ES5
ATOM	38597	CG2	THR	E	120	151.253	115.311	1.116	1.00	43.37	ES5
ATOM	38598	C	THR	E	120	149.407	114.311	-0.309	1.00	39.84	ES5
ATOM	38599	O	THR	E	120	149.098	113.165	-0.049	1.00	39.84	ES5
ATOM	38600	N	LYS	E	121	150.286	114.640	-1.252	1.00	59.03	ES5
ATOM	38601	CA	LYS	E	121	150.993	113.615	-2.002	1.00	59.03	ES5
ATOM	38602	CB	LYS	E	121	150.039	112.788	-2.844	1.00	55.83	ES5
ATOM	38603	CG	LYS	E	121	150.733	111.631	-3.546	1.00	55.83	ES5
ATOM	38604	CD	LYS	E	121	151.587	110.820	-2.594	1.00	55.83	ES5
ATOM	38605	CE	LYS	E	121	152.013	109.529	-3.262	1.00	55.83	ES5
ATOM	38606	NZ	LYS	E	121	152.850	108.661	-2.384	1.00	55.83	ES5
ATOM	38607	C	LYS	E	121	152.113	114.105	-2.896	1.00	59.03	ES5
ATOM	38608	O	LYS	E	121	151.899	114.906	-3.810	1.00	59.03	ES5
ATOM	38609	N	GLU	E	122	153.310	113.598	-2.615	1.00	60.16	ES5
ATOM	38610	CA	GLU	E	122	154.508	113.925	-3.373	1.00	60.16	ES5
ATOM	38611	CB	GLU	E	122	155.751	113.784	-2.499	1.00	58.04	ES5
ATOM	38612	CG	GLU	E	122	156.183	115.046	-1.825	1.00	58.04	ES5
ATOM	38613	CD	GLU	E	122	157.239	114.798	-0.772	1.00	58.04	ES5
ATOM	38614	OE1	GLU	E	122	158.292	114.199	-1.079	1.00	58.04	ES5
ATOM	38615	OE2	GLU	E	122	157.017	115.210	0.383	1.00	58.04	ES5
ATOM	38616	C	GLU	E	122	154.592	112.925	-4.500	1.00	60.16	ES5
ATOM	38617	O	GLU	E	122	154.538	111.722	-4.280	1.00	60.16	ES5
ATOM	38618	N	LEU	E	123	154.718	113.410	-5.714	1.00	49.05	ES5
ATOM	38619	CA	LEU	E	123	154.816	112.504	-6.830	1.00	49.05	ES5
ATOM	38620	CB	LEU	E	123	153.528	112.520	-7.642	1.00	21.59	ES5
ATOM	38621	CG	LEU	E	123	152.409	111.725	-6.984	1.00	21.59	ES5
ATOM	38622	CD1	LEU	E	123	151.304	111.485	-7.965	1.00	21.59	ES5
ATOM	38623	CD2	LEU	E	123	152.951	110.404	-6.518	1.00	21.59	ES5
ATOM	38624	C	LEU	E	123	155.970	112.922	-7.687	1.00	49.05	ES5
ATOM	38625	O	LEU	E	123	156.257	114.117	-7.795	1.00	49.05	ES5
ATOM	38626	N	GLY	E	124	156.634	111.938	-8.291	1.00	52.72	ES5
ATOM	38627	CA	GLY	E	124	157.774	112.222	-9.152	1.00	52.72	ES5
ATOM	38628	C	GLY	E	124	159.030	112.530	-8.356	1.00	52.72	ES5
ATOM	38629	O	GLY	E	124	159.206	112.022	-7.237	1.00	52.72	ES5
ATOM	38630	N	SER	E	125	159.906	113.355	-8.926	1.00	45.66	ES5
ATOM	38631	CA	SER	E	125	161.136	113.732	-8.233	1.00	45.66	ES5
ATOM	38632	CB	SER	E	125	161.868	114.845	-8.968	1.00	50.28	ES5
ATOM	38633	OG	SER	E	125	162.811	115.449	-8.101	1.00	50.28	ES5
ATOM	38634	C	SER	E	125	160.825	114.235	-6.840	1.00	45.66	ES5
ATOM	38635	O	SER	E	125	160.217	115.297	-6.686	1.00	45.66	ES5
ATOM	38636	N	ARG	E	126	161.245	113.489	-5.827	1.00	32.69	ES5
ATOM	38637	CA	ARG	E	126	160.983	113.912	-4.472	1.00	32.69	ES5
ATOM	38638	CB	ARG	E	126	160.770	112.702	-3.570	1.00	43.33	ES5
ATOM	38639	CG	ARG	E	126	159.488	112.051	-3.928	1.00	43.33	ES5
ATOM	38640	CD	ARG	E	126	158.984	111.054	-2.937	1.00	43.33	ES5
ATOM	38641	NE	ARG	E	126	157.686	110.617	-3.432	1.00	43.33	ES5
ATOM	38642	CZ	ARG	E	126	157.189	109.404	-3.251	1.00	43.33	ES5



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ATOM	38643	NH1	ARG	E	126	157.888	108.502	-2.572	1.00	43.33	ES5
ATOM	38644	NH2	ARG	E	126	156.008	109.086	-3.763	1.00	43.33	ES5
ATOM	38645	C	ARG	E	126	162.052	114.810	-3.904	1.00	32.69	ES5
ATOM	38646	O	ARG	E	126	162.258	114.851	-2.696	1.00	32.69	ES5
ATOM	38647	N	ASN	E	127	162.730	115.557	-4.756	1.00	51.40	ES5
ATOM	38648	CA	ASN	E	127	163.747	116.412	-4.205	1.00	51.40	ES5
ATOM	38649	CB	ASN	E	127	164.576	117.093	-5.269	1.00	80.40	ES5
ATOM	38650	CG	ASN	E	127	165.593	118.006	-4.657	1.00	80.40	ES5
ATOM	38651	OD1	ASN	E	127	165.249	119.044	-4.084	1.00	80.40	ES5
ATOM	38652	ND2	ASN	E	127	166.856	117.610	-4.727	1.00	80.40	ES5
ATOM	38653	C	ASN	E	127	163.149	117.485	-3.320	1.00	51.40	ES5
ATOM	38654	O	ASN	E	127	162.357	118.317	-3.772	1.00	51.40	ES5
ATOM	38655	N	PRO	E	128	163.535	117.488	-2.039	1.00	40.99	ES5
ATOM	38656	CD	PRO	E	128	164.639	116.729	-1.440	1.00	28.41	ES5
ATOM	38657	CA	PRO	E	128	163.033	118.473	-1.092	1.00	40.99	ES5
ATOM	38658	CB	PRO	E	128	164.010	118.357	0.074	1.00	28.41	ES5
ATOM	38659	CG	PRO	E	128	165.217	117.750	-0.536	1.00	28.41	ES5
ATOM	38660	C	PRO	E	128	162.971	119.876	-1.678	1.00	40.99	ES5
ATOM	38661	O	PRO	E	128	161.901	120.489	-1.707	1.00	40.99	ES5
ATOM	38662	N	ILE	E	129	164.095	120.384	-2.161	1.00	39.12	ES5
ATOM	38663	CA	ILE	E	129	164.067	121.725	-2.722	1.00	39.12	ES5
ATOM	38664	CB	ILE	E	129	165.430	122.165	-3.238	1.00	51.16	ES5
ATOM	38665	CG2	ILE	E	129	165.344	123.593	-3.771	1.00	51.16	ES5
ATOM	38666	CG1	ILE	E	129	166.448	122.070	-2.103	1.00	51.16	ES5
ATOM	38667	CD1	ILE	E	129	167.780	122.717	-2.422	1.00	51.16	ES5
ATOM	38668	C	ILE	E	129	163.051	121.895	-3.844	1.00	39.12	ES5
ATOM	38669	O	ILE	E	129	162.360	122.903	-3.903	1.00	39.12	ES5
ATOM	38670	N	ASN	E	130	162.934	120.930	-4.738	1.00	44.42	ES5
ATOM	38671	CA	ASN	E	130	161.954	121.113	-5.790	1.00	44.42	ES5
ATOM	38672	CB	ASN	E	130	162.230	120.191	-6.965	1.00	42.57	ES5
ATOM	38673	CG	ASN	E	130	163.456	120.595	-7.715	1.00	42.57	ES5
ATOM	38674	OD1	ASN	E	130	163.714	121.790	-7.914	1.00	42.57	ES5
ATOM	38675	ND2	ASN	E	130	164.228	119.606	-8.148	1.00	42.57	ES5
ATOM	38676	C	ASN	E	130	160.542	120.901	-5.276	1.00	44.42	ES5
ATOM	38677	O	ASN	E	130	159.604	121.584	-5.714	1.00	44.42	ES5
ATOM	38678	N	ILE	E	131	160.389	119.957	-4.354	1.00	46.42	ES5
ATOM	38679	CA	ILE	E	131	159.080	119.695	-3.768	1.00	46.42	ES5
ATOM	38680	CB	ILE	E	131	159.152	118.512	-2.762	1.00	44.76	ES5
ATOM	38681	CG2	ILE	E	131	158.097	118.679	-1.666	1.00	44.76	ES5
ATOM	38682	CG1	ILE	E	131	159.001	117.185	-3.510	1.00	44.76	ES5
ATOM	38683	CD1	ILE	E	131	157.734	117.091	-4.330	1.00	44.76	ES5
ATOM	38684	C	ILE	E	131	158.634	120.982	-3.051	1.00	46.42	ES5
ATOM	38685	O	ILE	E	131	157.473	121.429	-3.162	1.00	46.42	ES5
ATOM	38686	N	ALA	E	132	159.574	121.583	-2.327	1.00	36.99	ES5
ATOM	38687	CA	ALA	E	132	159.292	122.818	-1.623	1.00	36.99	ES5
ATOM	38688	CB	ALA	E	132	160.565	123.393	-1.078	1.00	27.81	ES5
ATOM	38689	C	ALA	E	132	158.648	123.786	-2.603	1.00	36.99	ES5
ATOM	38690	O	ALA	E	132	157.468	124.105	-2.485	1.00	36.99	ES5
ATOM	38691	N	TYR	E	133	159.416	124.219	-3.596	1.00	43.54	ES5
ATOM	38692	CA	TYR	E	133	158.911	125.159	-4.590	1.00	43.54	ES5
ATOM	38693	CB	TYR	E	133	159.963	125.385	-5.673	1.00	109.73	ES5
ATOM	38694	CG	TYR	E	133	161.154	126.155	-5.153	1.00	109.73	ES5
ATOM	38695	CD1	TYR	E	133	162.374	126.138	-5.825	1.00	109.73	ES5
ATOM	38696	CE1	TYR	E	133	163.475	126.837	-5.334	1.00	109.73	ES5
ATOM	38697	CD2	TYR	E	133	161.061	126.894	-3.974	1.00	109.73	ES5
ATOM	38698	CE2	TYR	E	133	162.143	127.592	-3.475	1.00	109.73	ES5
ATOM	38699	CZ	TYR	E	133	163.349	127.563	-4.154	1.00	109.73	ES5
ATOM	38700	OH	TYR	E	133	164.429	128.261	-3.652	1.00	109.73	ES5
ATOM	38701	C	TYR	E	133	157.593	124.729	-5.201	1.00	43.54	ES5
ATOM	38702	O	TYR	E	133	156.752	125.574	-5.531	1.00	43.54	ES5
ATOM	38703	N	ALA	E	134	157.406	123.420	-5.347	1.00	42.21	ES5
ATOM	38704	CA	ALA	E	134	156.159	122.907	-5.898	1.00	42.21	ES5
ATOM	38705	CB	ALA	E	134	156.215	121.406	-6.006	1.00	142.48	ES5
ATOM	38706	C	ALA	E	134	155.017	123.319	-4.974	1.00	42.21	ES5
ATOM	38707	O	ALA	E	134	154.033	123.926	-5.409	1.00	42.21	ES5
ATOM	38708	N	THR	E	135	155.156	122.996	-3.694	1.00	52.20	ES5
ATOM	38709	CA	THR	E	135	154.130	123.364	-2.740	1.00	52.20	ES5
ATOM	38710	CB	THR	E	135	154.571	123.069	-1.319	1.00	59.09	ES5
ATOM	38711	OG1	THR	E	135	154.785	121.661	-1.182	1.00	59.09	ES5
ATOM	38712	CG2	THR	E	135	153.504	123.526	-0.322	1.00	59.09	ES5
ATOM	38713	C	THR	E	135	153.809	124.854	-2.845	1.00	52.20	ES5
ATOM	38714	O	THR	E	135	152.671	125.230	-3.135	1.00	52.20	ES5
ATOM	38715	N	MET	E	136	154.812	125.698	-2.609	1.00	59.74	ES5
ATOM	38716	CA	MET	E	136	154.639	127.147	-2.675	1.00	59.74	ES5
ATOM	38717	CB	MET	E	136	155.993	127.846	-2.750	1.00	68.08	ES5
ATOM	38718	CG	MET	E	136	156.744	127.811	-1.455	1.00	68.08	ES5
ATOM	38719	SD	MET	E	136	155.736	128.536	-0.166	1.00	68.08	ES5



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ATOM	38720	CE	MET	E	136	156.516	130.171	-0.010	1.00	68.08	ES5
ATOM	38721	C	MET	E	136	153.806	127.578	-3.865	1.00	59.74	ES5
ATOM	38722	O	MET	E	136	152.818	128.292	-3.711	1.00	59.74	ES5
ATOM	38723	N	GLU	E	137	154.208	127.151	-5.057	1.00	39.18	ES5
ATOM	38724	CA	GLU	E	137	153.475	127.524	-6.250	1.00	39.18	ES5
ATOM	38725	CB	GLU	E	137	154.063	126.843	-7.479	1.00	69.75	ES5
ATOM	38726	CG	GLU	E	137	154.698	127.822	-8.456	1.00	69.75	ES5
ATOM	38727	CD	GLU	E	137	153.712	128.857	-8.964	1.00	69.75	ES5
ATOM	38728	OE1	GLU	E	137	152.657	128.454	-9.504	1.00	69.75	ES5
ATOM	38729	OE2	GLU	E	137	153.992	130.068	-8.823	1.00	69.75	ES5
ATOM	38730	C	GLU	E	137	152.040	127.100	-6.065	1.00	39.18	ES5
ATOM	38731	O	GLU	E	137	151.118	127.897	-6.231	1.00	39.18	ES5
ATOM	38732	N	ALA	E	138	151.861	125.836	-5.702	1.00	42.80	ES5
ATOM	38733	CA	ALA	E	138	150.538	125.287	-5.470	1.00	42.80	ES5
ATOM	38734	CB	ALA	E	138	150.667	123.953	-4.801	1.00	30.79	ES5
ATOM	38735	C	ALA	E	138	149.702	126.229	-4.603	1.00	42.80	ES5
ATOM	38736	O	ALA	E	138	148.601	126.622	-4.984	1.00	42.80	ES5
ATOM	38737	N	LEU	E	139	150.219	126.592	-3.434	1.00	53.45	ES5
ATOM	38738	CA	LEU	E	139	149.483	127.492	-2.563	1.00	53.45	ES5
ATOM	38739	CB	LEU	E	139	150.310	127.844	-1.326	1.00	26.60	ES5
ATOM	38740	CG	LEU	E	139	150.607	126.651	-0.401	1.00	26.60	ES5
ATOM	38741	CD1	LEU	E	139	151.535	127.109	0.707	1.00	26.60	ES5
ATOM	38742	CD2	LEU	E	139	149.322	126.071	0.199	1.00	26.60	ES5
ATOM	38743	C	LEU	E	139	149.116	128.748	-3.335	1.00	53.45	ES5
ATOM	38744	O	LEU	E	139	147.950	129.139	-3.355	1.00	53.45	ES5
ATOM	38745	N	ARG	E	140	150.103	129.364	-3.986	1.00	49.36	ES5
ATOM	38746	CA	ARG	E	140	149.875	130.573	-4.779	1.00	49.36	ES5
ATOM	38747	CB	ARG	E	140	151.075	130.886	-5.669	1.00	62.75	ES5
ATOM	38748	CG	ARG	E	140	152.247	131.538	-4.996	1.00	62.75	ES5
ATOM	38749	CD	ARG	E	140	153.093	132.296	-6.019	1.00	62.75	ES5
ATOM	38750	NE	ARG	E	140	154.343	132.724	-5.414	1.00	62.75	ES5
ATOM	38751	CZ	ARG	E	140	155.344	131.895	-5.131	1.00	62.75	ES5
ATOM	38752	NH1	ARG	E	140	155.241	130.599	-5.418	1.00	62.75	ES5
ATOM	38753	NH2	ARG	E	140	156.439	132.346	-4.527	1.00	62.75	ES5
ATOM	38754	C	ARG	E	140	148.657	130.499	-5.699	1.00	49.36	ES5
ATOM	38755	O	ARG	E	140	147.859	131.432	-5.773	1.00	49.36	ES5
ATOM	38756	N	GLN	E	141	148.517	129.395	-6.415	1.00	43.26	ES5
ATOM	38757	CA	GLN	E	141	147.410	129.262	-7.346	1.00	43.26	ES5
ATOM	38758	CB	GLN	E	141	147.735	128.170	-8.366	1.00	71.54	ES5
ATOM	38759	CG	GLN	E	141	149.114	128.322	-8.973	1.00	71.54	ES5
ATOM	38760	CD	GLN	E	141	149.308	127.467	-10.198	1.00	71.54	ES5
ATOM	38761	OE1	GLN	E	141	149.113	126.258	-10.159	1.00	71.54	ES5
ATOM	38762	NE2	GLN	E	141	149.696	128.096	-11.303	1.00	71.54	ES5
ATOM	38763	C	GLN	E	141	146.035	129.008	-6.719	1.00	43.26	ES5
ATOM	38764	O	GLN	E	141	145.007	129.163	-7.397	1.00	43.26	ES5
ATOM	38765	N	LEU	E	142	146.004	128.614	-5.447	1.00	41.27	ES5
ATOM	38766	CA	LEU	E	142	144.732	128.374	-4.780	1.00	41.27	ES5
ATOM	38767	CB	LEU	E	142	144.940	128.212	-3.286	1.00	40.47	ES5
ATOM	38768	CG	LEU	E	142	145.627	126.929	-2.875	1.00	40.47	ES5
ATOM	38769	CD1	LEU	E	142	145.745	126.880	-1.361	1.00	40.47	ES5
ATOM	38770	CD2	LEU	E	142	144.801	125.761	-3.396	1.00	40.47	ES5
ATOM	38771	C	LEU	E	142	143.830	129.573	-5.001	1.00	41.27	ES5
ATOM	38772	O	LEU	E	142	144.296	130.715	-4.906	1.00	41.27	ES5
ATOM	38773	N	ARG	E	143	142.551	129.329	-5.284	1.00	58.96	ES5
ATOM	38774	CA	ARG	E	143	141.602	130.423	-5.497	1.00	58.96	ES5
ATOM	38775	CB	ARG	E	143	141.282	130.573	-6.979	1.00	49.69	ES5
ATOM	38776	CG	ARG	E	143	142.474	130.987	-7.781	1.00	49.69	ES5
ATOM	38777	CD	ARG	E	143	143.054	132.222	-7.170	1.00	49.69	ES5
ATOM	38778	NE	ARG	E	143	144.502	132.257	-7.304	1.00	49.69	ES5
ATOM	38779	CZ	ARG	E	143	145.136	132.511	-8.438	1.00	49.69	ES5
ATOM	38780	NH1	ARG	E	143	144.431	132.753	-9.533	1.00	49.69	ES5
ATOM	38781	NH2	ARG	E	143	146.466	132.527	-8.472	1.00	49.69	ES5
ATOM	38782	C	ARG	E	143	140.309	130.225	-4.730	1.00	58.96	ES5
ATOM	38783	O	ARG	E	143	139.921	129.099	-4.442	1.00	58.96	ES5
ATOM	38784	N	THR	E	144	139.639	131.327	-4.411	1.00	58.01	ES5
ATOM	38785	CA	THR	E	144	138.380	131.293	-3.678	1.00	58.01	ES5
ATOM	38786	CB	THR	E	144	138.334	132.383	-2.640	1.00	82.50	ES5
ATOM	38787	OG1	THR	E	144	139.358	132.136	-1.676	1.00	82.50	ES5
ATOM	38788	CG2	THR	E	144	136.971	132.417	-1.955	1.00	82.50	ES5
ATOM	38789	C	THR	E	144	137.225	131.518	-4.615	1.00	58.01	ES5
ATOM	38790	O	THR	E	144	137.375	132.219	-5.615	1.00	58.01	ES5
ATOM	38791	N	LYS	E	145	136.068	130.944	-4.289	1.00	71.74	ES5
ATOM	38792	CA	LYS	E	145	134.910	131.118	-5.150	1.00	71.74	ES5
ATOM	38793	CB	LYS	E	145	133.659	130.456	-4.579	1.00	91.98	ES5
ATOM	38794	CG	LYS	E	145	132.545	130.404	-5.618	1.00	91.98	ES5
ATOM	38795	CD	LYS	E	145	131.290	129.748	-5.097	1.00	91.98	ES5
ATOM	38796	CE	LYS	E	145	130.183	129.789	-6.144	1.00	91.98	ES5



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ATOM	38797	NZ	LYS	E	145	128.873	129.368	-5.564	1.00	91.98	ES5
ATOM	38798	C	LYS	E	145	134.667	132.603	-5.328	1.00	71.74	ES5
ATOM	38799	O	LYS	E	145	134.068	133.034	-6.313	1.00	71.74	ES5
ATOM	38800	N	ALA	E	146	135.132	133.387	-4.364	1.00	52.34	ES5
ATOM	38801	CA	ALA	E	146	134.991	134.823	-4.458	1.00	52.34	ES5
ATOM	38802	CB	ALA	E	146	135.621	135.486	-3.260	1.00	59.20	ES5
ATOM	38803	C	ALA	E	146	135.761	135.179	-5.713	1.00	52.34	ES5
ATOM	38804	O	ALA	E	146	135.203	135.708	-6.673	1.00	52.34	ES5
ATOM	38805	N	ASP	E	147	137.049	134.846	-5.698	1.00	40.19	ES5
ATOM	38806	CA	ASP	E	147	137.951	135.110	-6.809	1.00	40.19	ES5
ATOM	38807	CB	ASP	E	147	139.277	134.454	-6.521	1.00	55.12	ES5
ATOM	38808	CG	ASP	E	147	139.792	134.828	-5.183	1.00	55.12	ES5
ATOM	38809	OD1	ASP	E	147	139.725	136.028	-4.881	1.00	55.12	ES5
ATOM	38810	OD2	ASP	E	147	140.259	133.948	-4.437	1.00	55.12	ES5
ATOM	38811	C	ASP	E	147	137.438	134.613	-8.143	1.00	40.19	ES5
ATOM	38812	O	ASP	E	147	137.342	135.364	-9.118	1.00	40.19	ES5
ATOM	38813	N	VAL	E	148	137.131	133.327	-8.192	1.00	47.37	ES5
ATOM	38814	CA	VAL	E	148	136.645	132.756	-9.424	1.00	47.37	ES5
ATOM	38815	CB	VAL	E	148	136.187	131.318	-9.231	1.00	76.27	ES5
ATOM	38816	CG1	VAL	E	148	135.902	130.692	-10.579	1.00	76.27	ES5
ATOM	38817	CG2	VAL	E	148	137.252	130.534	-8.485	1.00	76.27	ES5
ATOM	38818	C	VAL	E	148	135.470	133.586	-9.879	1.00	47.37	ES5
ATOM	38819	O	VAL	E	148	135.375	133.932	-11.061	1.00	47.37	ES5
ATOM	38820	N	GLU	E	149	134.588	133.913	-8.928	1.00	60.12	ES5
ATOM	38821	CA	GLU	E	149	133.382	134.702	-9.204	1.00	60.12	ES5
ATOM	38822	CB	GLU	E	149	132.587	134.951	-7.923	1.00	198.31	ES5
ATOM	38823	CG	GLU	E	149	131.370	135.837	-8.126	1.00	198.31	ES5
ATOM	38824	CD	GLU	E	149	130.830	136.395	-6.824	1.00	198.31	ES5
ATOM	38825	OE1	GLU	E	149	131.598	137.074	-6.108	1.00	198.31	ES5
ATOM	38826	OE2	GLU	E	149	129.642	136.162	-6.516	1.00	198.31	ES5
ATOM	38827	C	GLU	E	149	133.798	136.027	-9.794	1.00	60.12	ES5
ATOM	38828	O	GLU	E	149	133.221	136.496	-10.781	1.00	60.12	ES5
ATOM	38829	N	ARG	E	150	134.817	136.611	-9.171	1.00	55.72	ES5
ATOM	38830	CA	ARG	E	150	135.381	137.884	-9.587	1.00	55.72	ES5
ATOM	38831	CB	ARG	E	150	136.523	138.270	-8.648	1.00	188.18	ES5
ATOM	38832	CG	ARG	E	150	136.231	139.485	-7.799	1.00	188.18	ES5
ATOM	38833	CD	ARG	E	150	135.913	140.667	-8.692	1.00	188.18	ES5
ATOM	38834	NE	ARG	E	150	135.939	141.937	-7.977	1.00	188.18	ES5
ATOM	38835	CZ	ARG	E	150	137.020	142.444	-7.390	1.00	188.18	ES5
ATOM	38836	NH1	ARG	E	150	138.172	141.784	-7.428	1.00	188.18	ES5
ATOM	38837	NH2	ARG	E	150	136.953	143.619	-6.775	1.00	188.18	ES5
ATOM	38838	C	ARG	E	150	135.887	137.829	-11.032	1.00	55.72	ES5
ATOM	38839	O	ARG	E	150	135.495	138.648	-11.853	1.00	55.72	ES5
ATOM	38840	N	LEU	E	151	136.737	136.857	-11.353	1.00	67.13	ES5
ATOM	38841	CA	LEU	E	151	137.275	136.761	-12.707	1.00	67.13	ES5
ATOM	38842	CB	LEU	E	151	138.318	135.653	-12.797	1.00	55.81	ES5
ATOM	38843	CG	LEU	E	151	139.539	135.817	-11.894	1.00	55.81	ES5
ATOM	38844	CD1	LEU	E	151	140.552	134.760	-12.262	1.00	55.81	ES5
ATOM	38845	CD2	LEU	E	151	140.148	137.200	-12.066	1.00	55.81	ES5
ATOM	38846	C	LEU	E	151	136.245	136.544	-13.800	1.00	67.13	ES5
ATOM	38847	O	LEU	E	151	136.434	136.999	-14.924	1.00	67.13	ES5
ATOM	38848	N	ARG	E	152	135.157	135.853	-13.489	1.00	49.78	ES5
ATOM	38849	CA	ARG	E	152	134.142	135.595	-14.497	1.00	49.78	ES5
ATOM	38850	CB	ARG	E	152	133.584	134.203	-14.309	1.00	72.84	ES5
ATOM	38851	CG	ARG	E	152	134.625	133.190	-13.974	1.00	72.84	ES5
ATOM	38852	CD	ARG	E	152	133.954	131.859	-13.763	1.00	72.84	ES5
ATOM	38853	NE	ARG	E	152	134.905	130.798	-13.457	1.00	72.84	ES5
ATOM	38854	CZ	ARG	E	152	134.543	129.552	-13.175	1.00	72.84	ES5
ATOM	38855	NH1	ARG	E	152	133.252	129.231	-13.163	1.00	72.84	ES5
ATOM	38856	NH2	ARG	E	152	135.470	128.637	-12.906	1.00	72.84	ES5
ATOM	38857	C	ARG	E	152	132.986	136.596	-14.489	1.00	49.78	ES5
ATOM	38858	O	ARG	E	152	131.930	136.323	-15.065	1.00	49.78	ES5
ATOM	38859	N	LYS	E	153	133.173	137.741	-13.832	1.00	96.62	ES5
ATOM	38860	CA	LYS	E	153	132.136	138.777	-13.778	1.00	96.62	ES5
ATOM	38861	CB	LYS	E	153	132.475	139.830	-12.717	1.00	136.91	ES5
ATOM	38862	CG	LYS	E	153	131.954	139.540	-11.308	1.00	136.91	ES5
ATOM	38863	CD	LYS	E	153	130.567	140.145	-11.064	1.00	136.91	ES5
ATOM	38864	CE	LYS	E	153	130.172	140.058	-9.586	1.00	136.91	ES5
ATOM	38865	NZ	LYS	E	153	128.871	140.731	-9.280	1.00	136.91	ES5
ATOM	38866	C	LYS	E	153	132.009	139.458	-15.139	1.00	96.62	ES5
ATOM	38867	O	LYS	E	153	132.116	138.807	-16.177	1.00	96.62	ES5
ATOM	38868	N	GLY	E	154	131.778	140.767	-15.131	1.00	166.05	ES5
ATOM	38869	CA	GLY	E	154	131.646	141.508	-16.376	1.00	166.05	ES5
ATOM	38870	C	GLY	E	154	130.488	141.057	-17.249	1.00	166.05	ES5
ATOM	38871	O	GLY	E	154	129.778	140.107	-16.858	1.00	166.05	ES5
ATOM	38872	OXT	GLY	E	154	130.284	141.652	-18.330	1.00	93.67	ES5
TER	38872		GLY	E	154						ES5



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ATOM	38873	CB	MET	F	1	156.971	113.569	-84.755	1.00146.62	FS6
ATOM	38874	CG	MET	F	1	156.578	112.498	-85.729	1.00146.62	FS6
ATOM	38875	SD	MET	F	1	157.003	113.073	-87.363	1.00146.62	FS6
ATOM	38876	CE	MET	F	1	156.094	114.622	-87.409	1.00146.62	FS6
ATOM	38877	C	MET	F	1	157.256	114.391	-82.463	1.00104.93	FS6
ATOM	38878	O	MET	F	1	156.456	115.273	-82.153	1.00104.93	FS6
ATOM	38879	N	MET	F	1	155.428	112.767	-82.989	1.00104.93	FS6
ATOM	38880	CA	MET	F	1	156.823	113.193	-83.288	1.00104.93	FS6
ATOM	38881	N	ARG	F	2	158.539	114.426	-82.132	1.00 83.05	FS6
ATOM	38882	CA	ARG	F	2	159.097	115.519	-81.358	1.00 83.05	FS6
ATOM	38883	CB	ARG	F	2	159.791	114.970	-80.107	1.00 93.07	FS6
ATOM	38884	CG	ARG	F	2	158.855	114.230	-79.157	1.00 93.07	FS6
ATOM	38885	CD	ARG	F	2	159.626	113.503	-78.069	1.00 93.07	FS6
ATOM	38886	NE	ARG	F	2	158.752	112.636	-77.280	1.00 93.07	FS6
ATOM	38887	CZ	ARG	F	2	159.161	111.573	-76.582	1.00 93.07	FS6
ATOM	38888	NH1	ARG	F	2	160.445	111.227	-76.566	1.00 93.07	FS6
ATOM	38889	NH2	ARG	F	2	158.281	110.847	-75.898	1.00 93.07	FS6
ATOM	38890	C	ARG	F	2	160.087	116.277	-82.236	1.00 83.05	FS6
ATOM	38891	O	ARG	F	2	160.507	115.780	-83.284	1.00 83.05	FS6
ATOM	38892	N	ARG	F	3	160.453	117.477	-81.801	1.00102.10	FS6
ATOM	38893	CA	ARG	F	3	161.382	118.328	-82.537	1.00102.10	FS6
ATOM	38894	CB	ARG	F	3	160.903	119.773	-82.442	1.00179.73	FS6
ATOM	38895	CG	ARG	F	3	161.521	120.729	-83.430	1.00179.73	FS6
ATOM	38896	CD	ARG	F	3	160.912	122.096	-83.222	1.00179.73	FS6
ATOM	38897	NE	ARG	F	3	161.351	123.074	-84.207	1.00179.73	FS6
ATOM	38898	CZ	ARG	F	3	160.970	124.346	-84.197	1.00179.73	FS6
ATOM	38899	NH1	ARG	F	3	160.146	124.781	-83.251	1.00179.73	FS6
ATOM	38900	NH2	ARG	F	3	161.408	125.184	-85.128	1.00179.73	FS6
ATOM	38901	C	ARG	F	3	162.792	118.200	-81.958	1.00102.10	FS6
ATOM	38902	O	ARG	F	3	162.980	118.279	-80.739	1.00102.10	FS6
ATOM	38903	N	TYR	F	4	163.779	118.016	-82.834	1.00 93.20	FS6
ATOM	38904	CA	TYR	F	4	165.170	117.856	-82.406	1.00 93.20	FS6
ATOM	38905	CB	TYR	F	4	165.622	116.420	-82.653	1.00 95.93	FS6
ATOM	38906	CG	TYR	F	4	164.838	115.397	-81.884	1.00 95.93	FS6
ATOM	38907	CD1	TYR	F	4	164.996	115.262	-80.507	1.00 95.93	FS6
ATOM	38908	CE1	TYR	F	4	164.268	114.320	-79.792	1.00 95.93	FS6
ATOM	38909	CD2	TYR	F	4	163.929	114.567	-82.531	1.00 95.93	FS6
ATOM	38910	CE2	TYR	F	4	163.193	113.627	-81.831	1.00 95.93	FS6
ATOM	38911	CZ	TYR	F	4	163.368	113.504	-80.462	1.00 95.93	FS6
ATOM	38912	OH	TYR	F	4	162.657	112.546	-79.774	1.00 95.93	FS6
ATOM	38913	C	TYR	F	4	166.177	118.789	-83.077	1.00 93.20	FS6
ATOM	38914	O	TYR	F	4	165.824	119.781	-83.706	1.00 93.20	FS6
ATOM	38915	N	GLU	F	5	167.448	118.440	-82.927	1.00 77.01	FS6
ATOM	38916	CA	GLU	F	5	168.550	119.189	-83.503	1.00 77.01	FS6
ATOM	38917	CB	GLU	F	5	168.975	120.326	-82.582	1.00 65.30	FS6
ATOM	38918	CG	GLU	F	5	168.256	121.618	-82.834	1.00 65.30	FS6
ATOM	38919	CD	GLU	F	5	168.689	122.722	-81.879	1.00 65.30	FS6
ATOM	38920	OE1	GLU	F	5	169.918	122.945	-81.729	1.00 65.30	FS6
ATOM	38921	OE2	GLU	F	5	167.792	123.371	-81.284	1.00 65.30	FS6
ATOM	38922	C	GLU	F	5	169.720	118.245	-83.687	1.00 77.01	FS6
ATOM	38923	O	GLU	F	5	170.372	117.860	-82.718	1.00 77.01	FS6
ATOM	38924	N	VAL	F	6	169.979	117.854	-84.926	1.00 76.09	FS6
ATOM	38925	CA	VAL	F	6	171.103	116.974	-85.180	1.00 76.09	FS6
ATOM	38926	CB	VAL	F	6	170.916	116.135	-86.464	1.00 72.34	FS6
ATOM	38927	CG1	VAL	F	6	172.168	115.284	-86.708	1.00 72.34	FS6
ATOM	38928	CG2	VAL	F	6	169.710	115.236	-86.329	1.00 72.34	FS6
ATOM	38929	C	VAL	F	6	172.380	117.794	-85.331	1.00 76.09	FS6
ATOM	38930	O	VAL	F	6	172.369	118.905	-85.859	1.00 76.09	FS6
ATOM	38931	N	ASN	F	7	173.478	117.238	-84.844	1.00 84.14	FS6
ATOM	38932	CA	ASN	F	7	174.769	117.884	-84.940	1.00 84.14	FS6
ATOM	38933	CB	ASN	F	7	175.290	118.236	-83.560	1.00 64.50	FS6
ATOM	38934	CG	ASN	F	7	174.821	119.577	-83.112	1.00 64.50	FS6
ATOM	38935	OD1	ASN	F	7	175.340	120.601	-83.558	1.00 64.50	FS6
ATOM	38936	ND2	ASN	F	7	173.815	119.597	-82.243	1.00 64.50	FS6
ATOM	38937	C	ASN	F	7	175.690	116.892	-85.590	1.00 84.14	FS6
ATOM	38938	O	ASN	F	7	175.711	115.722	-85.205	1.00 84.14	FS6
ATOM	38939	N	ILE	F	8	176.436	117.340	-86.591	1.00 76.93	FS6
ATOM	38940	CA	ILE	F	8	177.360	116.448	-87.253	1.00 76.93	FS6
ATOM	38941	CB	ILE	F	8	176.724	115.814	-88.497	1.00 63.99	FS6
ATOM	38942	CG2	ILE	F	8	177.741	114.947	-89.208	1.00 63.99	FS6
ATOM	38943	CG1	ILE	F	8	175.533	114.951	-88.072	1.00 63.99	FS6
ATOM	38944	CD1	ILE	F	8	174.885	114.170	-89.191	1.00 63.99	FS6
ATOM	38945	C	ILE	F	8	178.649	117.151	-87.626	1.00 76.93	FS6
ATOM	38946	O	ILE	F	8	178.647	118.139	-88.356	1.00 76.93	FS6
ATOM	38947	N	VAL	F	9	179.751	116.644	-87.087	1.00 74.97	FS6
ATOM	38948	CA	VAL	F	9	181.061	117.200	-87.365	1.00 74.97	FS6
ATOM	38949	CB	VAL	F	9	181.811	117.578	-86.088	1.00 74.19	FS6



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ATOM	38950	CG1	VAL	F	9	182.969	118.483	-86.434	1.00	74.19	FS6
ATOM	38951	CG2	VAL	F	9	180.884	118.248	-85.117	1.00	74.19	FS6
ATOM	38952	C	VAL	F	9	181.843	116.107	-88.054	1.00	74.97	FS6
ATOM	38953	O	VAL	F	9	182.233	115.118	-87.428	1.00	74.97	FS6
ATOM	38954	N	LEU	F	10	182.057	116.277	-89.350	1.00	94.30	FS6
ATOM	38955	CA	LEU	F	10	182.792	115.290	-90.118	1.00	94.30	FS6
ATOM	38956	CB	LEU	F	10	181.941	114.804	-91.301	1.00	88.86	FS6
ATOM	38957	CG	LEU	F	10	181.187	115.859	-92.113	1.00	88.86	FS6
ATOM	38958	CD1	LEU	F	10	182.158	116.684	-92.941	1.00	88.86	FS6
ATOM	38959	CD2	LEU	F	10	180.183	115.167	-93.011	1.00	88.86	FS6
ATOM	38960	C	LEU	F	10	184.133	115.824	-90.599	1.00	94.30	FS6
ATOM	38961	O	LEU	F	10	184.397	117.027	-90.546	1.00	94.30	FS6
ATOM	38962	N	ASN	F	11	184.973	114.905	-91.057	1.00	92.95	FS6
ATOM	38963	CA	ASN	F	11	186.307	115.211	-91.551	1.00	92.95	FS6
ATOM	38964	CB	ASN	F	11	186.774	114.078	-92.444	1.00	72.15	FS6
ATOM	38965	CG	ASN	F	11	188.240	114.128	-92.688	1.00	72.15	FS6
ATOM	38966	OD1	ASN	F	11	188.794	115.192	-92.969	1.00	72.15	FS6
ATOM	38967	ND2	ASN	F	11	188.893	112.977	-92.581	1.00	72.15	FS6
ATOM	38968	C	ASN	F	11	186.398	116.525	-92.325	1.00	92.95	FS6
ATOM	38969	O	ASN	F	11	185.671	116.740	-93.290	1.00	92.95	FS6
ATOM	38970	N	PRO	F	12	187.314	117.412	-91.926	1.00	71.37	FS6
ATOM	38971	CD	PRO	F	12	188.191	117.310	-90.747	1.00	81.77	FS6
ATOM	38972	CA	PRO	F	12	187.489	118.708	-92.590	1.00	71.37	FS6
ATOM	38973	CB	PRO	F	12	188.070	119.570	-91.486	1.00	81.77	FS6
ATOM	38974	CG	PRO	F	12	189.015	118.604	-90.836	1.00	81.77	FS6
ATOM	38975	C	PRO	F	12	188.421	118.651	-93.790	1.00	71.37	FS6
ATOM	38976	O	PRO	F	12	189.050	119.649	-94.139	1.00	71.37	FS6
ATOM	38977	N	ASN	F	13	188.517	117.492	-94.424	1.00138.00		FS6
ATOM	38978	CA	ASN	F	13	189.408	117.367	-95.564	1.00138.00		FS6
ATOM	38979	CB	ASN	F	13	190.598	116.485	-95.194	1.00	95.10	FS6
ATOM	38980	CG	ASN	F	13	191.324	116.981	-93.967	1.00	95.10	FS6
ATOM	38981	OD1	ASN	F	13	191.671	118.159	-93.875	1.00	95.10	FS6
ATOM	38982	ND2	ASN	F	13	191.568	116.083	-93.017	1.00	95.10	FS6
ATOM	38983	C	ASN	F	13	188.733	116.806	-96.800	1.00138.00		FS6
ATOM	38984	O	ASN	F	13	189.392	116.519	-97.796	1.00138.00		FS6
ATOM	38985	N	LEU	F	14	187.419	116.651	-96.745	1.00113.96		FS6
ATOM	38986	CA	LEU	F	14	186.705	116.110	-97.887	1.00113.96		FS6
ATOM	38987	CB	LEU	F	14	185.276	115.746	-97.481	1.00	86.70	FS6
ATOM	38988	CG	LEU	F	14	185.166	114.946	-96.181	1.00	86.70	FS6
ATOM	38989	CD1	LEU	F	14	183.799	114.286	-96.114	1.00	86.70	FS6
ATOM	38990	CD2	LEU	F	14	186.257	113.887	-96.119	1.00	86.70	FS6
ATOM	38991	C	LEU	F	14	186.689	117.123	-99.023	1.00113.96		FS6
ATOM	38992	O	LEU	F	14	186.486	118.316	-98.789	1.00113.96		FS6
ATOM	38993	N	ASP	F	15	186.927	116.654	-100.247	1.00115.45		FS6
ATOM	38994	CA	ASP	F	15	186.909	117.547	-101.400	1.00115.45		FS6
ATOM	38995	CB	ASP	F	15	187.708	116.964	-102.569	1.00177.81		FS6
ATOM	38996	CG	ASP	F	15	187.027	115.771	-103.210	1.00177.81		FS6
ATOM	38997	OD1	ASP	F	15	185.860	115.903	-103.634	1.00177.81		FS6
ATOM	38998	OD2	ASP	F	15	187.664	114.702	-103.300	1.00177.81		FS6
ATOM	38999	C	ASP	F	15	185.454	117.731	-101.803	1.00115.45		FS6
ATOM	39000	O	ASP	F	15	184.604	116.901	-101.469	1.00115.45		FS6
ATOM	39001	N	GLN	F	16	185.173	118.811	-102.523	1.00111.64		FS6
ATOM	39002	CA	GLN	F	16	183.815	119.121	-102.950	1.00111.64		FS6
ATOM	39003	CB	GLN	F	16	183.847	120.011	-104.193	1.00188.09		FS6
ATOM	39004	CG	GLN	F	16	182.469	120.468	-104.629	1.00188.09		FS6
ATOM	39005	CD	GLN	F	16	181.641	120.970	-103.461	1.00188.09		FS6
ATOM	39006	OE1	GLN	F	16	182.039	121.898	-102.756	1.00188.09		FS6
ATOM	39007	NE2	GLN	F	16	180.484	120.353	-103.248	1.00188.09		FS6
ATOM	39008	C	GLN	F	16	182.927	117.905	-103.218	1.00111.64		FS6
ATOM	39009	O	GLN	F	16	181.736	117.914	-102.893	1.00111.64		FS6
ATOM	39010	N	SER	F	17	183.502	116.862	-103.806	1.00110.25		FS6
ATOM	39011	CA	SER	F	17	182.746	115.653	-104.114	1.00110.25		FS6
ATOM	39012	CB	SER	F	17	183.440	114.866	-105.226	1.00168.49		FS6
ATOM	39013	OG	SER	F	17	183.540	115.640	-106.408	1.00168.49		FS6
ATOM	39014	C	SER	F	17	182.577	114.760	-102.894	1.00110.25		FS6
ATOM	39015	O	SER	F	17	181.458	114.499	-102.455	1.00110.25		FS6
ATOM	39016	N	GLN	F	18	183.697	114.288	-102.359	1.00104.22		FS6
ATOM	39017	CA	GLN	F	18	183.692	113.422	-101.188	1.00104.22		FS6
ATOM	39018	CB	GLN	F	18	185.104	113.318	-100.618	1.00164.41		FS6
ATOM	39019	CG	GLN	F	18	186.140	112.778	-101.581	1.00164.41		FS6
ATOM	39020	CD	GLN	F	18	187.558	113.013	-101.087	1.00164.41		FS6
ATOM	39021	OE1	GLN	F	18	188.523	112.514	-101.667	1.00164.41		FS6
ATOM	39022	NE2	GLN	F	18	187.690	113.787	-100.013	1.00164.41		FS6
ATOM	39023	C	GLN	F	18	182.768	113.971	-100.108	1.00104.22		FS6
ATOM	39024	O	GLN	F	18	182.004	113.225	-99.493	1.00104.22		FS6
ATOM	39025	N	LEU	F	19	182.853	115.283	-99.889	1.00	88.85	FS6
ATOM	39026	CA	LEU	F	19	182.052	115.975	-98.878	1.00	88.85	FS6



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ATOM	39027	CB	LEU	F	19	182.525	117.425	-98.730	1.00	73.89	FS6
ATOM	39028	CG	LEU	F	19	181.760	118.301	-97.726	1.00	73.89	FS6
ATOM	39029	CD1	LEU	F	19	182.561	119.566	-97.485	1.00	73.89	FS6
ATOM	39030	CD2	LEU	F	19	180.355	118.641	-98.230	1.00	73.89	FS6
ATOM	39031	C	LEU	F	19	180.555	115.972	-99.150	1.00	88.85	FS6
ATOM	39032	O	LEU	F	19	179.780	115.418	-98.374	1.00	88.85	FS6
ATOM	39033	N	ALA	F	20	180.149	116.624	-100.234	1.00107.15		FS6
ATOM	39034	CA	ALA	F	20	178.741	116.686	-100.587	1.00107.15		FS6
ATOM	39035	CB	ALA	F	20	178.560	117.512	-101.848	1.00141.68		FS6
ATOM	39036	C	ALA	F	20	178.190	115.267	-100.783	1.00107.15		FS6
ATOM	39037	O	ALA	F	20	176.987	115.075	-100.984	1.00107.15		FS6
ATOM	39038	N	LEU	F	21	179.082	114.279	-100.722	1.00	97.00	FS6
ATOM	39039	CA	LEU	F	21	178.712	112.871	-100.862	1.00	97.00	FS6
ATOM	39040	CB	LEU	F	21	179.919	112.040	-101.303	1.00107.16		FS6
ATOM	39041	CG	LEU	F	21	179.933	110.603	-100.756	1.00107.16		FS6
ATOM	39042	CD1	LEU	F	21	178.779	109.800	-101.366	1.00107.16		FS6
ATOM	39043	CD2	LEU	F	21	181.287	109.949	-101.044	1.00107.16		FS6
ATOM	39044	C	LEU	F	21	178.217	112.332	-99.525	1.00	97.00	FS6
ATOM	39045	O	LEU	F	21	177.207	111.633	-99.460	1.00	97.00	FS6
ATOM	39046	N	GLU	F	22	178.955	112.639	-98.463	1.00101.70		FS6
ATOM	39047	CA	GLU	F	22	178.589	112.185	-97.130	1.00101.70		FS6
ATOM	39048	CB	GLU	F	22	179.679	112.565	-96.123	1.00	97.94	FS6
ATOM	39049	CG	GLU	F	22	181.059	111.983	-96.455	1.00	97.94	FS6
ATOM	39050	CD	GLU	F	22	181.212	110.525	-96.045	1.00	97.94	FS6
ATOM	39051	OE1	GLU	F	22	180.270	109.736	-96.256	1.00	97.94	FS6
ATOM	39052	OE2	GLU	F	22	182.285	110.163	-95.520	1.00	97.94	FS6
ATOM	39053	C	GLU	F	22	177.258	112.823	-96.755	1.00101.70		FS6
ATOM	39054	O	GLU	F	22	176.457	112.217	-96.042	1.00101.70		FS6
ATOM	39055	N	LYS	F	23	177.027	114.043	-97.246	1.00	86.24	FS6
ATOM	39056	CA	LYS	F	23	175.778	114.757	-96.983	1.00	86.24	FS6
ATOM	39057	CB	LYS	F	23	175.779	116.137	-97.635	1.00	88.91	FS6
ATOM	39058	CG	LYS	F	23	176.858	117.072	-97.152	1.00	88.91	FS6
ATOM	39059	CD	LYS	F	23	176.634	118.465	-97.717	1.00	88.91	FS6
ATOM	39060	CE	LYS	F	23	175.248	118.990	-97.334	1.00	88.91	FS6
ATOM	39061	NZ	LYS	F	23	174.982	120.392	-97.799	1.00	88.91	FS6
ATOM	39062	C	LYS	F	23	174.679	113.925	-97.610	1.00	86.24	FS6
ATOM	39063	O	LYS	F	23	173.561	113.846	-97.098	1.00	86.24	FS6
ATOM	39064	N	GLU	F	24	175.014	113.321	-98.746	1.00	87.85	FS6
ATOM	39065	CA	GLU	F	24	174.089	112.460	-99.456	1.00	87.85	FS6
ATOM	39066	CB	GLU	F	24	174.809	111.774	-100.624	1.00177.85		FS6
ATOM	39067	CG	GLU	F	24	174.145	110.517	-101.175	1.00177.85		FS6
ATOM	39068	CD	GLU	F	24	172.781	110.781	-101.777	1.00177.85		FS6
ATOM	39069	OE1	GLU	F	24	172.665	111.703	-102.612	1.00177.85		FS6
ATOM	39070	OE2	GLU	F	24	171.828	110.057	-101.419	1.00177.85		FS6
ATOM	39071	C	GLU	F	24	173.632	111.439	-98.430	1.00	87.85	FS6
ATOM	39072	O	GLU	F	24	172.482	111.459	-97.991	1.00	87.85	FS6
ATOM	39073	N	ILE	F	25	174.554	110.571	-98.026	1.00106.74		FS6
ATOM	39074	CA	ILE	F	25	174.262	109.534	-97.043	1.00106.74		FS6
ATOM	39075	CB	ILE	F	25	175.561	108.903	-96.522	1.00138.33		FS6
ATOM	39076	CG2	ILE	F	25	175.243	107.779	-95.546	1.00138.33		FS6
ATOM	39077	CG1	ILE	F	25	176.370	108.380	-97.711	1.00138.33		FS6
ATOM	39078	CD1	ILE	F	25	177.627	107.644	-97.342	1.00138.33		FS6
ATOM	39079	C	ILE	F	25	173.449	110.085	-95.874	1.00106.74		FS6
ATOM	39080	O	ILE	F	25	172.459	109.474	-95.463	1.00106.74		FS6
ATOM	39081	N	ILE	F	26	173.866	111.236	-95.346	1.00	71.45	FS6
ATOM	39082	CA	ILE	F	26	173.148	111.871	-94.245	1.00	71.45	FS6
ATOM	39083	CB	ILE	F	26	173.758	113.247	-93.854	1.00	49.98	FS6
ATOM	39084	CG2	ILE	F	26	172.810	113.973	-92.907	1.00	49.98	FS6
ATOM	39085	CG1	ILE	F	26	175.142	113.077	-93.211	1.00	49.98	FS6
ATOM	39086	CD1	ILE	F	26	175.811	114.397	-92.822	1.00	49.98	FS6
ATOM	39087	C	ILE	F	26	171.718	112.119	-94.711	1.00	71.45	FS6
ATOM	39088	O	ILE	F	26	170.799	111.375	-94.363	1.00	71.45	FS6
ATOM	39089	N	GLN	F	27	171.548	113.175	-95.502	1.00	62.44	FS6
ATOM	39090	CA	GLN	F	27	170.249	113.544	-96.046	1.00	62.44	FS6
ATOM	39091	CB	GLN	F	27	170.441	114.362	-97.325	1.00144.17		FS6
ATOM	39092	CG	GLN	F	27	170.778	115.817	-97.086	1.00144.17		FS6
ATOM	39093	CD	GLN	F	27	169.583	116.608	-96.584	1.00144.17		FS6
ATOM	39094	OE1	GLN	F	27	169.682	117.809	-96.337	1.00144.17		FS6
ATOM	39095	NE2	GLN	F	27	168.444	115.936	-96.436	1.00144.17		FS6
ATOM	39096	C	GLN	F	27	169.395	112.316	-96.350	1.00	62.44	FS6
ATOM	39097	O	GLN	F	27	168.179	112.331	-96.161	1.00	62.44	FS6
ATOM	39098	N	ARG	F	28	170.049	111.255	-96.818	1.00108.71		FS6
ATOM	39099	CA	ARG	F	28	169.380	110.006	-97.165	1.00108.71		FS6
ATOM	39100	CB	ARG	F	28	170.368	109.066	-97.855	1.00156.37		FS6
ATOM	39101	CG	ARG	F	28	169.727	107.953	-98.655	1.00156.37		FS6
ATOM	39102	CD	ARG	F	28	170.797	107.061	-99.256	1.00156.37		FS6
ATOM	39103	NE	ARG	F	28	170.336	106.381	-100.463	1.00156.37		FS6



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ATOM	39104	CZ	ARG	F	28	169.971	107.009	-101.577	1.00156.37	FS6
ATOM	39105	NH1	ARG	F	28	170.012	108.332	-101.635	1.00156.37	FS6
ATOM	39106	NH2	ARG	F	28	169.574	106.316	-102.637	1.00156.37	FS6
ATOM	39107	C	ARG	F	28	168.829	109.332	-95.917	1.00108.71	FS6
ATOM	39108	O	ARG	F	28	167.621	109.119	-95.793	1.00108.71	FS6
ATOM	39109	N	ALA	F	29	169.725	108.997	-94.993	1.00101.63	FS6
ATOM	39110	CA	ALA	F	29	169.334	108.343	-93.750	1.00101.63	FS6
ATOM	39111	CB	ALA	F	29	170.544	108.084	-92.887	1.00 68.71	FS6
ATOM	39112	C	ALA	F	29	168.346	109.201	-92.996	1.00101.63	FS6
ATOM	39113	O	ALA	F	29	167.352	108.694	-92.481	1.00101.63	FS6
ATOM	39114	N	LEU	F	30	168.627	110.497	-92.915	1.00 75.23	FS6
ATOM	39115	CA	LEU	F	30	167.722	111.393	-92.226	1.00 75.23	FS6
ATOM	39116	CB	LEU	F	30	167.932	112.834	-92.684	1.00 73.02	FS6
ATOM	39117	CG	LEU	F	30	169.123	113.537	-92.024	1.00 73.02	FS6
ATOM	39118	CD1	LEU	F	30	169.438	114.861	-92.711	1.00 73.02	FS6
ATOM	39119	CD2	LEU	F	30	168.799	113.774	-90.561	1.00 73.02	FS6
ATOM	39120	C	LEU	F	30	166.324	110.924	-92.574	1.00 75.23	FS6
ATOM	39121	O	LEU	F	30	165.578	110.482	-91.698	1.00 75.23	FS6
ATOM	39122	N	GLU	F	31	165.993	110.976	-93.864	1.00112.59	FS6
ATOM	39123	CA	GLU	F	31	164.683	110.550	-94.362	1.00112.59	FS6
ATOM	39124	CB	GLU	F	31	164.663	110.540	-95.892	1.00188.21	FS6
ATOM	39125	CG	GLU	F	31	164.247	111.839	-96.550	1.00188.21	FS6
ATOM	39126	CD	GLU	F	31	163.841	111.631	-97.998	1.00188.21	FS6
ATOM	39127	OE1	GLU	F	31	164.688	111.170	-98.794	1.00188.21	FS6
ATOM	39128	OE2	GLU	F	31	162.673	111.918	-98.339	1.00188.21	FS6
ATOM	39129	C	GLU	F	31	164.273	109.162	-93.884	1.00112.59	FS6
ATOM	39130	O	GLU	F	31	163.224	108.991	-93.261	1.00112.59	FS6
ATOM	39131	N	ASN	F	32	165.102	108.175	-94.203	1.00 82.26	FS6
ATOM	39132	CA	ASN	F	32	164.849	106.790	-93.835	1.00 82.26	FS6
ATOM	39133	CB	ASN	F	32	166.097	105.961	-94.116	1.00134.94	FS6
ATOM	39134	CG	ASN	F	32	166.587	106.130	-95.537	1.00134.94	FS6
ATOM	39135	OD1	ASN	F	32	167.676	105.682	-95.886	1.00134.94	FS6
ATOM	39136	ND2	ASN	F	32	165.781	106.779	-96.368	1.00134.94	FS6
ATOM	39137	C	ASN	F	32	164.431	106.642	-92.375	1.00 82.26	FS6
ATOM	39138	O	ASN	F	32	163.863	105.619	-91.979	1.00 82.26	FS6
ATOM	39139	N	TYR	F	33	164.713	107.666	-91.576	1.00124.04	FS6
ATOM	39140	CA	TYR	F	33	164.352	107.651	-90.167	1.00124.04	FS6
ATOM	39141	CB	TYR	F	33	165.599	107.799	-89.293	1.00 81.47	FS6
ATOM	39142	CG	TYR	F	33	166.440	106.546	-89.208	1.00 81.47	FS6
ATOM	39143	CD1	TYR	F	33	167.611	106.406	-89.955	1.00 81.47	FS6
ATOM	39144	CE1	TYR	F	33	168.375	105.238	-89.884	1.00 81.47	FS6
ATOM	39145	CD2	TYR	F	33	166.054	105.488	-88.388	1.00 81.47	FS6
ATOM	39146	CE2	TYR	F	33	166.807	104.320	-88.309	1.00 81.47	FS6
ATOM	39147	CZ	TYR	F	33	167.965	104.198	-89.055	1.00 81.47	FS6
ATOM	39148	OH	TYR	F	33	168.706	103.035	-88.958	1.00 81.47	FS6
ATOM	39149	C	TYR	F	33	163.347	108.743	-89.820	1.00124.04	FS6
ATOM	39150	O	TYR	F	33	163.479	109.410	-88.797	1.00124.04	FS6
ATOM	39151	N	GLY	F	34	162.349	108.923	-90.679	1.00 80.76	FS6
ATOM	39152	CA	GLY	F	34	161.320	109.921	-90.440	1.00 80.76	FS6
ATOM	39153	C	GLY	F	34	161.788	111.344	-90.184	1.00 80.76	FS6
ATOM	39154	O	GLY	F	34	161.004	112.180	-89.726	1.00 80.76	FS6
ATOM	39155	N	ALA	F	35	163.052	111.635	-90.475	1.00125.56	FS6
ATOM	39156	CA	ALA	F	35	163.580	112.981	-90.269	1.00125.56	FS6
ATOM	39157	CB	ALA	F	35	165.104	112.957	-90.268	1.00 77.39	FS6
ATOM	39158	C	ALA	F	35	163.070	113.919	-91.359	1.00125.56	FS6
ATOM	39159	O	ALA	F	35	163.332	113.721	-92.546	1.00125.56	FS6
ATOM	39160	N	ARG	F	36	162.339	114.945	-90.947	1.00 52.63	FS6
ATOM	39161	CA	ARG	F	36	161.782	115.909	-91.882	1.00 52.63	FS6
ATOM	39162	CB	ARG	F	36	160.265	115.964	-91.685	1.00114.01	FS6
ATOM	39163	CG	ARG	F	36	159.571	117.186	-92.239	1.00114.01	FS6
ATOM	39164	CD	ARG	F	36	158.196	117.315	-91.601	1.00114.01	FS6
ATOM	39165	NE	ARG	F	36	157.666	118.676	-91.657	1.00114.01	FS6
ATOM	39166	CZ	ARG	F	36	158.300	119.750	-91.191	1.00114.01	FS6
ATOM	39167	NH1	ARG	F	36	159.499	119.629	-90.635	1.00114.01	FS6
ATOM	39168	NH2	ARG	F	36	157.730	120.948	-91.265	1.00114.01	FS6
ATOM	39169	C	ARG	F	36	162.420	117.273	-91.631	1.00 52.63	FS6
ATOM	39170	O	ARG	F	36	161.878	118.087	-90.887	1.00 52.63	FS6
ATOM	39171	N	VAL	F	37	163.564	117.518	-92.269	1.00 78.10	FS6
ATOM	39172	CA	VAL	F	37	164.317	118.771	-92.105	1.00 78.10	FS6
ATOM	39173	CB	VAL	F	37	165.403	118.925	-93.199	1.00 82.64	FS6
ATOM	39174	CG1	VAL	F	37	166.287	120.128	-92.873	1.00 82.64	FS6
ATOM	39175	CG2	VAL	F	37	166.233	117.645	-93.313	1.00 82.64	FS6
ATOM	39176	C	VAL	F	37	163.528	120.087	-92.077	1.00 78.10	FS6
ATOM	39177	O	VAL	F	37	162.969	120.510	-93.089	1.00 78.10	FS6
ATOM	39178	N	GLU	F	38	163.504	120.741	-90.919	1.00104.27	FS6
ATOM	39179	CA	GLU	F	38	162.803	122.012	-90.793	1.00104.27	FS6
ATOM	39180	CB	GLU	F	38	162.390	122.277	-89.341	1.00 89.69	FS6



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ATOM	39181	CG	GLU	F	38	161.300	121.344	-88.826	1.00	89.69	FS6
ATOM	39182	CD	GLU	F	38	160.581	121.892	-87.607	1.00	89.69	FS6
ATOM	39183	OE1	GLU	F	38	159.709	121.185	-87.060	1.00	89.69	FS6
ATOM	39184	OE2	GLU	F	38	160.882	123.031	-87.196	1.00	89.69	FS6
ATOM	39185	C	GLU	F	38	163.701	123.132	-91.296	1.00104.27		FS6
ATOM	39186	O	GLU	F	38	163.217	124.169	-91.743	1.00104.27		FS6
ATOM	39187	N	LYS	F	39	165.011	122.921	-91.213	1.00103.53		FS6
ATOM	39188	CA	LYS	F	39	165.985	123.893	-91.701	1.00103.53		FS6
ATOM	39189	CB	LYS	F	39	165.771	125.269	-91.074	1.00128.51		FS6
ATOM	39190	CG	LYS	F	39	165.956	125.341	-89.593	1.00128.51		FS6
ATOM	39191	CD	LYS	F	39	165.697	126.766	-89.162	1.00128.51		FS6
ATOM	39192	CE	LYS	F	39	165.657	126.905	-87.656	1.00128.51		FS6
ATOM	39193	NZ	LYS	F	39	165.284	128.294	-87.263	1.00128.51		FS6
ATOM	39194	C	LYS	F	39	167.413	123.438	-91.470	1.00103.53		FS6
ATOM	39195	O	LYS	F	39	167.647	122.287	-91.104	1.00103.53		FS6
ATOM	39196	N	VAL	F	40	168.369	124.335	-91.693	1.00104.75		FS6
ATOM	39197	CA	VAL	F	40	169.769	123.973	-91.523	1.00104.75		FS6
ATOM	39198	CB	VAL	F	40	170.151	122.868	-92.532	1.00	68.72	FS6
ATOM	39199	CG1	VAL	F	40	169.524	123.171	-93.867	1.00	68.72	FS6
ATOM	39200	CG2	VAL	F	40	171.669	122.761	-92.660	1.00	68.72	FS6
ATOM	39201	C	VAL	F	40	170.775	125.125	-91.628	1.00104.75		FS6
ATOM	39202	O	VAL	F	40	170.563	126.096	-92.355	1.00104.75		FS6
ATOM	39203	N	GLU	F	41	171.871	124.989	-90.882	1.00	87.29	FS6
ATOM	39204	CA	GLU	F	41	172.947	125.970	-90.840	1.00	87.29	FS6
ATOM	39205	CB	GLU	F	41	172.947	126.692	-89.495	1.00134.38		FS6
ATOM	39206	CG	GLU	F	41	171.634	127.374	-89.164	1.00134.38		FS6
ATOM	39207	CD	GLU	F	41	171.545	127.800	-87.712	1.00134.38		FS6
ATOM	39208	OE1	GLU	F	41	172.391	128.608	-87.273	1.00134.38		FS6
ATOM	39209	OE2	GLU	F	41	170.628	127.324	-87.009	1.00134.38		FS6
ATOM	39210	C	GLU	F	41	174.241	125.189	-90.993	1.00	87.29	FS6
ATOM	39211	O	GLU	F	41	174.597	124.399	-90.119	1.00	87.29	FS6
ATOM	39212	N	GLU	F	42	174.945	125.415	-92.099	1.00122.08		FS6
ATOM	39213	CA	GLU	F	42	176.193	124.711	-92.369	1.00122.08		FS6
ATOM	39214	CB	GLU	F	42	176.165	124.169	-93.797	1.00108.08		FS6
ATOM	39215	CG	GLU	F	42	177.352	123.311	-94.181	1.00108.08		FS6
ATOM	39216	CD	GLU	F	42	177.111	122.570	-95.482	1.00108.08		FS6
ATOM	39217	OE1	GLU	F	42	178.013	121.829	-95.930	1.00108.08		FS6
ATOM	39218	OE2	GLU	F	42	176.009	122.728	-96.057	1.00108.08		FS6
ATOM	39219	C	GLU	F	42	177.427	125.586	-92.161	1.00122.08		FS6
ATOM	39220	O	GLU	F	42	178.017	126.084	-93.118	1.00122.08		FS6
ATOM	39221	N	LEU	F	43	177.810	125.757	-90.898	1.00	73.61	FS6
ATOM	39222	CA	LEU	F	43	178.969	126.564	-90.515	1.00	73.61	FS6
ATOM	39223	CB	LEU	F	43	179.184	126.474	-89.001	1.00	96.24	FS6
ATOM	39224	CG	LEU	F	43	178.431	127.458	-88.102	1.00	96.24	FS6
ATOM	39225	CD1	LEU	F	43	179.187	128.777	-88.070	1.00	96.24	FS6
ATOM	39226	CD2	LEU	F	43	176.997	127.638	-88.592	1.00	96.24	FS6
ATOM	39227	C	LEU	F	43	180.263	126.174	-91.224	1.00	73.61	FS6
ATOM	39228	O	LEU	F	43	181.210	126.966	-91.300	1.00	73.61	FS6
ATOM	39229	N	GLY	F	44	180.308	124.950	-91.733	1.00106.43		FS6
ATOM	39230	CA	GLY	F	44	181.502	124.510	-92.421	1.00106.43		FS6
ATOM	39231	C	GLY	F	44	182.638	124.188	-91.473	1.00106.43		FS6
ATOM	39232	O	GLY	F	44	182.466	123.429	-90.523	1.00106.43		FS6
ATOM	39233	N	LEU	F	45	183.804	124.772	-91.719	1.00135.93		FS6
ATOM	39234	CA	LEU	F	45	184.959	124.504	-90.877	1.00135.93		FS6
ATOM	39235	CB	LEU	F	45	186.240	124.629	-91.690	1.00105.49		FS6
ATOM	39236	CG	LEU	F	45	186.384	123.634	-92.830	1.00105.49		FS6
ATOM	39237	CD1	LEU	F	45	187.800	123.719	-93.365	1.00105.49		FS6
ATOM	39238	CD2	LEU	F	45	186.082	122.223	-92.335	1.00105.49		FS6
ATOM	39239	C	LEU	F	45	185.088	125.386	-89.653	1.00135.93		FS6
ATOM	39240	O	LEU	F	45	184.638	126.531	-89.648	1.00135.93		FS6
ATOM	39241	N	ARG	F	46	185.713	124.834	-88.615	1.00	94.60	FS6
ATOM	39242	CA	ARG	F	46	185.964	125.555	-87.374	1.00	94.60	FS6
ATOM	39243	CB	ARG	F	46	184.716	125.583	-86.484	1.00142.68		FS6
ATOM	39244	CG	ARG	F	46	183.566	126.385	-87.082	1.00142.68		FS6
ATOM	39245	CD	ARG	F	46	182.630	126.925	-86.020	1.00142.68		FS6
ATOM	39246	NE	ARG	F	46	183.289	127.903	-85.158	1.00142.68		FS6
ATOM	39247	CZ	ARG	F	46	182.684	128.560	-84.171	1.00142.68		FS6
ATOM	39248	NH1	ARG	F	46	181.399	128.348	-83.915	1.00142.68		FS6
ATOM	39249	NH2	ARG	F	46	183.363	129.431	-83.436	1.00142.68		FS6
ATOM	39250	C	ARG	F	46	187.140	124.917	-86.639	1.00	94.60	FS6
ATOM	39251	O	ARG	F	46	187.338	123.697	-86.688	1.00	94.60	FS6
ATOM	39252	N	ARG	F	47	187.930	125.760	-85.979	1.00	83.83	FS6
ATOM	39253	CA	ARG	F	47	189.101	125.302	-85.247	1.00	83.83	FS6
ATOM	39254	CB	ARG	F	47	190.017	126.490	-84.931	1.00198.94		FS6
ATOM	39255	CG	ARG	F	47	190.270	127.409	-86.130	1.00198.94		FS6
ATOM	39256	CD	ARG	F	47	190.688	126.621	-87.377	1.00198.94		FS6
ATOM	39257	NE	ARG	F	47	190.647	127.427	-88.600	1.00198.94		FS6



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ATOM	39258	CZ	ARG	F	47	190.751	126.932	-89.834	1.00198.94	FS6
ATOM	39259	NH1	ARG	F	47	190.906	125.627	-90.021	1.00198.94	FS6
ATOM	39260	NH2	ARG	F	47	190.691	127.743	-90.884	1.00198.94	FS6
ATOM	39261	C	ARG	F	47	188.659	124.618	-83.967	1.00 83.83	FS6
ATOM	39262	O	ARG	F	47	188.244	125.279	-83.019	1.00 83.83	FS6
ATOM	39263	N	LEU	F	48	188.739	123.290	-83.951	1.00 88.80	FS6
ATOM	39264	CA	LEU	F	48	188.341	122.504	-82.784	1.00 88.80	FS6
ATOM	39265	CB	LEU	F	48	188.530	121.021	-83.063	1.00 61.68	FS6
ATOM	39266	CG	LEU	F	48	187.737	120.486	-84.252	1.00 61.68	FS6
ATOM	39267	CD1	LEU	F	48	188.121	119.031	-84.500	1.00 61.68	FS6
ATOM	39268	CD2	LEU	F	48	186.238	120.618	-83.979	1.00 61.68	FS6
ATOM	39269	C	LEU	F	48	189.142	122.871	-81.547	1.00 88.80	FS6
ATOM	39270	O	LEU	F	48	190.341	123.134	-81.636	1.00 88.80	FS6
ATOM	39271	N	ALA	F	49	188.483	122.878	-80.393	1.00 71.68	FS6
ATOM	39272	CA	ALA	F	49	189.157	123.220	-79.146	1.00 71.68	FS6
ATOM	39273	CB	ALA	F	49	188.170	123.163	-77.992	1.00128.86	FS6
ATOM	39274	C	ALA	F	49	190.320	122.260	-78.893	1.00 71.68	FS6
ATOM	39275	O	ALA	F	49	191.369	122.637	-78.370	1.00 71.68	FS6
ATOM	39276	N	TYR	F	50	190.115	121.013	-79.283	1.00 78.27	FS6
ATOM	39277	CA	TYR	F	50	191.108	119.973	-79.109	1.00 78.27	FS6
ATOM	39278	CB	TYR	F	50	190.800	119.178	-77.842	1.00 84.85	FS6
ATOM	39279	CG	TYR	F	50	189.406	118.582	-77.828	1.00 84.85	FS6
ATOM	39280	CD1	TYR	F	50	188.286	119.367	-77.541	1.00 84.85	FS6
ATOM	39281	CE1	TYR	F	50	187.003	118.829	-77.576	1.00 84.85	FS6
ATOM	39282	CD2	TYR	F	50	189.205	117.244	-78.146	1.00 84.85	FS6
ATOM	39283	CE2	TYR	F	50	187.928	116.699	-78.186	1.00 84.85	FS6
ATOM	39284	CZ	TYR	F	50	186.833	117.493	-77.902	1.00 84.85	FS6
ATOM	39285	OH	TYR	F	50	185.576	116.935	-77.959	1.00 84.85	FS6
ATOM	39286	C	TYR	F	50	191.017	119.064	-80.328	1.00 78.27	FS6
ATOM	39287	O	TYR	F	50	189.972	118.980	-80.970	1.00 78.27	FS6
ATOM	39288	N	PRO	F	51	192.102	118.357	-80.656	1.00 55.50	FS6
ATOM	39289	CD	PRO	F	51	193.318	118.135	-79.863	1.00 78.92	FS6
ATOM	39290	CA	PRO	F	51	192.085	117.470	-81.817	1.00 55.50	FS6
ATOM	39291	CB	PRO	F	51	193.487	116.885	-81.812	1.00 78.92	FS6
ATOM	39292	CG	PRO	F	51	193.765	116.778	-80.356	1.00 78.92	FS6
ATOM	39293	C	PRO	F	51	191.025	116.380	-81.766	1.00 55.50	FS6
ATOM	39294	O	PRO	F	51	190.911	115.661	-80.774	1.00 55.50	FS6
ATOM	39295	N	ILE	F	52	190.248	116.273	-82.841	1.00 82.51	FS6
ATOM	39296	CA	ILE	F	52	189.218	115.245	-82.967	1.00 82.51	FS6
ATOM	39297	CB	ILE	F	52	187.832	115.840	-83.305	1.00 63.35	FS6
ATOM	39298	CG2	ILE	F	52	186.830	114.713	-83.522	1.00 63.35	FS6
ATOM	39299	CG1	ILE	F	52	187.354	116.748	-82.167	1.00 63.35	FS6
ATOM	39300	CD1	ILE	F	52	185.968	117.353	-82.389	1.00 63.35	FS6
ATOM	39301	C	ILE	F	52	189.673	114.344	-84.115	1.00 82.51	FS6
ATOM	39302	O	ILE	F	52	189.509	114.678	-85.294	1.00 82.51	FS6
ATOM	39303	N	ALA	F	53	190.259	113.208	-83.747	1.00102.38	FS6
ATOM	39304	CA	ALA	F	53	190.787	112.249	-84.706	1.00102.38	FS6
ATOM	39305	CB	ALA	F	53	189.760	111.961	-85.793	1.00 83.12	FS6
ATOM	39306	C	ALA	F	53	192.060	112.847	-85.307	1.00102.38	FS6
ATOM	39307	O	ALA	F	53	192.184	112.994	-86.520	1.00102.38	FS6
ATOM	39308	N	LYS	F	54	192.996	113.199	-84.427	1.00106.38	FS6
ATOM	39309	CA	LYS	F	54	194.286	113.789	-84.796	1.00106.38	FS6
ATOM	39310	CB	LYS	F	54	195.099	112.819	-85.658	1.00135.31	FS6
ATOM	39311	CG	LYS	F	54	194.939	111.353	-85.279	1.00135.31	FS6
ATOM	39312	CD	LYS	F	54	195.156	111.110	-83.796	1.00135.31	FS6
ATOM	39313	CE	LYS	F	54	194.773	109.685	-83.430	1.00135.31	FS6
ATOM	39314	NZ	LYS	F	54	194.764	109.469	-81.959	1.00135.31	FS6
ATOM	39315	C	LYS	F	54	194.116	115.105	-85.540	1.00106.38	FS6
ATOM	39316	O	LYS	F	54	194.970	115.987	-85.456	1.00106.38	FS6
ATOM	39317	N	ASP	F	55	193.006	115.223	-86.260	1.00 74.58	FS6
ATOM	39318	CA	ASP	F	55	192.680	116.412	-87.035	1.00 74.58	FS6
ATOM	39319	CB	ASP	F	55	191.546	116.076	-88.001	1.00113.84	FS6
ATOM	39320	CG	ASP	F	55	191.470	117.032	-89.163	1.00113.84	FS6
ATOM	39321	OD1	ASP	F	55	191.363	118.256	-88.932	1.00113.84	FS6
ATOM	39322	OD2	ASP	F	55	191.516	116.551	-90.313	1.00113.84	FS6
ATOM	39323	C	ASP	F	55	192.240	117.532	-86.083	1.00 74.58	FS6
ATOM	39324	O	ASP	F	55	191.339	117.334	-85.270	1.00 74.58	FS6
ATOM	39325	N	PRO	F	56	192.870	118.721	-86.172	1.00 57.50	FS6
ATOM	39326	CD	PRO	F	56	194.151	118.939	-86.861	1.00 84.26	FS6
ATOM	39327	CA	PRO	F	56	192.555	119.877	-85.323	1.00 57.50	FS6
ATOM	39328	CB	PRO	F	56	193.914	120.516	-85.128	1.00 84.26	FS6
ATOM	39329	CG	PRO	F	56	194.484	120.377	-86.488	1.00 84.26	FS6
ATOM	39330	C	PRO	F	56	191.533	120.881	-85.878	1.00 57.50	FS6
ATOM	39331	O	PRO	F	56	191.512	122.045	-85.466	1.00 57.50	FS6
ATOM	39332	N	GLN	F	57	190.690	120.424	-86.799	1.00 55.45	FS6
ATOM	39333	CA	GLN	F	57	189.665	121.264	-87.418	1.00 55.45	FS6
ATOM	39334	CB	GLN	F	57	190.158	121.785	-88.768	1.00167.56	FS6



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ATOM	39335	CG	GLN	F	57	191.571	122.344	-88.742	1.00167.56	FS6
ATOM	39336	CD	GLN	F	57	192.224	122.344	-90.112	1.00167.56	FS6
ATOM	39337	OE1	GLN	F	57	193.378	122.748	-90.262	1.00167.56	FS6
ATOM	39338	NE2	GLN	F	57	191.488	121.885	-91.119	1.00167.56	FS6
ATOM	39339	C	GLN	F	57	188.481	120.336	-87.643	1.00 55.45	FS6
ATOM	39340	O	GLN	F	57	188.584	119.133	-87.397	1.00 55.45	FS6
ATOM	39341	N	GLY	F	58	187.365	120.879	-88.116	1.00 56.32	FS6
ATOM	39342	CA	GLY	F	58	186.204	120.042	-88.352	1.00 56.32	FS6
ATOM	39343	C	GLY	F	58	185.161	120.703	-89.227	1.00 56.32	FS6
ATOM	39344	O	GLY	F	58	185.103	121.933	-89.317	1.00 56.32	FS6
ATOM	39345	N	TYR	F	59	184.340	119.886	-89.882	1.00 83.28	FS6
ATOM	39346	CA	TYR	F	59	183.284	120.400	-90.743	1.00 83.28	FS6
ATOM	39347	CB	TYR	F	59	183.276	119.669	-92.087	1.00 91.93	FS6
ATOM	39348	CG	TYR	F	59	182.537	120.442	-93.152	1.00 91.93	FS6
ATOM	39349	CD1	TYR	F	59	183.041	121.653	-93.626	1.00 91.93	FS6
ATOM	39350	CE1	TYR	F	59	182.337	122.415	-94.542	1.00 91.93	FS6
ATOM	39351	CD2	TYR	F	59	181.301	120.009	-93.630	1.00 91.93	FS6
ATOM	39352	CE2	TYR	F	59	180.585	120.769	-94.548	1.00 91.93	FS6
ATOM	39353	CZ	TYR	F	59	181.111	121.973	-94.997	1.00 91.93	FS6
ATOM	39354	OH	TYR	F	59	180.410	122.749	-95.891	1.00 91.93	FS6
ATOM	39355	C	TYR	F	59	181.936	120.221	-90.041	1.00 83.28	FS6
ATOM	39356	O	TYR	F	59	181.452	119.096	-89.868	1.00 83.28	FS6
ATOM	39357	N	PHE	F	60	181.328	121.339	-89.655	1.00 92.37	FS6
ATOM	39358	CA	PHE	F	60	180.064	121.313	-88.935	1.00 92.37	FS6
ATOM	39359	CB	PHE	F	60	180.099	122.333	-87.798	1.00119.70	FS6
ATOM	39360	CG	PHE	F	60	181.145	122.047	-86.763	1.00119.70	FS6
ATOM	39361	CD1	PHE	F	60	182.489	122.266	-87.035	1.00119.70	FS6
ATOM	39362	CD2	PHE	F	60	180.787	121.545	-85.518	1.00119.70	FS6
ATOM	39363	CE1	PHE	F	60	183.464	121.988	-86.078	1.00119.70	FS6
ATOM	39364	CE2	PHE	F	60	181.752	121.264	-84.555	1.00119.70	FS6
ATOM	39365	CZ	PHE	F	60	183.092	121.486	-84.835	1.00119.70	FS6
ATOM	39366	C	PHE	F	60	178.776	121.505	-89.723	1.00 92.37	FS6
ATOM	39367	O	PHE	F	60	178.578	122.511	-90.409	1.00 92.37	FS6
ATOM	39368	N	LEU	F	61	177.901	120.516	-89.587	1.00110.60	FS6
ATOM	39369	CA	LEU	F	61	176.591	120.505	-90.215	1.00110.60	FS6
ATOM	39370	CB	LEU	F	61	176.343	119.173	-90.908	1.00102.72	FS6
ATOM	39371	CG	LEU	F	61	177.162	118.943	-92.167	1.00102.72	FS6
ATOM	39372	CD1	LEU	F	61	177.050	117.490	-92.601	1.00102.72	FS6
ATOM	39373	CD2	LEU	F	61	176.664	119.889	-93.246	1.00102.72	FS6
ATOM	39374	C	LEU	F	61	175.598	120.664	-89.082	1.00110.60	FS6
ATOM	39375	O	LEU	F	61	175.869	120.254	-87.955	1.00110.60	FS6
ATOM	39376	N	TRP	F	62	174.445	121.247	-89.377	1.00104.89	FS6
ATOM	39377	CA	TRP	F	62	173.434	121.459	-88.354	1.00104.89	FS6
ATOM	39378	CB	TRP	F	62	173.590	122.861	-87.765	1.00107.98	FS6
ATOM	39379	CG	TRP	F	62	172.728	123.118	-86.579	1.00107.98	FS6
ATOM	39380	CD2	TRP	F	62	171.409	123.664	-86.589	1.00107.98	FS6
ATOM	39381	CE2	TRP	F	62	170.976	123.736	-85.249	1.00107.98	FS6
ATOM	39382	CE3	TRP	F	62	170.547	124.102	-87.603	1.00107.98	FS6
ATOM	39383	CD1	TRP	F	62	173.035	122.880	-85.270	1.00107.98	FS6
ATOM	39384	NE1	TRP	F	62	171.987	123.251	-84.462	1.00107.98	FS6
ATOM	39385	CZ2	TRP	F	62	169.720	124.229	-84.898	1.00107.98	FS6
ATOM	39386	CZ3	TRP	F	62	169.299	124.591	-87.255	1.00107.98	FS6
ATOM	39387	CH2	TRP	F	62	168.898	124.651	-85.914	1.00107.98	FS6
ATOM	39388	C	TRP	F	62	172.052	121.305	-88.968	1.00104.89	FS6
ATOM	39389	O	TRP	F	62	171.586	122.184	-89.680	1.00104.89	FS6
ATOM	39390	N	TYR	F	63	171.399	120.184	-88.696	1.00 96.25	FS6
ATOM	39391	CA	TYR	F	63	170.074	119.944	-89.241	1.00 96.25	FS6
ATOM	39392	CB	TYR	F	63	170.034	118.621	-90.009	1.00106.02	FS6
ATOM	39393	CG	TYR	F	63	171.098	118.407	-91.063	1.00106.02	FS6
ATOM	39394	CD1	TYR	F	63	171.268	119.304	-92.115	1.00106.02	FS6
ATOM	39395	CE1	TYR	F	63	172.186	119.041	-93.144	1.00106.02	FS6
ATOM	39396	CD2	TYR	F	63	171.876	117.248	-91.056	1.00106.02	FS6
ATOM	39397	CE2	TYR	F	63	172.789	116.979	-92.071	1.00106.02	FS6
ATOM	39398	CZ	TYR	F	63	172.939	117.872	-93.113	1.00106.02	FS6
ATOM	39399	OH	TYR	F	63	173.814	117.572	-94.135	1.00106.02	FS6
ATOM	39400	C	TYR	F	63	169.010	119.867	-88.147	1.00 96.25	FS6
ATOM	39401	O	TYR	F	63	169.021	118.937	-87.338	1.00 96.25	FS6
ATOM	39402	N	GLN	F	64	168.093	120.830	-88.123	1.00 91.01	FS6
ATOM	39403	CA	GLN	F	64	166.996	120.813	-87.152	1.00 91.01	FS6
ATOM	39404	CB	GLN	F	64	166.525	122.231	-86.847	1.00 77.20	FS6
ATOM	39405	CG	GLN	F	64	165.133	122.264	-86.238	1.00 77.20	FS6
ATOM	39406	CD	GLN	F	64	164.710	123.647	-85.812	1.00 77.20	FS6
ATOM	39407	OE1	GLN	F	64	165.266	124.216	-84.871	1.00 77.20	FS6
ATOM	39408	NE2	GLN	F	64	163.722	124.203	-86.503	1.00 77.20	FS6
ATOM	39409	C	GLN	F	64	165.826	120.026	-87.753	1.00 91.01	FS6
ATOM	39410	O	GLN	F	64	165.266	120.440	-88.766	1.00 91.01	FS6
ATOM	39411	N	VAL	F	65	165.437	118.910	-87.143	1.00 76.20	FS6



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ATOM	39412	CA	VAL	F	65	164.338	118.130	-87.707	1.00	76.20	FS6
ATOM	39413	CB	VAL	F	65	164.764	116.687	-88.051	1.00	79.18	FS6
ATOM	39414	CG1	VAL	F	65	166.156	116.688	-88.640	1.00	79.18	FS6
ATOM	39415	CG2	VAL	F	65	164.685	115.801	-86.817	1.00	79.18	FS6
ATOM	39416	C	VAL	F	65	163.100	118.010	-86.844	1.00	76.20	FS6
ATOM	39417	O	VAL	F	65	162.974	118.641	-85.795	1.00	76.20	FS6
ATOM	39418	N	GLU	F	66	162.190	117.175	-87.330	1.00	83.05	FS6
ATOM	39419	CA	GLU	F	66	160.925	116.861	-86.685	1.00	83.05	FS6
ATOM	39420	CB	GLU	F	66	159.789	117.676	-87.314	1.00122.44		FS6
ATOM	39421	CG	GLU	F	66	158.389	117.302	-86.837	1.00122.44		FS6
ATOM	39422	CD	GLU	F	66	157.294	118.068	-87.568	1.00122.44		FS6
ATOM	39423	OE1	GLU	F	66	157.273	119.312	-87.468	1.00122.44		FS6
ATOM	39424	OE2	GLU	F	66	156.456	117.427	-88.243	1.00122.44		FS6
ATOM	39425	C	GLU	F	66	160.788	115.386	-87.037	1.00	83.05	FS6
ATOM	39426	O	GLU	F	66	160.578	115.043	-88.199	1.00	83.05	FS6
ATOM	39427	N	MET	F	67	160.925	114.504	-86.056	1.00	68.02	FS6
ATOM	39428	CA	MET	F	67	160.847	113.090	-86.370	1.00	68.02	FS6
ATOM	39429	CB	MET	F	67	162.248	112.562	-86.700	1.00	86.50	FS6
ATOM	39430	CG	MET	F	67	163.210	112.535	-85.510	1.00	86.50	FS6
ATOM	39431	SD	MET	F	67	164.795	111.701	-85.857	1.00	86.50	FS6
ATOM	39432	CE	MET	F	67	164.388	109.983	-85.475	1.00	86.50	FS6
ATOM	39433	C	MET	F	67	160.257	112.240	-85.266	1.00	68.02	FS6
ATOM	39434	O	MET	F	67	160.018	112.721	-84.160	1.00	68.02	FS6
ATOM	39435	N	PRO	F	68	160.002	110.954	-85.564	1.00	82.16	FS6
ATOM	39436	CD	PRO	F	68	159.974	110.380	-86.920	1.00116.38		FS6
ATOM	39437	CA	PRO	F	68	159.443	110.003	-84.605	1.00	82.16	FS6
ATOM	39438	CB	PRO	F	68	159.156	108.775	-85.462	1.00116.38		FS6
ATOM	39439	CG	PRO	F	68	158.880	109.358	-86.799	1.00116.38		FS6
ATOM	39440	C	PRO	F	68	160.494	109.713	-83.544	1.00	82.16	FS6
ATOM	39441	O	PRO	F	68	161.484	109.016	-83.806	1.00	82.16	FS6
ATOM	39442	N	GLU	F	69	160.279	110.266	-82.355	1.00	81.35	FS6
ATOM	39443	CA	GLU	F	69	161.192	110.078	-81.240	1.00	81.35	FS6
ATOM	39444	CB	GLU	F	69	160.593	110.691	-79.977	1.00101.14		FS6
ATOM	39445	CG	GLU	F	69	159.183	111.205	-80.173	1.00101.14		FS6
ATOM	39446	CD	GLU	F	69	158.178	110.088	-80.288	1.00101.14		FS6
ATOM	39447	OE1	GLU	F	69	158.380	109.196	-81.139	1.00101.14		FS6
ATOM	39448	OE2	GLU	F	69	157.183	110.100	-79.528	1.00101.14		FS6
ATOM	39449	C	GLU	F	69	161.510	108.602	-81.019	1.00	81.35	FS6
ATOM	39450	O	GLU	F	69	162.632	108.249	-80.668	1.00	81.35	FS6
ATOM	39451	N	ASP	F	70	160.526	107.741	-81.243	1.00	74.53	FS6
ATOM	39452	CA	ASP	F	70	160.717	106.307	-81.069	1.00	74.53	FS6
ATOM	39453	CB	ASP	F	70	159.449	105.557	-81.477	1.00166.65		FS6
ATOM	39454	CG	ASP	F	70	159.346	105.364	-82.980	1.00166.65		FS6
ATOM	39455	OD1	ASP	F	70	159.461	106.365	-83.719	1.00166.65		FS6
ATOM	39456	OD2	ASP	F	70	159.152	104.211	-83.421	1.00166.65		FS6
ATOM	39457	C	ASP	F	70	161.901	105.768	-81.888	1.00	74.53	FS6
ATOM	39458	O	ASP	F	70	162.210	104.574	-81.818	1.00	74.53	FS6
ATOM	39459	N	ARG	F	71	162.559	106.628	-82.667	1.00	69.45	FS6
ATOM	39460	CA	ARG	F	71	163.698	106.184	-83.473	1.00	69.45	FS6
ATOM	39461	CB	ARG	F	71	163.252	105.897	-84.910	1.00166.04		FS6
ATOM	39462	CG	ARG	F	71	162.289	104.730	-85.048	1.00166.04		FS6
ATOM	39463	CD	ARG	F	71	162.330	104.159	-86.457	1.00166.04		FS6
ATOM	39464	NE	ARG	F	71	162.098	105.184	-87.472	1.00166.04		FS6
ATOM	39465	CZ	ARG	F	71	162.190	104.974	-88.784	1.00166.04		FS6
ATOM	39466	NH1	ARG	F	71	162.511	103.772	-89.246	1.00166.04		FS6
ATOM	39467	NH2	ARG	F	71	161.957	105.966	-89.635	1.00166.04		FS6
ATOM	39468	C	ARG	F	71	164.879	107.152	-83.503	1.00	69.45	FS6
ATOM	39469	O	ARG	F	71	165.848	106.940	-84.229	1.00	69.45	FS6
ATOM	39470	N	VAL	F	72	164.806	108.210	-82.710	1.00	64.83	FS6
ATOM	39471	CA	VAL	F	72	165.880	109.189	-82.682	1.00	64.83	FS6
ATOM	39472	CB	VAL	F	72	165.684	110.201	-81.557	1.00	84.11	FS6
ATOM	39473	CG1	VAL	F	72	166.691	111.337	-81.696	1.00	84.11	FS6
ATOM	39474	CG2	VAL	F	72	164.277	110.724	-81.595	1.00	84.11	FS6
ATOM	39475	C	VAL	F	72	167.236	108.541	-82.498	1.00	64.83	FS6
ATOM	39476	O	VAL	F	72	168.188	108.878	-83.190	1.00	64.83	FS6
ATOM	39477	N	ASN	F	73	167.335	107.614	-81.558	1.00	64.95	FS6
ATOM	39478	CA	ASN	F	73	168.606	106.958	-81.328	1.00	64.95	FS6
ATOM	39479	CB	ASN	F	73	168.496	105.975	-80.161	1.00101.69		FS6
ATOM	39480	CG	ASN	F	73	168.723	106.646	-78.817	1.00101.69		FS6
ATOM	39481	OD1	ASN	F	73	169.801	106.542	-78.226	1.00101.69		FS6
ATOM	39482	ND2	ASN	F	73	167.712	107.357	-78.337	1.00101.69		FS6
ATOM	39483	C	ASN	F	73	169.120	106.257	-82.575	1.00	64.95	FS6
ATOM	39484	O	ASN	F	73	170.252	106.489	-82.979	1.00	64.95	FS6
ATOM	39485	N	ASP	F	74	168.293	105.421	-83.198	1.00	89.72	FS6
ATOM	39486	CA	ASP	F	74	168.703	104.697	-84.403	1.00	89.72	FS6
ATOM	39487	CB	ASP	F	74	167.536	103.877	-84.936	1.00106.29		FS6
ATOM	39488	CG	ASP	F	74	166.804	103.148	-83.835	1.00106.29		FS6



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ATOM	39489	OD1	ASP	F	74	167.472	102.434	-83.065	1.00106.29	FS6
ATOM	39490	OD2	ASP	F	74	165.567	103.292	-83.726	1.00106.29	FS6
ATOM	39491	C	ASP	F	74	169.215	105.648	-85.480	1.00 89.72	FS6
ATOM	39492	O	ASP	F	74	170.196	105.351	-86.160	1.00 89.72	FS6
ATOM	39493	N	LEU	F	75	168.548	106.789	-85.627	1.00 63.22	FS6
ATOM	39494	CA	LEU	F	75	168.953	107.799	-86.600	1.00 63.22	FS6
ATOM	39495	CB	LEU	F	75	168.161	109.095	-86.374	1.00 79.46	FS6
ATOM	39496	CG	LEU	F	75	168.373	110.287	-87.322	1.00 79.46	FS6
ATOM	39497	CD1	LEU	F	75	169.748	110.904	-87.142	1.00 79.46	FS6
ATOM	39498	CD2	LEU	F	75	168.188	109.823	-88.752	1.00 79.46	FS6
ATOM	39499	C	LEU	F	75	170.452	108.086	-86.471	1.00 63.22	FS6
ATOM	39500	O	LEU	F	75	171.153	108.246	-87.472	1.00 63.22	FS6
ATOM	39501	N	ALA	F	76	170.944	108.150	-85.237	1.00 79.84	FS6
ATOM	39502	CA	ALA	F	76	172.358	108.425	-85.008	1.00 79.84	FS6
ATOM	39503	CB	ALA	F	76	172.553	109.114	-83.664	1.00 33.46	FS6
ATOM	39504	C	ALA	F	76	173.243	107.184	-85.098	1.00 79.84	FS6
ATOM	39505	O	ALA	F	76	174.379	107.284	-85.551	1.00 79.84	FS6
ATOM	39506	N	ARG	F	77	172.748	106.025	-84.667	1.00 77.54	FS6
ATOM	39507	CA	ARG	F	77	173.553	104.810	-84.760	1.00 77.54	FS6
ATOM	39508	CB	ARG	F	77	172.708	103.553	-84.631	1.00196.48	FS6
ATOM	39509	CG	ARG	F	77	171.997	103.368	-83.333	1.00196.48	FS6
ATOM	39510	CD	ARG	F	77	171.136	102.136	-83.460	1.00196.48	FS6
ATOM	39511	NE	ARG	F	77	170.286	101.915	-82.299	1.00196.48	FS6
ATOM	39512	CZ	ARG	F	77	169.386	100.941	-82.223	1.00196.48	FS6
ATOM	39513	NH1	ARG	F	77	169.226	100.107	-83.244	1.00196.48	FS6
ATOM	39514	NH2	ARG	F	77	168.639	100.806	-81.133	1.00196.48	FS6
ATOM	39515	C	ARG	F	77	174.072	104.851	-86.173	1.00 77.54	FS6
ATOM	39516	O	ARG	F	77	175.261	104.662	-86.420	1.00 77.54	FS6
ATOM	39517	N	GLU	F	78	173.149	105.120	-87.095	1.00 78.50	FS6
ATOM	39518	CA	GLU	F	78	173.437	105.196	-88.523	1.00 78.50	FS6
ATOM	39519	CB	GLU	F	78	172.133	105.396	-89.298	1.00125.71	FS6
ATOM	39520	CG	GLU	F	78	172.230	105.147	-90.795	1.00125.71	FS6
ATOM	39521	CD	GLU	F	78	172.334	103.670	-91.142	1.00125.71	FS6
ATOM	39522	OE1	GLU	F	78	171.463	102.891	-90.697	1.00125.71	FS6
ATOM	39523	OE2	GLU	F	78	173.279	103.289	-91.865	1.00125.71	FS6
ATOM	39524	C	GLU	F	78	174.397	106.337	-88.842	1.00 78.50	FS6
ATOM	39525	O	GLU	F	78	175.491	106.117	-89.363	1.00 78.50	FS6
ATOM	39526	N	LEU	F	79	173.981	107.558	-88.529	1.00 75.47	FS6
ATOM	39527	CA	LEU	F	79	174.811	108.719	-88.794	1.00 75.47	FS6
ATOM	39528	CB	LEU	F	79	174.257	109.951	-88.070	1.00 58.84	FS6
ATOM	39529	CG	LEU	F	79	172.935	110.575	-88.533	1.00 58.84	FS6
ATOM	39530	CD1	LEU	F	79	172.718	111.909	-87.822	1.00 58.84	FS6
ATOM	39531	CD2	LEU	F	79	172.972	110.797	-90.030	1.00 58.84	FS6
ATOM	39532	C	LEU	F	79	176.278	108.526	-88.398	1.00 75.47	FS6
ATOM	39533	O	LEU	F	79	177.173	109.013	-89.088	1.00 75.47	FS6
ATOM	39534	N	ARG	F	80	176.532	107.817	-87.300	1.00 86.77	FS6
ATOM	39535	CA	ARG	F	80	177.905	107.604	-86.829	1.00 86.77	FS6
ATOM	39536	CB	ARG	F	80	177.897	107.100	-85.381	1.00 81.84	FS6
ATOM	39537	CG	ARG	F	80	177.118	107.955	-84.380	1.00 81.84	FS6
ATOM	39538	CD	ARG	F	80	177.179	107.314	-82.978	1.00 81.84	FS6
ATOM	39539	NE	ARG	F	80	176.111	107.749	-82.075	1.00 81.84	FS6
ATOM	39540	CZ	ARG	F	80	175.904	109.010	-81.701	1.00 81.84	FS6
ATOM	39541	NH1	ARG	F	80	176.696	109.976	-82.158	1.00 81.84	FS6
ATOM	39542	NH2	ARG	F	80	174.910	109.301	-80.863	1.00 81.84	FS6
ATOM	39543	C	ARG	F	80	178.723	106.630	-87.684	1.00 86.77	FS6
ATOM	39544	O	ARG	F	80	179.948	106.757	-87.787	1.00 86.77	FS6
ATOM	39545	N	ILE	F	81	178.035	105.662	-88.281	1.00 82.03	FS6
ATOM	39546	CA	ILE	F	81	178.654	104.635	-89.120	1.00 82.03	FS6
ATOM	39547	CB	ILE	F	81	177.589	103.910	-89.945	1.00 86.96	FS6
ATOM	39548	CG2	ILE	F	81	178.246	102.941	-90.899	1.00 86.96	FS6
ATOM	39549	CG1	ILE	F	81	176.625	103.186	-89.005	1.00 86.96	FS6
ATOM	39550	CD1	ILE	F	81	175.420	102.579	-89.692	1.00 86.96	FS6
ATOM	39551	C	ILE	F	81	179.720	105.159	-90.075	1.00 82.03	FS6
ATOM	39552	O	ILE	F	81	180.777	104.540	-90.257	1.00 82.03	FS6
ATOM	39553	N	ARG	F	82	179.425	106.295	-90.695	1.00 92.25	FS6
ATOM	39554	CA	ARG	F	82	180.342	106.927	-91.631	1.00 92.25	FS6
ATOM	39555	CB	ARG	F	82	179.758	108.262	-92.105	1.00139.53	FS6
ATOM	39556	CG	ARG	F	82	178.517	108.160	-92.997	1.00139.53	FS6
ATOM	39557	CD	ARG	F	82	178.911	107.992	-94.453	1.00139.53	FS6
ATOM	39558	NE	ARG	F	82	179.283	106.622	-94.793	1.00139.53	FS6
ATOM	39559	CZ	ARG	F	82	180.003	106.283	-95.860	1.00139.53	FS6
ATOM	39560	NH1	ARG	F	82	180.441	107.215	-96.695	1.00139.53	FS6
ATOM	39561	NH2	ARG	F	82	180.269	105.008	-96.104	1.00139.53	FS6
ATOM	39562	C	ARG	F	82	181.714	107.163	-90.996	1.00 92.25	FS6
ATOM	39563	O	ARG	F	82	181.825	107.503	-89.812	1.00 92.25	FS6
ATOM	39564	N	ASP	F	83	182.757	106.978	-91.797	1.00 81.21	FS6
ATOM	39565	CA	ASP	F	83	184.113	107.174	-91.324	1.00 81.21	FS6



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ATOM	39566	CB	ASP	F	83	185.120	106.519	-92.271	1.00198.94	FS6
ATOM	39567	CG	ASP	F	83	185.039	105.008	-92.248	1.00198.94	FS6
ATOM	39568	OD1	ASP	F	83	185.932	104.357	-92.830	1.00198.94	FS6
ATOM	39569	OD2	ASP	F	83	184.081	104.472	-91.650	1.00198.94	FS6
ATOM	39570	C	ASP	F	83	184.432	108.648	-91.185	1.00 81.21	FS6
ATOM	39571	O	ASP	F	83	185.139	109.043	-90.268	1.00 81.21	FS6
ATOM	39572	N	ASN	F	84	183.925	109.473	-92.090	1.00 82.50	FS6
ATOM	39573	CA	ASN	F	84	184.205	110.894	-91.982	1.00 82.50	FS6
ATOM	39574	CB	ASN	F	84	183.987	111.599	-93.316	1.00123.46	FS6
ATOM	39575	CG	ASN	F	84	185.138	111.381	-94.270	1.00123.46	FS6
ATOM	39576	OD1	ASN	F	84	186.290	111.674	-93.944	1.00123.46	FS6
ATOM	39577	ND2	ASN	F	84	184.837	110.863	-95.453	1.00123.46	FS6
ATOM	39578	C	ASN	F	84	183.364	111.529	-90.896	1.00 82.50	FS6
ATOM	39579	O	ASN	F	84	183.640	112.642	-90.456	1.00 82.50	FS6
ATOM	39580	N	VAL	F	85	182.333	110.822	-90.458	1.00 76.85	FS6
ATOM	39581	CA	VAL	F	85	181.507	111.344	-89.385	1.00 76.85	FS6
ATOM	39582	CB	VAL	F	85	180.108	110.684	-89.357	1.00 75.00	FS6
ATOM	39583	CG1	VAL	F	85	179.397	111.034	-88.068	1.00 75.00	FS6
ATOM	39584	CG2	VAL	F	85	179.279	111.176	-90.532	1.00 75.00	FS6
ATOM	39585	C	VAL	F	85	182.258	111.023	-88.099	1.00 76.85	FS6
ATOM	39586	O	VAL	F	85	182.345	109.858	-87.684	1.00 76.85	FS6
ATOM	39587	N	ARG	F	86	182.820	112.060	-87.488	1.00 98.92	FS6
ATOM	39588	CA	ARG	F	86	183.576	111.895	-86.257	1.00 98.92	FS6
ATOM	39589	CB	ARG	F	86	184.954	112.557	-86.403	1.00 81.52	FS6
ATOM	39590	CG	ARG	F	86	185.045	113.611	-87.501	1.00 81.52	FS6
ATOM	39591	CD	ARG	F	86	186.503	114.014	-87.799	1.00 81.52	FS6
ATOM	39592	NE	ARG	F	86	187.229	113.013	-88.586	1.00 81.52	FS6
ATOM	39593	CZ	ARG	F	86	188.433	113.207	-89.121	1.00 81.52	FS6
ATOM	39594	NH1	ARG	F	86	189.063	114.365	-88.957	1.00 81.52	FS6
ATOM	39595	NH2	ARG	F	86	188.999	112.244	-89.835	1.00 81.52	FS6
ATOM	39596	C	ARG	F	86	182.845	112.407	-85.009	1.00 98.92	FS6
ATOM	39597	O	ARG	F	86	183.311	112.209	-83.880	1.00 98.92	FS6
ATOM	39598	N	ARG	F	87	181.695	113.047	-85.219	1.00 77.09	FS6
ATOM	39599	CA	ARG	F	87	180.871	113.559	-84.124	1.00 77.09	FS6
ATOM	39600	CB	ARG	F	87	181.397	114.892	-83.613	1.00 78.36	FS6
ATOM	39601	CG	ARG	F	87	182.533	114.769	-82.622	1.00 78.36	FS6
ATOM	39602	CD	ARG	F	87	182.081	114.440	-81.210	1.00 78.36	FS6
ATOM	39603	NE	ARG	F	87	183.169	114.751	-80.286	1.00 78.36	FS6
ATOM	39604	CZ	ARG	F	87	184.224	113.968	-80.065	1.00 78.36	FS6
ATOM	39605	NH1	ARG	F	87	184.340	112.798	-80.689	1.00 78.36	FS6
ATOM	39606	NH2	ARG	F	87	185.186	114.377	-79.245	1.00 78.36	FS6
ATOM	39607	C	ARG	F	87	179.423	113.746	-84.526	1.00 77.09	FS6
ATOM	39608	O	ARG	F	87	179.113	114.463	-85.477	1.00 77.09	FS6
ATOM	39609	N	VAL	F	88	178.545	113.091	-83.781	1.00 72.58	FS6
ATOM	39610	CA	VAL	F	88	177.112	113.173	-84.003	1.00 72.58	FS6
ATOM	39611	CB	VAL	F	88	176.553	111.812	-84.452	1.00 60.79	FS6
ATOM	39612	CG1	VAL	F	88	175.052	111.748	-84.219	1.00 60.79	FS6
ATOM	39613	CG2	VAL	F	88	176.856	111.598	-85.912	1.00 60.79	FS6
ATOM	39614	C	VAL	F	88	176.483	113.558	-82.673	1.00 72.58	FS6
ATOM	39615	O	VAL	F	88	176.953	113.123	-81.626	1.00 72.58	FS6
ATOM	39616	N	MET	F	89	175.444	114.389	-82.704	1.00 67.62	FS6
ATOM	39617	CA	MET	F	89	174.759	114.782	-81.475	1.00 67.62	FS6
ATOM	39618	CB	MET	F	89	175.573	115.811	-80.697	1.00 89.94	FS6
ATOM	39619	CG	MET	F	89	174.995	116.096	-79.322	1.00 89.94	FS6
ATOM	39620	SD	MET	F	89	176.125	117.022	-78.278	1.00 89.94	FS6
ATOM	39621	CE	MET	F	89	175.720	118.672	-78.776	1.00 89.94	FS6
ATOM	39622	C	MET	F	89	173.351	115.319	-81.701	1.00 67.62	FS6
ATOM	39623	O	MET	F	89	173.160	116.383	-82.290	1.00 67.62	FS6
ATOM	39624	N	VAL	F	90	172.367	114.573	-81.215	1.00 92.62	FS6
ATOM	39625	CA	VAL	F	90	170.972	114.961	-81.356	1.00 92.62	FS6
ATOM	39626	CB	VAL	F	90	170.096	113.748	-81.687	1.00 46.46	FS6
ATOM	39627	CG1	VAL	F	90	168.716	114.217	-82.120	1.00 46.46	FS6
ATOM	39628	CG2	VAL	F	90	170.777	112.892	-82.757	1.00 46.46	FS6
ATOM	39629	C	VAL	F	90	170.466	115.585	-80.061	1.00 92.62	FS6
ATOM	39630	O	VAL	F	90	170.355	114.917	-79.035	1.00 92.62	FS6
ATOM	39631	N	VAL	F	91	170.156	116.871	-80.116	1.00 63.03	FS6
ATOM	39632	CA	VAL	F	91	169.681	117.580	-78.945	1.00 63.03	FS6
ATOM	39633	CB	VAL	F	91	170.457	118.907	-78.746	1.00 73.16	FS6
ATOM	39634	CG1	VAL	F	91	169.786	119.763	-77.676	1.00 73.16	FS6
ATOM	39635	CG2	VAL	F	91	171.891	118.609	-78.349	1.00 73.16	FS6
ATOM	39636	C	VAL	F	91	168.202	117.890	-79.044	1.00 63.03	FS6
ATOM	39637	O	VAL	F	91	167.701	118.288	-80.095	1.00 63.03	FS6
ATOM	39638	N	LYS	F	92	167.501	117.686	-77.937	1.00 79.28	FS6
ATOM	39639	CA	LYS	F	92	166.084	117.984	-77.871	1.00 79.28	FS6
ATOM	39640	CB	LYS	F	92	165.556	117.669	-76.478	1.00 94.76	FS6
ATOM	39641	CG	LYS	F	92	165.084	116.254	-76.284	1.00 94.76	FS6
ATOM	39642	CD	LYS	F	92	163.640	116.142	-76.702	1.00 94.76	FS6



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ATOM	39643	CE	LYS	F	92	162.941	115.009	-75.967	1.00	94.76	FS6
ATOM	39644	NZ	LYS	F	92	163.069	115.088	-74.475	1.00	94.76	FS6
ATOM	39645	C	LYS	F	92	165.976	119.478	-78.125	1.00	79.28	FS6
ATOM	39646	O	LYS	F	92	166.708	120.273	-77.524	1.00	79.28	FS6
ATOM	39647	N	SER	F	93	165.088	119.868	-79.024	1.00	67.32	FS6
ATOM	39648	CA	SER	F	93	164.923	121.283	-79.297	1.00	67.32	FS6
ATOM	39649	CB	SER	F	93	163.853	121.482	-80.362	1.00119.89		FS6
ATOM	39650	OG	SER	F	93	164.121	120.669	-81.485	1.00119.89		FS6
ATOM	39651	C	SER	F	93	164.481	121.928	-77.986	1.00	67.32	FS6
ATOM	39652	O	SER	F	93	163.851	121.271	-77.160	1.00	67.32	FS6
ATOM	39653	N	GLN	F	94	164.814	123.197	-77.776	1.00	64.24	FS6
ATOM	39654	CA	GLN	F	94	164.403	123.873	-76.549	1.00	64.24	FS6
ATOM	39655	CB	GLN	F	94	165.414	123.637	-75.430	1.00142.30		FS6
ATOM	39656	CG	GLN	F	94	165.755	122.193	-75.175	1.00142.30		FS6
ATOM	39657	CD	GLN	F	94	166.568	122.019	-73.915	1.00142.30		FS6
ATOM	39658	OE1	GLN	F	94	167.283	121.032	-73.760	1.00142.30		FS6
ATOM	39659	NE2	GLN	F	94	166.455	122.975	-72.998	1.00142.30		FS6
ATOM	39660	C	GLN	F	94	164.242	125.372	-76.738	1.00	64.24	FS6
ATOM	39661	O	GLN	F	94	165.012	126.007	-77.460	1.00	64.24	FS6
ATOM	39662	N	GLU	F	95	163.239	125.937	-76.075	1.00	68.98	FS6
ATOM	39663	CA	GLU	F	95	162.985	127.368	-76.153	1.00	68.98	FS6
ATOM	39664	CB	GLU	F	95	161.805	127.742	-75.256	1.00198.94		FS6
ATOM	39665	CG	GLU	F	95	160.534	126.941	-75.519	1.00198.94		FS6
ATOM	39666	CD	GLU	F	95	160.731	125.439	-75.357	1.00198.94		FS6
ATOM	39667	OE1	GLU	F	95	161.248	125.006	-74.301	1.00198.94		FS6
ATOM	39668	OE2	GLU	F	95	160.363	124.690	-76.287	1.00198.94		FS6
ATOM	39669	C	GLU	F	95	164.251	128.079	-75.674	1.00	68.98	FS6
ATOM	39670	O	GLU	F	95	164.768	127.811	-74.585	1.00	68.98	FS6
ATOM	39671	N	PRO	F	96	164.774	128.996	-76.487	1.00111.71		FS6
ATOM	39672	CD	PRO	F	96	164.210	129.602	-77.704	1.00118.70		FS6
ATOM	39673	CA	PRO	F	96	165.986	129.694	-76.062	1.00111.71		FS6
ATOM	39674	CB	PRO	F	96	166.271	130.621	-77.237	1.00118.70		FS6
ATOM	39675	CG	PRO	F	96	164.893	130.952	-77.726	1.00118.70		FS6
ATOM	39676	C	PRO	F	96	165.811	130.450	-74.746	1.00111.71		FS6
ATOM	39677	O	PRO	F	96	165.010	131.377	-74.645	1.00111.71		FS6
ATOM	39678	N	PHE	F	97	166.561	130.031	-73.736	1.00	61.70	FS6
ATOM	39679	CA	PHE	F	97	166.535	130.671	-72.422	1.00	61.70	FS6
ATOM	39680	CB	PHE	F	97	166.961	129.643	-71.356	1.00	64.05	FS6
ATOM	39681	CG	PHE	F	97	166.951	130.164	-69.941	1.00	64.05	FS6
ATOM	39682	CD1	PHE	F	97	166.223	129.510	-68.960	1.00	64.05	FS6
ATOM	39683	CD2	PHE	F	97	167.704	131.275	-69.577	1.00	64.05	FS6
ATOM	39684	CE1	PHE	F	97	166.245	129.952	-67.636	1.00	64.05	FS6
ATOM	39685	CE2	PHE	F	97	167.733	131.725	-68.257	1.00	64.05	FS6
ATOM	39686	CZ	PHE	F	97	167.002	131.061	-67.287	1.00	64.05	FS6
ATOM	39687	C	PHE	F	97	167.501	131.877	-72.442	1.00	61.70	FS6
ATOM	39688	O	PHE	F	97	168.728	131.716	-72.487	1.00	61.70	FS6
ATOM	39689	N	LEU	F	98	166.948	133.085	-72.417	1.00	93.65	FS6
ATOM	39690	CA	LEU	F	98	167.777	134.285	-72.423	1.00	93.65	FS6
ATOM	39691	CB	LEU	F	98	166.987	135.476	-72.941	1.00114.44		FS6
ATOM	39692	CG	LEU	F	98	166.262	135.266	-74.260	1.00114.44		FS6
ATOM	39693	CD1	LEU	F	98	165.404	136.483	-74.547	1.00114.44		FS6
ATOM	39694	CD2	LEU	F	98	167.273	135.022	-75.369	1.00114.44		FS6
ATOM	39695	C	LEU	F	98	168.223	134.591	-71.009	1.00	93.65	FS6
ATOM	39696	O	LEU	F	98	167.627	134.119	-70.047	1.00	93.65	FS6
ATOM	39697	N	ALA	F	99	169.268	135.393	-70.884	1.00	73.29	FS6
ATOM	39698	CA	ALA	F	99	169.765	135.782	-69.573	1.00	73.29	FS6
ATOM	39699	CB	ALA	F	99	170.758	134.780	-69.072	1.00	67.21	FS6
ATOM	39700	C	ALA	F	99	170.429	137.124	-69.756	1.00	73.29	FS6
ATOM	39701	O	ALA	F	99	170.684	137.529	-70.895	1.00	73.29	FS6
ATOM	39702	N	ASN	F	100	170.708	137.812	-68.649	1.00143.49		FS6
ATOM	39703	CA	ASN	F	100	171.349	139.122	-68.713	1.00143.49		FS6
ATOM	39704	CB	ASN	F	100	172.871	138.946	-68.829	1.00127.49		FS6
ATOM	39705	CG	ASN	F	100	173.618	140.266	-68.852	1.00127.49		FS6
ATOM	39706	OD1	ASN	F	100	173.710	140.922	-69.888	1.00127.49		FS6
ATOM	39707	ND2	ASN	F	100	174.151	140.666	-67.702	1.00127.49		FS6
ATOM	39708	C	ASN	F	100	170.782	139.840	-69.938	1.00143.49		FS6
ATOM	39709	O	ASN	F	100	171.518	140.355	-70.780	1.00143.49		FS6
ATOM	39710	N	ALA	F	101	169.454	139.844	-70.028	1.00192.74		FS6
ATOM	39711	CA	ALA	F	101	168.747	140.456	-71.146	1.00192.74		FS6
ATOM	39712	CB	ALA	F	101	168.483	139.409	-72.210	1.00	93.55	FS6
ATOM	39713	C	ALA	F	101	167.428	141.081	-70.702	1.00192.74		FS6
ATOM	39714	O	ALA	F	101	167.139	141.054	-69.487	1.00192.74		FS6
ATOM	39715	OXT	ALA	F	101	166.694	141.584	-71.580	1.00137.11		FS6
TER	39715		ALA	F	101						FS6
ATOM	39716	CB	ALA	G	2	216.884	137.716	-23.245	1.00	76.04	GS7
ATOM	39717	C	ALA	G	2	214.653	136.702	-22.809	1.00	65.79	GS7
ATOM	39718	O	ALA	G	2	214.508	136.715	-24.028	1.00	65.79	GS7



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ATOM	39719	N	ALA	G	2	216.688	135.741	-21.738	1.00	65.79	GS7
ATOM	39720	CA	ALA	G	2	216.014	136.998	-22.203	1.00	65.79	GS7
ATOM	39721	N	ARG	G	3	213.651	136.459	-21.972	1.00	63.67	GS7
ATOM	39722	CA	ARG	G	3	212.331	136.156	-22.499	1.00	63.67	GS7
ATOM	39723	CB	ARG	G	3	211.564	135.286	-21.498	1.00	51.35	GS7
ATOM	39724	CG	ARG	G	3	210.343	134.602	-22.084	1.00	51.35	GS7
ATOM	39725	CD	ARG	G	3	209.604	133.831	-21.022	1.00	51.35	GS7
ATOM	39726	NE	ARG	G	3	210.190	132.522	-20.736	1.00	51.35	GS7
ATOM	39727	CZ	ARG	G	3	210.104	131.475	-21.556	1.00	51.35	GS7
ATOM	39728	NH1	ARG	G	3	209.461	131.585	-22.717	1.00	51.35	GS7
ATOM	39729	NH2	ARG	G	3	210.637	130.308	-21.211	1.00	51.35	GS7
ATOM	39730	C	ARG	G	3	211.549	137.429	-22.856	1.00	63.67	GS7
ATOM	39731	O	ARG	G	3	210.787	137.448	-23.828	1.00	63.67	GS7
ATOM	39732	N	ARG	G	4	211.745	138.492	-22.079	1.00	92.37	GS7
ATOM	39733	CA	ARG	G	4	211.064	139.759	-22.340	1.00	92.37	GS7
ATOM	39734	CB	ARG	G	4	210.813	140.530	-21.042	1.00	99.58	GS7
ATOM	39735	CG	ARG	G	4	210.035	139.816	-19.973	1.00	99.58	GS7
ATOM	39736	CD	ARG	G	4	209.870	140.759	-18.792	1.00	99.58	GS7
ATOM	39737	NE	ARG	G	4	209.261	140.134	-17.616	1.00	99.58	GS7
ATOM	39738	CZ	ARG	G	4	207.951	140.048	-17.386	1.00	99.58	GS7
ATOM	39739	NH1	ARG	G	4	207.082	140.552	-18.257	1.00	99.58	GS7
ATOM	39740	NH2	ARG	G	4	207.510	139.464	-16.275	1.00	99.58	GS7
ATOM	39741	C	ARG	G	4	211.920	140.637	-23.255	1.00	92.37	GS7
ATOM	39742	O	ARG	G	4	212.060	140.369	-24.446	1.00	92.37	GS7
ATOM	39743	N	ARG	G	5	212.502	141.680	-22.663	1.00	132.96	GS7
ATOM	39744	CA	ARG	G	5	213.347	142.654	-23.357	1.00	132.96	GS7
ATOM	39745	CB	ARG	G	5	214.051	143.550	-22.330	1.00	198.94	GS7
ATOM	39746	CG	ARG	G	5	213.089	144.283	-21.399	1.00	198.94	GS7
ATOM	39747	CD	ARG	G	5	213.803	144.938	-20.222	1.00	198.94	GS7
ATOM	39748	NE	ARG	G	5	212.855	145.490	-19.255	1.00	198.94	GS7
ATOM	39749	CZ	ARG	G	5	213.196	146.036	-18.091	1.00	198.94	GS7
ATOM	39750	NH1	ARG	G	5	214.472	146.109	-17.735	1.00	198.94	GS7
ATOM	39751	NH2	ARG	G	5	212.260	146.508	-17.280	1.00	198.94	GS7
ATOM	39752	C	ARG	G	5	214.378	142.033	-24.281	1.00	132.96	GS7
ATOM	39753	O	ARG	G	5	214.626	140.829	-24.241	1.00	132.96	GS7
ATOM	39754	N	ARG	G	6	214.986	142.866	-25.115	1.00	74.05	GS7
ATOM	39755	CA	ARG	G	6	215.980	142.380	-26.053	1.00	74.05	GS7
ATOM	39756	CB	ARG	G	6	215.715	142.969	-27.435	1.00	180.86	GS7
ATOM	39757	CG	ARG	G	6	216.514	142.321	-28.544	1.00	180.86	GS7
ATOM	39758	CD	ARG	G	6	216.053	142.831	-29.891	1.00	180.86	GS7
ATOM	39759	NE	ARG	G	6	216.798	142.230	-30.992	1.00	180.86	GS7
ATOM	39760	CZ	ARG	G	6	216.555	142.479	-32.274	1.00	180.86	GS7
ATOM	39761	NH1	ARG	G	6	215.584	143.319	-32.612	1.00	180.86	GS7
ATOM	39762	NH2	ARG	G	6	217.281	141.892	-33.218	1.00	180.86	GS7
ATOM	39763	C	ARG	G	6	217.393	142.720	-25.601	1.00	74.05	GS7
ATOM	39764	O	ARG	G	6	218.208	143.177	-26.401	1.00	74.05	GS7
ATOM	39765	N	ALA	G	7	217.674	142.483	-24.319	1.00	136.86	GS7
ATOM	39766	CA	ALA	G	7	218.984	142.746	-23.706	1.00	136.86	GS7
ATOM	39767	CB	ALA	G	7	219.706	141.415	-23.403	1.00	59.45	GS7
ATOM	39768	C	ALA	G	7	219.910	143.662	-24.506	1.00	136.86	GS7
ATOM	39769	O	ALA	G	7	220.500	143.251	-25.507	1.00	136.86	GS7
ATOM	39770	N	GLU	G	8	220.038	144.905	-24.055	1.00	112.24	GS7
ATOM	39771	CA	GLU	G	8	220.910	145.863	-24.720	1.00	112.24	GS7
ATOM	39772	CB	GLU	G	8	220.655	147.282	-24.195	1.00	198.94	GS7
ATOM	39773	CG	GLU	G	8	219.994	147.372	-22.816	1.00	198.94	GS7
ATOM	39774	CD	GLU	G	8	220.839	146.794	-21.695	1.00	198.94	GS7
ATOM	39775	OE1	GLU	G	8	221.015	145.557	-21.653	1.00	198.94	GS7
ATOM	39776	OE2	GLU	G	8	221.326	147.582	-20.854	1.00	198.94	GS7
ATOM	39777	C	GLU	G	8	222.366	145.468	-24.499	1.00	112.24	GS7
ATOM	39778	O	GLU	G	8	222.677	144.705	-23.587	1.00	112.24	GS7
ATOM	39779	N	VAL	G	9	223.261	145.995	-25.327	1.00	83.35	GS7
ATOM	39780	CA	VAL	G	9	224.671	145.655	-25.220	1.00	83.35	GS7
ATOM	39781	CB	VAL	G	9	225.304	145.595	-26.609	1.00	75.25	GS7
ATOM	39782	CG1	VAL	G	9	226.687	144.979	-26.522	1.00	75.25	GS7
ATOM	39783	CG2	VAL	G	9	224.411	144.792	-27.537	1.00	75.25	GS7
ATOM	39784	C	VAL	G	9	225.512	146.582	-24.353	1.00	83.35	GS7
ATOM	39785	O	VAL	G	9	225.543	147.793	-24.564	1.00	83.35	GS7
ATOM	39786	N	ARG	G	10	226.198	146.004	-23.373	1.00	80.48	GS7
ATOM	39787	CA	ARG	G	10	227.062	146.794	-22.507	1.00	80.48	GS7
ATOM	39788	CB	ARG	G	10	227.859	145.885	-21.570	1.00	64.77	GS7
ATOM	39789	CG	ARG	G	10	227.054	145.123	-20.553	1.00	64.77	GS7
ATOM	39790	CD	ARG	G	10	227.984	144.326	-19.646	1.00	64.77	GS7
ATOM	39791	NE	ARG	G	10	227.261	143.731	-18.526	1.00	64.77	GS7
ATOM	39792	CZ	ARG	G	10	226.917	144.387	-17.419	1.00	64.77	GS7
ATOM	39793	NH1	ARG	G	10	227.238	145.669	-17.261	1.00	64.77	GS7
ATOM	39794	NH2	ARG	G	10	226.224	143.762	-16.476	1.00	64.77	GS7
ATOM	39795	C	ARG	G	10	228.045	147.526	-23.415	1.00	80.48	GS7



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ATOM	39796	O	ARG	G	10	228.733	146.883	-24.208	1.00	80.48	GS7
ATOM	39797	N	GLN	G	11	228.113	148.853	-23.317	1.00	93.97	GS7
ATOM	39798	CA	GLN	G	11	229.046	149.624	-24.145	1.00	93.97	GS7
ATOM	39799	CB	GLN	G	11	228.431	150.961	-24.564	1.00	80.47	GS7
ATOM	39800	CG	GLN	G	11	228.210	151.076	-26.056	1.00	80.47	GS7
ATOM	39801	CD	GLN	G	11	227.320	149.968	-26.591	1.00	80.47	GS7
ATOM	39802	OE1	GLN	G	11	226.159	149.859	-26.211	1.00	80.47	GS7
ATOM	39803	NE2	GLN	G	11	227.866	149.135	-27.471	1.00	80.47	GS7
ATOM	39804	C	GLN	G	11	230.337	149.874	-23.381	1.00	93.97	GS7
ATOM	39805	O	GLN	G	11	230.461	150.863	-22.666	1.00	93.97	GS7
ATOM	39806	N	LEU	G	12	231.300	148.974	-23.545	1.00	78.47	GS7
ATOM	39807	CA	LEU	G	12	232.579	149.067	-22.850	1.00	78.47	GS7
ATOM	39808	CB	LEU	G	12	233.527	147.969	-23.345	1.00	119.96	GS7
ATOM	39809	CG	LEU	G	12	232.929	146.577	-23.581	1.00	119.96	GS7
ATOM	39810	CD1	LEU	G	12	232.215	146.565	-24.929	1.00	119.96	GS7
ATOM	39811	CD2	LEU	G	12	234.025	145.518	-23.568	1.00	119.96	GS7
ATOM	39812	C	LEU	G	12	233.240	150.424	-23.033	1.00	78.47	GS7
ATOM	39813	O	LEU	G	12	233.075	151.066	-24.072	1.00	78.47	GS7
ATOM	39814	N	GLN	G	13	233.978	150.855	-22.013	1.00	100.97	GS7
ATOM	39815	CA	GLN	G	13	234.692	152.129	-22.054	1.00	100.97	GS7
ATOM	39816	CB	GLN	G	13	235.098	152.554	-20.643	1.00	143.15	GS7
ATOM	39817	CG	GLN	G	13	233.966	153.146	-19.839	1.00	143.15	GS7
ATOM	39818	CD	GLN	G	13	233.383	154.377	-20.505	1.00	143.15	GS7
ATOM	39819	OE1	GLN	G	13	234.096	155.344	-20.778	1.00	143.15	GS7
ATOM	39820	NE2	GLN	G	13	232.082	154.348	-20.774	1.00	143.15	GS7
ATOM	39821	C	GLN	G	13	235.939	151.974	-22.918	1.00	100.97	GS7
ATOM	39822	O	GLN	G	13	236.748	151.079	-22.683	1.00	100.97	GS7
ATOM	39823	N	PRO	G	14	236.120	152.853	-23.921	1.00	87.54	GS7
ATOM	39824	CD	PRO	G	14	235.352	154.090	-24.124	1.00	72.36	GS7
ATOM	39825	CA	PRO	G	14	237.273	152.814	-24.831	1.00	87.54	GS7
ATOM	39826	CB	PRO	G	14	237.158	154.132	-25.595	1.00	72.36	GS7
ATOM	39827	CG	PRO	G	14	236.410	155.015	-24.652	1.00	72.36	GS7
ATOM	39828	C	PRO	G	14	238.652	152.620	-24.196	1.00	87.54	GS7
ATOM	39829	O	PRO	G	14	238.814	152.662	-22.971	1.00	87.54	GS7
ATOM	39830	N	ASP	G	15	239.648	152.420	-25.053	1.00	87.64	GS7
ATOM	39831	CA	ASP	G	15	241.015	152.176	-24.612	1.00	87.64	GS7
ATOM	39832	CB	ASP	G	15	241.860	151.691	-25.790	1.00	106.05	GS7
ATOM	39833	CG	ASP	G	15	243.062	150.901	-25.340	1.00	106.05	GS7
ATOM	39834	OD1	ASP	G	15	244.059	150.817	-26.088	1.00	106.05	GS7
ATOM	39835	OD2	ASP	G	15	242.992	150.352	-24.223	1.00	106.05	GS7
ATOM	39836	C	ASP	G	15	241.744	153.344	-23.945	1.00	87.64	GS7
ATOM	39837	O	ASP	G	15	241.581	154.505	-24.323	1.00	87.64	GS7
ATOM	39838	N	LEU	G	16	242.564	153.010	-22.954	1.00	100.75	GS7
ATOM	39839	CA	LEU	G	16	243.364	153.993	-22.231	1.00	100.75	GS7
ATOM	39840	CB	LEU	G	16	243.821	153.432	-20.879	1.00	112.02	GS7
ATOM	39841	CG	LEU	G	16	242.826	153.191	-19.745	1.00	112.02	GS7
ATOM	39842	CD1	LEU	G	16	242.363	154.531	-19.217	1.00	112.02	GS7
ATOM	39843	CD2	LEU	G	16	241.655	152.334	-20.227	1.00	112.02	GS7
ATOM	39844	C	LEU	G	16	244.605	154.303	-23.059	1.00	100.75	GS7
ATOM	39845	O	LEU	G	16	245.502	155.005	-22.598	1.00	100.75	GS7
ATOM	39846	N	VAL	G	17	244.664	153.764	-24.273	1.00	88.87	GS7
ATOM	39847	CA	VAL	G	17	245.821	153.979	-25.133	1.00	88.87	GS7
ATOM	39848	CB	VAL	G	17	246.705	152.734	-25.189	1.00	67.68	GS7
ATOM	39849	CG1	VAL	G	17	247.921	153.007	-26.055	1.00	67.68	GS7
ATOM	39850	CG2	VAL	G	17	247.130	152.344	-23.785	1.00	67.68	GS7
ATOM	39851	C	VAL	G	17	245.461	154.364	-26.555	1.00	88.87	GS7
ATOM	39852	O	VAL	G	17	245.772	155.468	-26.993	1.00	88.87	GS7
ATOM	39853	N	TYR	G	18	244.831	153.452	-27.288	1.00	81.68	GS7
ATOM	39854	CA	TYR	G	18	244.426	153.745	-28.659	1.00	81.68	GS7
ATOM	39855	CB	TYR	G	18	244.440	152.473	-29.498	1.00	84.93	GS7
ATOM	39856	CG	TYR	G	18	245.744	151.728	-29.414	1.00	84.93	GS7
ATOM	39857	CD1	TYR	G	18	246.162	151.150	-28.217	1.00	84.93	GS7
ATOM	39858	CE1	TYR	G	18	247.373	150.474	-28.130	1.00	84.93	GS7
ATOM	39859	CD2	TYR	G	18	246.570	151.613	-30.527	1.00	84.93	GS7
ATOM	39860	CE2	TYR	G	18	247.785	150.941	-30.456	1.00	84.93	GS7
ATOM	39861	CZ	TYR	G	18	248.182	150.376	-29.254	1.00	84.93	GS7
ATOM	39862	OH	TYR	G	18	249.391	149.725	-29.177	1.00	84.93	GS7
ATOM	39863	C	TYR	G	18	243.017	154.328	-28.608	1.00	81.68	GS7
ATOM	39864	O	TYR	G	18	242.444	154.715	-29.631	1.00	81.68	GS7
ATOM	39865	N	GLY	G	19	242.474	154.389	-27.395	1.00	81.56	GS7
ATOM	39866	CA	GLY	G	19	241.145	154.928	-27.192	1.00	81.56	GS7
ATOM	39867	C	GLY	G	19	240.097	154.130	-27.928	1.00	81.56	GS7
ATOM	39868	O	GLY	G	19	238.990	154.608	-28.150	1.00	81.56	GS7
ATOM	39869	N	ASP	G	20	240.434	152.907	-28.314	1.00	124.95	GS7
ATOM	39870	CA	ASP	G	20	239.473	152.088	-29.028	1.00	124.95	GS7
ATOM	39871	CB	ASP	G	20	240.176	151.197	-30.048	1.00	134.47	GS7
ATOM	39872	CG	ASP	G	20	239.208	150.574	-31.030	1.00	134.47	GS7



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ATOM	39873	OD1	ASP	G	20	238.231	149.938	-30.584	1.00134.47	GS7
ATOM	39874	OD2	ASP	G	20	239.420	150.721	-32.249	1.00134.47	GS7
ATOM	39875	C	ASP	G	20	238.681	151.226	-28.060	1.00124.95	GS7
ATOM	39876	O	ASP	G	20	239.202	150.769	-27.043	1.00124.95	GS7
ATOM	39877	N	VAL	G	21	237.414	151.012	-28.384	1.00 93.44	GS7
ATOM	39878	CA	VAL	G	21	236.542	150.201	-27.554	1.00 93.44	GS7
ATOM	39879	CB	VAL	G	21	235.074	150.442	-27.927	1.00 94.50	GS7
ATOM	39880	CG1	VAL	G	21	234.765	151.929	-27.849	1.00 94.50	GS7
ATOM	39881	CG2	VAL	G	21	234.799	149.926	-29.336	1.00 94.50	GS7
ATOM	39882	C	VAL	G	21	236.880	148.727	-27.762	1.00 93.44	GS7
ATOM	39883	O	VAL	G	21	237.048	147.970	-26.800	1.00 93.44	GS7
ATOM	39884	N	LEU	G	22	236.991	148.339	-29.031	1.00 82.30	GS7
ATOM	39885	CA	LEU	G	22	237.301	146.969	-29.421	1.00 82.30	GS7
ATOM	39886	CB	LEU	G	22	237.517	146.890	-30.932	1.00 56.56	GS7
ATOM	39887	CG	LEU	G	22	237.769	145.490	-31.499	1.00 56.56	GS7
ATOM	39888	CD1	LEU	G	22	236.490	144.669	-31.424	1.00 56.56	GS7
ATOM	39889	CD2	LEU	G	22	238.247	145.596	-32.939	1.00 56.56	GS7
ATOM	39890	C	LEU	G	22	238.538	146.449	-28.705	1.00 82.30	GS7
ATOM	39891	O	LEU	G	22	238.690	145.247	-28.503	1.00 82.30	GS7
ATOM	39892	N	VAL	G	23	239.433	147.352	-28.330	1.00 60.85	GS7
ATOM	39893	CA	VAL	G	23	240.634	146.935	-27.625	1.00 60.85	GS7
ATOM	39894	CB	VAL	G	23	241.644	148.102	-27.491	1.00 66.15	GS7
ATOM	39895	CG1	VAL	G	23	242.764	147.733	-26.508	1.00 66.15	GS7
ATOM	39896	CG2	VAL	G	23	242.227	148.425	-28.866	1.00 66.15	GS7
ATOM	39897	C	VAL	G	23	240.219	146.431	-26.248	1.00 60.85	GS7
ATOM	39898	O	VAL	G	23	240.593	145.328	-25.840	1.00 60.85	GS7
ATOM	39899	N	THR	G	24	239.432	147.233	-25.541	1.00 70.83	GS7
ATOM	39900	CA	THR	G	24	238.969	146.831	-24.223	1.00 70.83	GS7
ATOM	39901	CB	THR	G	24	237.897	147.783	-23.692	1.00 60.80	GS7
ATOM	39902	OG1	THR	G	24	238.150	149.094	-24.206	1.00 60.80	GS7
ATOM	39903	CG2	THR	G	24	237.918	147.817	-22.149	1.00 60.80	GS7
ATOM	39904	C	THR	G	24	238.349	145.454	-24.382	1.00 70.83	GS7
ATOM	39905	O	THR	G	24	238.666	144.521	-23.640	1.00 70.83	GS7
ATOM	39906	N	ALA	G	25	237.468	145.344	-25.370	1.00 51.34	GS7
ATOM	39907	CA	ALA	G	25	236.795	144.096	-25.668	1.00 51.34	GS7
ATOM	39908	CB	ALA	G	25	236.121	144.185	-27.026	1.00 56.68	GS7
ATOM	39909	C	ALA	G	25	237.827	142.980	-25.671	1.00 51.34	GS7
ATOM	39910	O	ALA	G	25	237.821	142.106	-24.802	1.00 51.34	GS7
ATOM	39911	N	PHE	G	26	238.726	143.020	-26.647	1.00 63.02	GS7
ATOM	39912	CA	PHE	G	26	239.771	142.009	-26.763	1.00 63.02	GS7
ATOM	39913	CB	PHE	G	26	240.747	142.402	-27.879	1.00 55.88	GS7
ATOM	39914	CG	PHE	G	26	241.828	141.387	-28.131	1.00 55.88	GS7
ATOM	39915	CD1	PHE	G	26	241.528	140.168	-28.719	1.00 55.88	GS7
ATOM	39916	CD2	PHE	G	26	243.148	141.654	-27.778	1.00 55.88	GS7
ATOM	39917	CE1	PHE	G	26	242.528	139.231	-28.952	1.00 55.88	GS7
ATOM	39918	CE2	PHE	G	26	244.150	140.724	-28.007	1.00 55.88	GS7
ATOM	39919	CZ	PHE	G	26	243.839	139.512	-28.594	1.00 55.88	GS7
ATOM	39920	C	PHE	G	26	240.526	141.826	-25.437	1.00 63.02	GS7
ATOM	39921	O	PHE	G	26	240.733	140.700	-24.983	1.00 63.02	GS7
ATOM	39922	N	ILE	G	27	240.924	142.933	-24.814	1.00 48.75	GS7
ATOM	39923	CA	ILE	G	27	241.659	142.841	-23.562	1.00 48.75	GS7
ATOM	39924	CB	ILE	G	27	242.024	144.227	-22.990	1.00 56.52	GS7
ATOM	39925	CG2	ILE	G	27	242.877	144.062	-21.733	1.00 56.52	GS7
ATOM	39926	CG1	ILE	G	27	242.809	145.026	-24.032	1.00 56.52	GS7
ATOM	39927	CD1	ILE	G	27	243.425	146.318	-23.512	1.00 56.52	GS7
ATOM	39928	C	ILE	G	27	240.861	142.088	-22.521	1.00 48.75	GS7
ATOM	39929	O	ILE	G	27	241.425	141.337	-21.723	1.00 48.75	GS7
ATOM	39930	N	ASN	G	28	239.547	142.277	-22.531	1.00 63.57	GS7
ATOM	39931	CA	ASN	G	28	238.702	141.599	-21.560	1.00 63.57	GS7
ATOM	39932	CB	ASN	G	28	237.279	142.151	-21.611	1.00 72.52	GS7
ATOM	39933	CG	ASN	G	28	237.199	143.576	-21.084	1.00 72.52	GS7
ATOM	39934	OD1	ASN	G	28	237.619	143.856	-19.959	1.00 72.52	GS7
ATOM	39935	ND2	ASN	G	28	236.663	144.481	-21.895	1.00 72.52	GS7
ATOM	39936	C	ASN	G	28	238.717	140.091	-21.747	1.00 63.57	GS7
ATOM	39937	O	ASN	G	28	238.800	139.353	-20.764	1.00 63.57	GS7
ATOM	39938	N	LYS	G	29	238.653	139.627	-22.994	1.00 56.19	GS7
ATOM	39939	CA	LYS	G	29	238.709	138.187	-23.254	1.00 56.19	GS7
ATOM	39940	CB	LYS	G	29	238.535	137.896	-24.739	1.00 51.25	GS7
ATOM	39941	CG	LYS	G	29	237.097	137.785	-25.179	1.00 51.25	GS7
ATOM	39942	CD	LYS	G	29	236.408	136.586	-24.533	1.00 51.25	GS7
ATOM	39943	CE	LYS	G	29	234.975	136.422	-25.053	1.00 51.25	GS7
ATOM	39944	NZ	LYS	G	29	234.216	135.362	-24.307	1.00 51.25	GS7
ATOM	39945	C	LYS	G	29	240.054	137.631	-22.788	1.00 56.19	GS7
ATOM	39946	O	LYS	G	29	240.167	136.467	-22.427	1.00 56.19	GS7
ATOM	39947	N	ILE	G	30	241.073	138.475	-22.794	1.00 48.79	GS7
ATOM	39948	CA	ILE	G	30	242.399	138.071	-22.372	1.00 48.79	GS7
ATOM	39949	CB	ILE	G	30	243.448	139.092	-22.845	1.00 57.74	GS7



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ATOM	39950	CG2	ILE	G	30	244.819	138.714	-22.296	1.00	57.74	GS7
ATOM	39951	CG1	ILE	G	30	243.434	139.172	-24.383	1.00	57.74	GS7
ATOM	39952	CD1	ILE	G	30	244.365	140.209	-24.974	1.00	57.74	GS7
ATOM	39953	C	ILE	G	30	242.447	137.967	-20.854	1.00	48.79	GS7
ATOM	39954	O	ILE	G	30	243.158	137.124	-20.304	1.00	48.79	GS7
ATOM	39955	N	MET	G	31	241.687	138.829	-20.184	1.00	60.55	GS7
ATOM	39956	CA	MET	G	31	241.629	138.848	-18.724	1.00	60.55	GS7
ATOM	39957	CB	MET	G	31	240.865	140.080	-18.242	1.00	89.19	GS7
ATOM	39958	CG	MET	G	31	240.259	139.933	-16.845	1.00	89.19	GS7
ATOM	39959	SD	MET	G	31	239.433	141.429	-16.260	1.00	89.19	GS7
ATOM	39960	CE	MET	G	31	238.294	141.745	-17.620	1.00	89.19	GS7
ATOM	39961	C	MET	G	31	240.960	137.615	-18.137	1.00	60.55	GS7
ATOM	39962	O	MET	G	31	240.089	137.019	-18.761	1.00	60.55	GS7
ATOM	39963	N	ARG	G	32	241.370	137.247	-16.928	1.00	67.72	GS7
ATOM	39964	CA	ARG	G	32	240.792	136.105	-16.228	1.00	67.72	GS7
ATOM	39965	CB	ARG	G	32	241.552	134.813	-16.576	1.00	96.42	GS7
ATOM	39966	CG	ARG	G	32	243.068	134.864	-16.430	1.00	96.42	GS7
ATOM	39967	CD	ARG	G	32	243.750	133.625	-17.060	1.00	96.42	GS7
ATOM	39968	NE	ARG	G	32	243.560	133.541	-18.515	1.00	96.42	GS7
ATOM	39969	CZ	ARG	G	32	244.156	132.653	-19.314	1.00	96.42	GS7
ATOM	39970	NH1	ARG	G	32	244.998	131.756	-18.813	1.00	96.42	GS7
ATOM	39971	NH2	ARG	G	32	243.902	132.658	-20.619	1.00	96.42	GS7
ATOM	39972	C	ARG	G	32	240.830	136.381	-14.727	1.00	67.72	GS7
ATOM	39973	O	ARG	G	32	241.805	136.933	-14.230	1.00	67.72	GS7
ATOM	39974	N	ASP	G	33	239.765	136.020	-14.012	1.00	72.06	GS7
ATOM	39975	CA	ASP	G	33	239.683	136.267	-12.568	1.00	72.06	GS7
ATOM	39976	CB	ASP	G	33	240.826	135.588	-11.831	1.00	64.13	GS7
ATOM	39977	CG	ASP	G	33	240.983	134.156	-12.224	1.00	64.13	GS7
ATOM	39978	OD1	ASP	G	33	240.264	133.718	-13.148	1.00	64.13	GS7
ATOM	39979	OD2	ASP	G	33	241.830	133.468	-11.618	1.00	64.13	GS7
ATOM	39980	C	ASP	G	33	239.732	137.767	-12.284	1.00	72.06	GS7
ATOM	39981	O	ASP	G	33	240.189	138.203	-11.222	1.00	72.06	GS7
ATOM	39982	N	GLY	G	34	239.276	138.551	-13.255	1.00	78.01	GS7
ATOM	39983	CA	GLY	G	34	239.238	139.989	-13.096	1.00	78.01	GS7
ATOM	39984	C	GLY	G	34	240.563	140.689	-12.902	1.00	78.01	GS7
ATOM	39985	O	GLY	G	34	240.577	141.831	-12.459	1.00	78.01	GS7
ATOM	39986	N	LYS	G	35	241.673	140.031	-13.211	1.00	61.41	GS7
ATOM	39987	CA	LYS	G	35	242.973	140.682	-13.073	1.00	61.41	GS7
ATOM	39988	CB	LYS	G	35	244.078	139.648	-12.943	1.00	51.68	GS7
ATOM	39989	CG	LYS	G	35	243.821	138.670	-11.850	1.00	51.68	GS7
ATOM	39990	CD	LYS	G	35	244.930	137.642	-11.750	1.00	51.68	GS7
ATOM	39991	CE	LYS	G	35	246.217	138.235	-11.202	1.00	51.68	GS7
ATOM	39992	NZ	LYS	G	35	247.136	137.132	-10.815	1.00	51.68	GS7
ATOM	39993	C	LYS	G	35	243.189	141.515	-14.329	1.00	61.41	GS7
ATOM	39994	O	LYS	G	35	244.200	141.380	-15.029	1.00	61.41	GS7
ATOM	39995	N	LYS	G	36	242.209	142.374	-14.597	1.00	71.81	GS7
ATOM	39996	CA	LYS	G	36	242.196	143.251	-15.759	1.00	71.81	GS7
ATOM	39997	CB	LYS	G	36	241.078	144.276	-15.611	1.00	75.66	GS7
ATOM	39998	CG	LYS	G	36	240.894	145.141	-16.824	1.00	75.66	GS7
ATOM	39999	CD	LYS	G	36	239.892	146.241	-16.541	1.00	75.66	GS7
ATOM	40000	CE	LYS	G	36	239.346	146.801	-17.845	1.00	75.66	GS7
ATOM	40001	NZ	LYS	G	36	238.736	145.710	-18.682	1.00	75.66	GS7
ATOM	40002	C	LYS	G	36	243.500	143.980	-16.061	1.00	71.81	GS7
ATOM	40003	O	LYS	G	36	243.737	144.361	-17.206	1.00	71.81	GS7
ATOM	40004	N	ASN	G	37	244.341	144.177	-15.047	1.00	69.99	GS7
ATOM	40005	CA	ASN	G	37	245.604	144.884	-15.251	1.00	69.99	GS7
ATOM	40006	CB	ASN	G	37	246.208	145.289	-13.899	1.00	68.93	GS7
ATOM	40007	CG	ASN	G	37	247.210	146.438	-14.018	1.00	68.93	GS7
ATOM	40008	OD1	ASN	G	37	248.417	146.225	-13.915	1.00	68.93	GS7
ATOM	40009	ND2	ASN	G	37	246.710	147.659	-14.237	1.00	68.93	GS7
ATOM	40010	C	ASN	G	37	246.545	143.973	-16.020	1.00	69.99	GS7
ATOM	40011	O	ASN	G	37	247.077	144.351	-17.072	1.00	69.99	GS7
ATOM	40012	N	LEU	G	38	246.734	142.770	-15.486	1.00	68.82	GS7
ATOM	40013	CA	LEU	G	38	247.575	141.757	-16.110	1.00	68.82	GS7
ATOM	40014	CB	LEU	G	38	247.422	140.436	-15.340	1.00	70.53	GS7
ATOM	40015	CG	LEU	G	38	247.648	139.041	-15.941	1.00	70.53	GS7
ATOM	40016	CD1	LEU	G	38	248.815	139.062	-16.904	1.00	70.53	GS7
ATOM	40017	CD2	LEU	G	38	247.888	138.024	-14.804	1.00	70.53	GS7
ATOM	40018	C	LEU	G	38	247.134	141.605	-17.565	1.00	68.82	GS7
ATOM	40019	O	LEU	G	38	247.955	141.511	-18.477	1.00	68.82	GS7
ATOM	40020	N	ALA	G	39	245.824	141.613	-17.775	1.00	77.77	GS7
ATOM	40021	CA	ALA	G	39	245.272	141.479	-19.112	1.00	77.77	GS7
ATOM	40022	CB	ALA	G	39	243.760	141.475	-19.052	1.00	124.75	GS7
ATOM	40023	C	ALA	G	39	245.749	142.598	-20.017	1.00	77.77	GS7
ATOM	40024	O	ALA	G	39	246.291	142.342	-21.086	1.00	77.77	GS7
ATOM	40025	N	ALA	G	40	245.541	143.838	-19.586	1.00	73.67	GS7
ATOM	40026	CA	ALA	G	40	245.947	144.998	-20.371	1.00	73.67	GS7



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ATOM	40027	CB	ALA	G	40	245.620	146.274	-19.633	1.00	85.03	GS7
ATOM	40028	C	ALA	G	40	247.431	144.939	-20.657	1.00	73.67	GS7
ATOM	40029	O	ALA	G	40	247.852	145.154	-21.793	1.00	73.67	GS7
ATOM	40030	N	ARG	G	41	248.226	144.669	-19.625	1.00	75.32	GS7
ATOM	40031	CA	ARG	G	41	249.664	144.559	-19.817	1.00	75.32	GS7
ATOM	40032	CB	ARG	G	41	250.327	143.865	-18.637	1.00	161.79	GS7
ATOM	40033	CG	ARG	G	41	250.674	144.725	-17.463	1.00	161.79	GS7
ATOM	40034	CD	ARG	G	41	251.426	143.852	-16.493	1.00	161.79	GS7
ATOM	40035	NE	ARG	G	41	251.739	144.523	-15.244	1.00	161.79	GS7
ATOM	40036	CZ	ARG	G	41	252.178	143.889	-14.164	1.00	161.79	GS7
ATOM	40037	NH1	ARG	G	41	252.350	142.574	-14.191	1.00	161.79	GS7
ATOM	40038	NH2	ARG	G	41	252.441	144.567	-13.057	1.00	161.79	GS7
ATOM	40039	C	ARG	G	41	249.874	143.678	-21.034	1.00	75.32	GS7
ATOM	40040	O	ARG	G	41	250.205	144.155	-22.122	1.00	75.32	GS7
ATOM	40041	N	ILE	G	42	249.666	142.380	-20.826	1.00	68.71	GS7
ATOM	40042	CA	ILE	G	42	249.819	141.385	-21.873	1.00	68.71	GS7
ATOM	40043	CB	ILE	G	42	248.853	140.193	-21.672	1.00	63.67	GS7
ATOM	40044	CG2	ILE	G	42	248.932	139.266	-22.879	1.00	63.67	GS7
ATOM	40045	CG1	ILE	G	42	249.199	139.444	-20.376	1.00	63.67	GS7
ATOM	40046	CD1	ILE	G	42	248.467	138.114	-20.193	1.00	63.67	GS7
ATOM	40047	C	ILE	G	42	249.556	141.977	-23.246	1.00	68.71	GS7
ATOM	40048	O	ILE	G	42	250.451	142.042	-24.079	1.00	68.71	GS7
ATOM	40049	N	PHE	G	43	248.327	142.418	-23.474	1.00	81.43	GS7
ATOM	40050	CA	PHE	G	43	247.970	142.988	-24.760	1.00	81.43	GS7
ATOM	40051	CB	PHE	G	43	246.569	143.546	-24.756	1.00	49.96	GS7
ATOM	40052	CG	PHE	G	43	246.226	144.235	-26.032	1.00	49.96	GS7
ATOM	40053	CD1	PHE	G	43	246.263	143.532	-27.234	1.00	49.96	GS7
ATOM	40054	CD2	PHE	G	43	245.876	145.570	-26.044	1.00	49.96	GS7
ATOM	40055	CE1	PHE	G	43	245.952	144.143	-28.434	1.00	49.96	GS7
ATOM	40056	CE2	PHE	G	43	245.561	146.195	-27.241	1.00	49.96	GS7
ATOM	40057	CZ	PHE	G	43	245.599	145.473	-28.444	1.00	49.96	GS7
ATOM	40058	C	PHE	G	43	248.861	144.110	-25.235	1.00	81.43	GS7
ATOM	40059	O	PHE	G	43	249.254	144.161	-26.403	1.00	81.43	GS7
ATOM	40060	N	TYR	G	44	249.127	145.048	-24.341	1.00	65.59	GS7
ATOM	40061	CA	TYR	G	44	249.968	146.173	-24.682	1.00	65.59	GS7
ATOM	40062	CB	TYR	G	44	249.915	147.177	-23.543	1.00	60.36	GS7
ATOM	40063	CG	TYR	G	44	248.573	147.876	-23.465	1.00	60.36	GS7
ATOM	40064	CD1	TYR	G	44	247.902	148.016	-22.243	1.00	60.36	GS7
ATOM	40065	CE1	TYR	G	44	246.690	148.689	-22.166	1.00	60.36	GS7
ATOM	40066	CD2	TYR	G	44	247.987	148.429	-24.611	1.00	60.36	GS7
ATOM	40067	CE2	TYR	G	44	246.778	149.104	-24.544	1.00	60.36	GS7
ATOM	40068	CZ	TYR	G	44	246.139	149.231	-23.319	1.00	60.36	GS7
ATOM	40069	OH	TYR	G	44	244.962	149.925	-23.238	1.00	60.36	GS7
ATOM	40070	C	TYR	G	44	251.387	145.695	-24.964	1.00	65.59	GS7
ATOM	40071	O	TYR	G	44	251.956	146.011	-26.013	1.00	65.59	GS7
ATOM	40072	N	ASP	G	45	251.943	144.919	-24.036	1.00	63.39	GS7
ATOM	40073	CA	ASP	G	45	253.281	144.362	-24.199	1.00	63.39	GS7
ATOM	40074	CB	ASP	G	45	253.571	143.354	-23.089	1.00	83.52	GS7
ATOM	40075	CG	ASP	G	45	254.152	144.006	-21.858	1.00	83.52	GS7
ATOM	40076	OD1	ASP	G	45	253.724	145.136	-21.522	1.00	83.52	GS7
ATOM	40077	OD2	ASP	G	45	255.031	143.387	-21.221	1.00	83.52	GS7
ATOM	40078	C	ASP	G	45	253.378	143.675	-25.552	1.00	63.39	GS7
ATOM	40079	O	ASP	G	45	254.409	143.728	-26.213	1.00	63.39	GS7
ATOM	40080	N	ALA	G	46	252.294	143.029	-25.962	1.00	87.94	GS7
ATOM	40081	CA	ALA	G	46	252.263	142.348	-27.246	1.00	87.94	GS7
ATOM	40082	CB	ALA	G	46	251.044	141.439	-27.328	1.00	120.42	GS7
ATOM	40083	C	ALA	G	46	252.229	143.387	-28.362	1.00	87.94	GS7
ATOM	40084	O	ALA	G	46	252.886	143.228	-29.388	1.00	87.94	GS7
ATOM	40085	N	CYS	G	47	251.467	144.455	-28.159	1.00	79.97	GS7
ATOM	40086	CA	CYS	G	47	251.368	145.503	-29.165	1.00	79.97	GS7
ATOM	40087	CB	CYS	G	47	250.463	146.628	-28.685	1.00	96.09	GS7
ATOM	40088	SG	CYS	G	47	248.735	146.299	-28.972	1.00	96.09	GS7
ATOM	40089	C	CYS	G	47	252.727	146.074	-29.499	1.00	79.97	GS7
ATOM	40090	O	CYS	G	47	252.996	146.421	-30.651	1.00	79.97	GS7
ATOM	40091	N	LYS	G	48	253.579	146.177	-28.484	1.00	98.39	GS7
ATOM	40092	CA	LYS	G	48	254.915	146.710	-28.680	1.00	98.39	GS7
ATOM	40093	CB	LYS	G	48	255.446	147.318	-27.379	1.00	118.15	GS7
ATOM	40094	CG	LYS	G	48	254.568	148.466	-26.878	1.00	118.15	GS7
ATOM	40095	CD	LYS	G	48	255.291	149.415	-25.925	1.00	118.15	GS7
ATOM	40096	CE	LYS	G	48	254.370	150.561	-25.498	1.00	118.15	GS7
ATOM	40097	NZ	LYS	G	48	253.774	151.290	-26.658	1.00	118.15	GS7
ATOM	40098	C	LYS	G	48	255.835	145.620	-29.190	1.00	98.39	GS7
ATOM	40099	O	LYS	G	48	257.036	145.826	-29.328	1.00	98.39	GS7
ATOM	40100	N	ILE	G	49	255.255	144.455	-29.463	1.00	84.69	GS7
ATOM	40101	CA	ILE	G	49	255.998	143.321	-30.006	1.00	84.69	GS7
ATOM	40102	CB	ILE	G	49	255.630	141.981	-29.304	1.00	58.48	GS7
ATOM	40103	CG2	ILE	G	49	256.130	140.804	-30.134	1.00	58.48	GS7



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ATOM	40104	CG1	ILE	G	49	256.235	141.942	-27.892	1.00	58.48	GS7
ATOM	40105	CD1	ILE	G	49	256.040	140.625	-27.148	1.00	58.48	GS7
ATOM	40106	C	ILE	G	49	255.624	143.240	-31.481	1.00	84.69	GS7
ATOM	40107	O	ILE	G	49	256.416	142.803	-32.313	1.00	84.69	GS7
ATOM	40108	N	ILE	G	50	254.406	143.669	-31.798	1.00	91.98	GS7
ATOM	40109	CA	ILE	G	50	253.943	143.676	-33.176	1.00	91.98	GS7
ATOM	40110	CB	ILE	G	50	252.439	143.938	-33.260	1.00	84.00	GS7
ATOM	40111	CG2	ILE	G	50	251.942	143.670	-34.669	1.00	84.00	GS7
ATOM	40112	CG1	ILE	G	50	251.706	143.031	-32.282	1.00	84.00	GS7
ATOM	40113	CD1	ILE	G	50	250.210	143.214	-32.305	1.00	84.00	GS7
ATOM	40114	C	ILE	G	50	254.670	144.829	-33.854	1.00	91.98	GS7
ATOM	40115	O	ILE	G	50	254.607	144.995	-35.072	1.00	91.98	GS7
ATOM	40116	N	GLN	G	51	255.353	145.631	-33.040	1.00	110.90	GS7
ATOM	40117	CA	GLN	G	51	256.115	146.775	-33.522	1.00	110.90	GS7
ATOM	40118	CB	GLN	G	51	256.155	147.872	-32.460	1.00	151.91	GS7
ATOM	40119	CG	GLN	G	51	255.124	148.944	-32.682	1.00	151.91	GS7
ATOM	40120	CD	GLN	G	51	255.312	149.632	-34.016	1.00	151.91	GS7
ATOM	40121	OE1	GLN	G	51	255.369	148.984	-35.064	1.00	151.91	GS7
ATOM	40122	NE2	GLN	G	51	255.412	150.955	-33.986	1.00	151.91	GS7
ATOM	40123	C	GLN	G	51	257.533	146.373	-33.878	1.00	110.90	GS7
ATOM	40124	O	GLN	G	51	257.953	146.480	-35.031	1.00	110.90	GS7
ATOM	40125	N	GLU	G	52	258.272	145.916	-32.875	1.00	104.70	GS7
ATOM	40126	CA	GLU	G	52	259.642	145.492	-33.088	1.00	104.70	GS7
ATOM	40127	CB	GLU	G	52	260.266	144.981	-31.793	1.00	198.11	GS7
ATOM	40128	CG	GLU	G	52	260.883	146.059	-30.934	1.00	198.11	GS7
ATOM	40129	CD	GLU	G	52	261.859	145.488	-29.929	1.00	198.11	GS7
ATOM	40130	OE1	GLU	G	52	262.834	144.831	-30.359	1.00	198.11	GS7
ATOM	40131	OE2	GLU	G	52	261.653	145.692	-28.713	1.00	198.11	GS7
ATOM	40132	C	GLU	G	52	259.720	144.397	-34.130	1.00	104.70	GS7
ATOM	40133	O	GLU	G	52	260.767	144.184	-34.727	1.00	104.70	GS7
ATOM	40134	N	LYS	G	53	258.619	143.697	-34.359	1.00	97.22	GS7
ATOM	40135	CA	LYS	G	53	258.657	142.626	-35.334	1.00	97.22	GS7
ATOM	40136	CB	LYS	G	53	258.162	141.330	-34.686	1.00	114.71	GS7
ATOM	40137	CG	LYS	G	53	259.078	140.878	-33.541	1.00	114.71	GS7
ATOM	40138	CD	LYS	G	53	258.766	139.473	-33.043	1.00	114.71	GS7
ATOM	40139	CE	LYS	G	53	259.809	139.008	-32.027	1.00	114.71	GS7
ATOM	40140	NZ	LYS	G	53	259.612	137.589	-31.608	1.00	114.71	GS7
ATOM	40141	C	LYS	G	53	257.920	142.925	-36.635	1.00	97.22	GS7
ATOM	40142	O	LYS	G	53	258.059	142.194	-37.613	1.00	97.22	GS7
ATOM	40143	N	THR	G	54	257.159	144.013	-36.658	1.00	120.02	GS7
ATOM	40144	CA	THR	G	54	256.430	144.401	-37.859	1.00	120.02	GS7
ATOM	40145	CB	THR	G	54	254.935	144.063	-37.754	1.00	122.82	GS7
ATOM	40146	OG1	THR	G	54	254.769	142.646	-37.639	1.00	122.82	GS7
ATOM	40147	CG2	THR	G	54	254.198	144.557	-38.981	1.00	122.82	GS7
ATOM	40148	C	THR	G	54	256.561	145.897	-38.088	1.00	120.02	GS7
ATOM	40149	O	THR	G	54	256.538	146.684	-37.141	1.00	120.02	GS7
ATOM	40150	N	GLY	G	55	256.697	146.290	-39.347	1.00	98.83	GS7
ATOM	40151	CA	GLY	G	55	256.822	147.701	-39.643	1.00	98.83	GS7
ATOM	40152	C	GLY	G	55	255.532	148.452	-39.367	1.00	98.83	GS7
ATOM	40153	O	GLY	G	55	255.518	149.685	-39.349	1.00	98.83	GS7
ATOM	40154	N	GLN	G	56	254.452	147.709	-39.129	1.00	104.26	GS7
ATOM	40155	CA	GLN	G	56	253.134	148.297	-38.885	1.00	104.26	GS7
ATOM	40156	CB	GLN	G	56	252.062	147.350	-39.414	1.00	152.80	GS7
ATOM	40157	CG	GLN	G	56	252.444	146.638	-40.696	1.00	152.80	GS7
ATOM	40158	CD	GLN	G	56	251.495	145.502	-41.029	1.00	152.80	GS7
ATOM	40159	OE1	GLN	G	56	250.342	145.728	-41.402	1.00	152.80	GS7
ATOM	40160	NE2	GLN	G	56	251.972	144.270	-40.885	1.00	152.80	GS7
ATOM	40161	C	GLN	G	56	252.843	148.601	-37.412	1.00	104.26	GS7
ATOM	40162	O	GLN	G	56	253.463	148.011	-36.522	1.00	104.26	GS7
ATOM	40163	N	GLU	G	57	251.898	149.519	-37.167	1.00	96.84	GS7
ATOM	40164	CA	GLU	G	57	251.496	149.887	-35.803	1.00	96.84	GS7
ATOM	40165	CB	GLU	G	57	250.670	151.180	-35.761	1.00	109.66	GS7
ATOM	40166	CG	GLU	G	57	250.991	152.209	-36.824	1.00	109.66	GS7
ATOM	40167	CD	GLU	G	57	250.280	151.928	-38.134	1.00	109.66	GS7
ATOM	40168	OE1	GLU	G	57	250.582	150.895	-38.769	1.00	109.66	GS7
ATOM	40169	OE2	GLU	G	57	249.411	152.738	-38.527	1.00	109.66	GS7
ATOM	40170	C	GLU	G	57	250.613	148.757	-35.320	1.00	96.84	GS7
ATOM	40171	O	GLU	G	57	249.756	148.275	-36.060	1.00	96.84	GS7
ATOM	40172	N	PRO	G	58	250.784	148.332	-34.064	1.00	116.11	GS7
ATOM	40173	CD	PRO	G	58	251.408	149.022	-32.922	1.00	80.62	GS7
ATOM	40174	CA	PRO	G	58	249.932	147.233	-33.610	1.00	116.11	GS7
ATOM	40175	CB	PRO	G	58	250.200	147.186	-32.102	1.00	80.62	GS7
ATOM	40176	CG	PRO	G	58	250.510	148.610	-31.773	1.00	80.62	GS7
ATOM	40177	C	PRO	G	58	248.458	147.443	-33.954	1.00	116.11	GS7
ATOM	40178	O	PRO	G	58	247.866	146.650	-34.686	1.00	116.11	GS7
ATOM	40179	N	LEU	G	59	247.888	148.536	-33.459	1.00	97.99	GS7
ATOM	40180	CA	LEU	G	59	246.480	148.831	-33.673	1.00	97.99	GS7



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ATOM	40181	CB	LEU	G	59	246.210	150.319	-33.463	1.00	95.08	GS7
ATOM	40182	CG	LEU	G	59	244.715	150.647	-33.380	1.00	95.08	GS7
ATOM	40183	CD1	LEU	G	59	244.048	149.768	-32.334	1.00	95.08	GS7
ATOM	40184	CD2	LEU	G	59	244.529	152.113	-33.034	1.00	95.08	GS7
ATOM	40185	C	LEU	G	59	245.870	148.392	-34.999	1.00	97.99	GS7
ATOM	40186	O	LEU	G	59	244.715	147.968	-35.023	1.00	97.99	GS7
ATOM	40187	N	LYS	G	60	246.610	148.488	-36.101	1.00	88.47	GS7
ATOM	40188	CA	LYS	G	60	246.042	148.073	-37.383	1.00	88.47	GS7
ATOM	40189	CB	LYS	G	60	246.598	148.892	-38.546	1.00144.82		GS7
ATOM	40190	CG	LYS	G	60	245.948	148.516	-39.871	1.00144.82		GS7
ATOM	40191	CD	LYS	G	60	246.589	149.215	-41.051	1.00144.82		GS7
ATOM	40192	CE	LYS	G	60	245.974	148.738	-42.359	1.00144.82		GS7
ATOM	40193	NZ	LYS	G	60	246.595	149.392	-43.548	1.00144.82		GS7
ATOM	40194	C	LYS	G	60	246.294	146.600	-37.652	1.00	88.47	GS7
ATOM	40195	O	LYS	G	60	245.488	145.933	-38.301	1.00	88.47	GS7
ATOM	40196	N	VAL	G	61	247.424	146.097	-37.172	1.00105.86		GS7
ATOM	40197	CA	VAL	G	61	247.743	144.689	-37.348	1.00105.86		GS7
ATOM	40198	CB	VAL	G	61	249.086	144.341	-36.692	1.00	94.99	GS7
ATOM	40199	CG1	VAL	G	61	249.305	142.838	-36.715	1.00	94.99	GS7
ATOM	40200	CG2	VAL	G	61	250.204	145.049	-37.414	1.00	94.99	GS7
ATOM	40201	C	VAL	G	61	246.637	143.929	-36.628	1.00105.86		GS7
ATOM	40202	O	VAL	G	61	246.172	142.877	-37.077	1.00105.86		GS7
ATOM	40203	N	PHE	G	62	246.229	144.500	-35.498	1.00104.24		GS7
ATOM	40204	CA	PHE	G	62	245.181	143.952	-34.649	1.00104.24		GS7
ATOM	40205	CB	PHE	G	62	245.008	144.854	-33.424	1.00	80.51	GS7
ATOM	40206	CG	PHE	G	62	243.816	144.524	-32.584	1.00	80.51	GS7
ATOM	40207	CD1	PHE	G	62	243.732	143.310	-31.920	1.00	80.51	GS7
ATOM	40208	CD2	PHE	G	62	242.773	145.431	-32.460	1.00	80.51	GS7
ATOM	40209	CE1	PHE	G	62	242.623	143.004	-31.144	1.00	80.51	GS7
ATOM	40210	CE2	PHE	G	62	241.663	145.136	-31.688	1.00	80.51	GS7
ATOM	40211	CZ	PHE	G	62	241.585	143.919	-31.028	1.00	80.51	GS7
ATOM	40212	C	PHE	G	62	243.874	143.863	-35.419	1.00104.24		GS7
ATOM	40213	O	PHE	G	62	243.394	142.774	-35.720	1.00104.24		GS7
ATOM	40214	N	LYS	G	63	243.312	145.020	-35.746	1.00	84.09	GS7
ATOM	40215	CA	LYS	G	63	242.053	145.080	-36.471	1.00	84.09	GS7
ATOM	40216	CB	LYS	G	63	241.685	146.532	-36.747	1.00	96.43	GS7
ATOM	40217	CG	LYS	G	63	241.633	147.370	-35.489	1.00	96.43	GS7
ATOM	40218	CD	LYS	G	63	241.033	148.723	-35.772	1.00	96.43	GS7
ATOM	40219	CE	LYS	G	63	240.940	149.547	-34.512	1.00	96.43	GS7
ATOM	40220	NZ	LYS	G	63	240.224	150.812	-34.803	1.00	96.43	GS7
ATOM	40221	C	LYS	G	63	242.053	144.290	-37.774	1.00	84.09	GS7
ATOM	40222	O	LYS	G	63	241.011	143.796	-38.201	1.00	84.09	GS7
ATOM	40223	N	GLN	G	64	243.210	144.171	-38.413	1.00	86.56	GS7
ATOM	40224	CA	GLN	G	64	243.280	143.411	-39.653	1.00	86.56	GS7
ATOM	40225	CB	GLN	G	64	244.669	143.543	-40.288	1.00148.88		GS7
ATOM	40226	CG	GLN	G	64	244.768	142.977	-41.701	1.00148.88		GS7
ATOM	40227	CD	GLN	G	64	243.924	143.749	-42.698	1.00148.88		GS7
ATOM	40228	OE1	GLN	G	64	244.177	144.925	-42.961	1.00148.88		GS7
ATOM	40229	NE2	GLN	G	64	242.913	143.091	-43.256	1.00148.88		GS7
ATOM	40230	C	GLN	G	64	243.008	141.958	-39.270	1.00	86.56	GS7
ATOM	40231	O	GLN	G	64	242.333	141.218	-39.991	1.00	86.56	GS7
ATOM	40232	N	ALA	G	65	243.536	141.570	-38.113	1.00	94.43	GS7
ATOM	40233	CA	ALA	G	65	243.363	140.222	-37.590	1.00	94.43	GS7
ATOM	40234	CB	ALA	G	65	244.077	140.100	-36.246	1.00	80.51	GS7
ATOM	40235	C	ALA	G	65	241.870	139.936	-37.428	1.00	94.43	GS7
ATOM	40236	O	ALA	G	65	241.292	139.132	-38.161	1.00	94.43	GS7
ATOM	40237	N	VAL	G	66	241.263	140.609	-36.456	1.00	96.36	GS7
ATOM	40238	CA	VAL	G	66	239.838	140.486	-36.171	1.00	96.36	GS7
ATOM	40239	CB	VAL	G	66	239.298	141.768	-35.521	1.00	58.99	GS7
ATOM	40240	CG1	VAL	G	66	237.786	141.722	-35.474	1.00	58.99	GS7
ATOM	40241	CG2	VAL	G	66	239.889	141.934	-34.124	1.00	58.99	GS7
ATOM	40242	C	VAL	G	66	239.021	140.258	-37.430	1.00	96.36	GS7
ATOM	40243	O	VAL	G	66	238.249	139.300	-37.529	1.00	96.36	GS7
ATOM	40244	N	GLU	G	67	239.192	141.166	-38.381	1.00	86.30	GS7
ATOM	40245	CA	GLU	G	67	238.469	141.105	-39.634	1.00	86.30	GS7
ATOM	40246	CB	GLU	G	67	238.958	142.208	-40.567	1.00134.48		GS7
ATOM	40247	CG	GLU	G	67	238.257	142.205	-41.910	1.00134.48		GS7
ATOM	40248	CD	GLU	G	67	236.767	142.460	-41.787	1.00134.48		GS7
ATOM	40249	OE1	GLU	G	67	236.052	142.280	-42.800	1.00134.48		GS7
ATOM	40250	OE2	GLU	G	67	236.317	142.847	-40.683	1.00134.48		GS7
ATOM	40251	C	GLU	G	67	238.570	139.758	-40.350	1.00	86.30	GS7
ATOM	40252	O	GLU	G	67	237.623	139.331	-41.015	1.00	86.30	GS7
ATOM	40253	N	ASN	G	68	239.706	139.086	-40.216	1.00	99.52	GS7
ATOM	40254	CA	ASN	G	68	239.889	137.808	-40.891	1.00	99.52	GS7
ATOM	40255	CB	ASN	G	68	241.362	137.629	-41.261	1.00	82.41	GS7
ATOM	40256	CG	ASN	G	68	241.878	138.746	-42.140	1.00	82.41	GS7
ATOM	40257	OD1	ASN	G	68	241.309	139.036	-43.189	1.00	82.41	GS7



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ATOM	40258	ND2	ASN	G	68	242.963	139.380	-41.716	1.00	82.41	GS7
ATOM	40259	C	ASN	G	68	239.404	136.593	-40.098	1.00	99.52	GS7
ATOM	40260	O	ASN	G	68	239.116	135.543	-40.680	1.00	99.52	GS7
ATOM	40261	N	VAL	G	69	239.309	136.739	-38.778	1.00	77.49	GS7
ATOM	40262	CA	VAL	G	69	238.869	135.651	-37.905	1.00	77.49	GS7
ATOM	40263	CB	VAL	G	69	239.565	135.729	-36.535	1.00	79.18	GS7
ATOM	40264	CG1	VAL	G	69	239.531	134.380	-35.852	1.00	79.18	GS7
ATOM	40265	CG2	VAL	G	69	240.988	136.215	-36.708	1.00	79.18	GS7
ATOM	40266	C	VAL	G	69	237.368	135.731	-37.676	1.00	77.49	GS7
ATOM	40267	O	VAL	G	69	236.834	135.062	-36.802	1.00	77.49	GS7
ATOM	40268	N	LYS	G	70	236.694	136.563	-38.459	1.00	69.48	GS7
ATOM	40269	CA	LYS	G	70	235.249	136.730	-38.342	1.00	69.48	GS7
ATOM	40270	CB	LYS	G	70	234.831	138.165	-38.663	1.00	59.14	GS7
ATOM	40271	CG	LYS	G	70	235.067	139.213	-37.600	1.00	59.14	GS7
ATOM	40272	CD	LYS	G	70	234.267	140.435	-38.014	1.00	59.14	GS7
ATOM	40273	CE	LYS	G	70	234.549	141.647	-37.173	1.00	59.14	GS7
ATOM	40274	NZ	LYS	G	70	233.755	142.796	-37.699	1.00	59.14	GS7
ATOM	40275	C	LYS	G	70	234.461	135.823	-39.277	1.00	69.48	GS7
ATOM	40276	O	LYS	G	70	234.422	136.048	-40.482	1.00	69.48	GS7
ATOM	40277	N	PRO	G	71	233.804	134.800	-38.734	1.00	70.30	GS7
ATOM	40278	CD	PRO	G	71	233.484	134.562	-37.319	1.00	55.45	GS7
ATOM	40279	CA	PRO	G	71	233.027	133.915	-39.603	1.00	70.30	GS7
ATOM	40280	CB	PRO	G	71	232.492	132.883	-38.628	1.00	55.45	GS7
ATOM	40281	CG	PRO	G	71	232.229	133.724	-37.411	1.00	55.45	GS7
ATOM	40282	C	PRO	G	71	231.912	134.767	-40.198	1.00	70.30	GS7
ATOM	40283	O	PRO	G	71	231.499	135.749	-39.582	1.00	70.30	GS7
ATOM	40284	N	ARG	G	72	231.430	134.425	-41.384	1.00	79.97	GS7
ATOM	40285	CA	ARG	G	72	230.363	135.217	-41.977	1.00	79.97	GS7
ATOM	40286	CB	ARG	G	72	230.787	135.762	-43.341	1.00	138.90	GS7
ATOM	40287	CG	ARG	G	72	231.675	134.835	-44.132	1.00	138.90	GS7
ATOM	40288	CD	ARG	G	72	232.002	135.424	-45.489	1.00	138.90	GS7
ATOM	40289	NE	ARG	G	72	233.150	134.768	-46.108	1.00	138.90	GS7
ATOM	40290	CZ	ARG	G	72	234.403	134.889	-45.675	1.00	138.90	GS7
ATOM	40291	NH1	ARG	G	72	234.676	135.644	-44.618	1.00	138.90	GS7
ATOM	40292	NH2	ARG	G	72	235.386	134.254	-46.300	1.00	138.90	GS7
ATOM	40293	C	ARG	G	72	229.099	134.389	-42.098	1.00	79.97	GS7
ATOM	40294	O	ARG	G	72	228.016	134.913	-42.371	1.00	79.97	GS7
ATOM	40295	N	MET	G	73	229.254	133.088	-41.881	1.00	83.71	GS7
ATOM	40296	CA	MET	G	73	228.151	132.136	-41.929	1.00	83.71	GS7
ATOM	40297	CB	MET	G	73	228.060	131.472	-43.301	1.00	91.99	GS7
ATOM	40298	CG	MET	G	73	227.555	132.375	-44.397	1.00	91.99	GS7
ATOM	40299	SD	MET	G	73	225.780	132.535	-44.340	1.00	91.99	GS7
ATOM	40300	CE	MET	G	73	225.370	132.471	-46.089	1.00	91.99	GS7
ATOM	40301	C	MET	G	73	228.495	131.091	-40.890	1.00	83.71	GS7
ATOM	40302	O	MET	G	73	229.639	131.022	-40.439	1.00	83.71	GS7
ATOM	40303	N	GLU	G	74	227.520	130.281	-40.501	1.00	67.01	GS7
ATOM	40304	CA	GLU	G	74	227.777	129.251	-39.513	1.00	67.01	GS7
ATOM	40305	CB	GLU	G	74	227.997	129.867	-38.130	1.00	73.00	GS7
ATOM	40306	CG	GLU	G	74	226.730	130.277	-37.396	1.00	73.00	GS7
ATOM	40307	CD	GLU	G	74	227.016	131.138	-36.166	1.00	73.00	GS7
ATOM	40308	OE1	GLU	G	74	227.886	130.759	-35.346	1.00	73.00	GS7
ATOM	40309	OE2	GLU	G	74	226.364	132.198	-36.015	1.00	73.00	GS7
ATOM	40310	C	GLU	G	74	226.605	128.316	-39.460	1.00	67.01	GS7
ATOM	40311	O	GLU	G	74	225.545	128.594	-40.009	1.00	67.01	GS7
ATOM	40312	N	VAL	G	75	226.800	127.202	-38.782	1.00	79.02	GS7
ATOM	40313	CA	VAL	G	75	225.753	126.219	-38.655	1.00	79.02	GS7
ATOM	40314	CB	VAL	G	75	226.327	124.830	-38.851	1.00	71.17	GS7
ATOM	40315	CG1	VAL	G	75	225.230	123.818	-38.819	1.00	71.17	GS7
ATOM	40316	CG2	VAL	G	75	227.069	124.772	-40.158	1.00	71.17	GS7
ATOM	40317	C	VAL	G	75	225.131	126.310	-37.268	1.00	79.02	GS7
ATOM	40318	O	VAL	G	75	225.820	126.631	-36.305	1.00	79.02	GS7
ATOM	40319	N	ARG	G	76	223.828	126.048	-37.174	1.00	76.49	GS7
ATOM	40320	CA	ARG	G	76	223.104	126.068	-35.898	1.00	76.49	GS7
ATOM	40321	CB	ARG	G	76	222.320	127.374	-35.729	1.00	102.68	GS7
ATOM	40322	CG	ARG	G	76	223.158	128.631	-35.910	1.00	102.68	GS7
ATOM	40323	CD	ARG	G	76	222.368	129.904	-35.599	1.00	102.68	GS7
ATOM	40324	NE	ARG	G	76	222.419	130.273	-34.183	1.00	102.68	GS7
ATOM	40325	CZ	ARG	G	76	221.744	131.285	-33.640	1.00	102.68	GS7
ATOM	40326	NH1	ARG	G	76	220.952	132.041	-34.394	1.00	102.68	GS7
ATOM	40327	NH2	ARG	G	76	221.862	131.544	-32.341	1.00	102.68	GS7
ATOM	40328	C	ARG	G	76	222.142	124.887	-35.946	1.00	76.49	GS7
ATOM	40329	O	ARG	G	76	221.395	124.727	-36.913	1.00	76.49	GS7
ATOM	40330	N	SER	G	77	222.163	124.052	-34.916	1.00	100.83	GS7
ATOM	40331	CA	SER	G	77	221.292	122.882	-34.901	1.00	100.83	GS7
ATOM	40332	CB	SER	G	77	221.476	122.102	-33.593	1.00	137.69	GS7
ATOM	40333	OG	SER	G	77	220.885	120.814	-33.676	1.00	137.69	GS7
ATOM	40334	C	SER	G	77	219.825	123.270	-35.079	1.00	100.83	GS7



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ATOM	40335	O	SER	G	77	219.488	124.448	-35.111	1.00100.83	GS7
ATOM	40336	N	ARG	G	78	218.961	122.270	-35.211	1.00119.50	GS7
ATOM	40337	CA	ARG	G	78	217.526	122.495	-35.367	1.00119.50	GS7
ATOM	40338	CB	ARG	G	78	217.229	123.446	-36.530	1.00136.56	GS7
ATOM	40339	CG	ARG	G	78	215.738	123.546	-36.835	1.00136.56	GS7
ATOM	40340	CD	ARG	G	78	215.417	124.574	-37.908	1.00136.56	GS7
ATOM	40341	NE	ARG	G	78	213.987	124.596	-38.220	1.00136.56	GS7
ATOM	40342	CZ	ARG	G	78	213.409	125.460	-39.053	1.00136.56	GS7
ATOM	40343	NH1	ARG	G	78	214.134	126.388	-39.668	1.00136.56	GS7
ATOM	40344	NH2	ARG	G	78	212.102	125.392	-39.279	1.00136.56	GS7
ATOM	40345	C	ARG	G	78	216.803	121.182	-35.609	1.00119.50	GS7
ATOM	40346	O	ARG	G	78	217.149	120.434	-36.522	1.00119.50	GS7
ATOM	40347	N	ARG	G	79	215.798	120.901	-34.789	1.00 71.16	GS7
ATOM	40348	CA	ARG	G	79	215.034	119.673	-34.941	1.00 71.16	GS7
ATOM	40349	CB	ARG	G	79	214.289	119.331	-33.653	1.00189.69	GS7
ATOM	40350	CG	ARG	G	79	215.206	119.049	-32.499	1.00189.69	GS7
ATOM	40351	CD	ARG	G	79	214.516	118.247	-31.427	1.00189.69	GS7
ATOM	40352	NE	ARG	G	79	215.462	117.866	-30.386	1.00189.69	GS7
ATOM	40353	CZ	ARG	G	79	215.171	117.067	-29.368	1.00189.69	GS7
ATOM	40354	NH1	ARG	G	79	213.953	116.560	-29.253	1.00189.69	GS7
ATOM	40355	NH2	ARG	G	79	216.098	116.775	-28.466	1.00189.69	GS7
ATOM	40356	C	ARG	G	79	214.036	119.796	-36.080	1.00 71.16	GS7
ATOM	40357	O	ARG	G	79	213.260	120.749	-36.144	1.00 71.16	GS7
ATOM	40358	N	VAL	G	80	214.076	118.825	-36.984	1.00157.25	GS7
ATOM	40359	CA	VAL	G	80	213.177	118.791	-38.125	1.00157.25	GS7
ATOM	40360	CB	VAL	G	80	213.855	119.336	-39.399	1.00 86.49	GS7
ATOM	40361	CG1	VAL	G	80	212.845	119.431	-40.520	1.00 86.49	GS7
ATOM	40362	CG2	VAL	G	80	214.463	120.699	-39.129	1.00 86.49	GS7
ATOM	40363	C	VAL	G	80	212.808	117.331	-38.339	1.00157.25	GS7
ATOM	40364	O	VAL	G	80	213.588	116.557	-38.896	1.00157.25	GS7
ATOM	40365	N	GLY	G	81	211.621	116.955	-37.878	1.00173.34	GS7
ATOM	40366	CA	GLY	G	81	211.185	115.580	-38.019	1.00173.34	GS7
ATOM	40367	C	GLY	G	81	211.870	114.695	-36.995	1.00173.34	GS7
ATOM	40368	O	GLY	G	81	211.732	113.469	-37.024	1.00173.34	GS7
ATOM	40369	N	GLY	G	82	212.608	115.324	-36.084	1.00159.88	GS7
ATOM	40370	CA	GLY	G	82	213.317	114.586	-35.055	1.00159.88	GS7
ATOM	40371	C	GLY	G	82	214.814	114.778	-35.179	1.00159.88	GS7
ATOM	40372	O	GLY	G	82	215.462	115.280	-34.261	1.00159.88	GS7
ATOM	40373	N	ALA	G	83	215.362	114.376	-36.320	1.00134.31	GS7
ATOM	40374	CA	ALA	G	83	216.789	114.513	-36.574	1.00134.31	GS7
ATOM	40375	CB	ALA	G	83	217.135	113.897	-37.922	1.00162.15	GS7
ATOM	40376	C	ALA	G	83	217.169	115.991	-36.552	1.00134.31	GS7
ATOM	40377	O	ALA	G	83	216.449	116.832	-37.093	1.00134.31	GS7
ATOM	40378	N	ASN	G	84	218.303	116.301	-35.927	1.00 98.65	GS7
ATOM	40379	CA	ASN	G	84	218.769	117.681	-35.820	1.00 98.65	GS7
ATOM	40380	CB	ASN	G	84	219.591	117.845	-34.547	1.00150.62	GS7
ATOM	40381	CG	ASN	G	84	218.826	117.410	-33.317	1.00150.62	GS7
ATOM	40382	OD1	ASN	G	84	217.730	117.905	-33.051	1.00150.62	GS7
ATOM	40383	ND2	ASN	G	84	219.393	116.476	-32.564	1.00150.62	GS7
ATOM	40384	C	ASN	G	84	219.581	118.111	-37.028	1.00 98.65	GS7
ATOM	40385	O	ASN	G	84	220.727	117.714	-37.189	1.00 98.65	GS7
ATOM	40386	N	TYR	G	85	218.973	118.947	-37.861	1.00 74.90	GS7
ATOM	40387	CA	TYR	G	85	219.597	119.425	-39.083	1.00 74.90	GS7
ATOM	40388	CB	TYR	G	85	218.513	119.644	-40.141	1.00116.01	GS7
ATOM	40389	CG	TYR	G	85	217.921	118.358	-40.666	1.00116.01	GS7
ATOM	40390	CD1	TYR	G	85	216.922	118.371	-41.637	1.00116.01	GS7
ATOM	40391	CE1	TYR	G	85	216.409	117.187	-42.160	1.00116.01	GS7
ATOM	40392	CD2	TYR	G	85	218.393	117.123	-40.224	1.00116.01	GS7
ATOM	40393	CE2	TYR	G	85	217.890	115.934	-40.737	1.00116.01	GS7
ATOM	40394	CZ	TYR	G	85	216.900	115.970	-41.706	1.00116.01	GS7
ATOM	40395	OH	TYR	G	85	216.413	114.786	-42.221	1.00116.01	GS7
ATOM	40396	C	TYR	G	85	220.483	120.668	-38.999	1.00 74.90	GS7
ATOM	40397	O	TYR	G	85	220.009	121.790	-39.177	1.00 74.90	GS7
ATOM	40398	N	GLN	G	86	221.776	120.459	-38.751	1.00105.27	GS7
ATOM	40399	CA	GLN	G	86	222.741	121.554	-38.678	1.00105.27	GS7
ATOM	40400	CB	GLN	G	86	224.166	121.018	-38.823	1.00102.37	GS7
ATOM	40401	CG	GLN	G	86	224.617	120.044	-37.751	1.00102.37	GS7
ATOM	40402	CD	GLN	G	86	224.500	120.599	-36.343	1.00102.37	GS7
ATOM	40403	OE1	GLN	G	86	223.424	120.574	-35.739	1.00102.37	GS7
ATOM	40404	NE2	GLN	G	86	225.610	121.109	-35.814	1.00102.37	GS7
ATOM	40405	C	GLN	G	86	222.459	122.521	-39.825	1.00105.27	GS7
ATOM	40406	O	GLN	G	86	222.803	122.249	-40.973	1.00105.27	GS7
ATOM	40407	N	VAL	G	87	221.833	123.649	-39.516	1.00 72.35	GS7
ATOM	40408	CA	VAL	G	87	221.498	124.628	-40.542	1.00 72.35	GS7
ATOM	40409	CB	VAL	G	87	220.064	125.157	-40.328	1.00 65.76	GS7
ATOM	40410	CG1	VAL	G	87	219.802	126.380	-41.200	1.00 65.76	GS7
ATOM	40411	CG2	VAL	G	87	219.075	124.065	-40.659	1.00 65.76	GS7



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ATOM	40412	C	VAL	G	87	222.460	125.810	-40.611	1.00	72.35	GS7
ATOM	40413	O	VAL	G	87	223.030	126.224	-39.605	1.00	72.35	GS7
ATOM	40414	N	PRO	G	88	222.659	126.366	-41.814	1.00	77.05	GS7
ATOM	40415	CD	PRO	G	88	222.207	125.879	-43.131	1.00	46.06	GS7
ATOM	40416	CA	PRO	G	88	223.557	127.506	-41.981	1.00	77.05	GS7
ATOM	40417	CB	PRO	G	88	223.976	127.387	-43.431	1.00	46.06	GS7
ATOM	40418	CG	PRO	G	88	222.693	126.984	-44.067	1.00	46.06	GS7
ATOM	40419	C	PRO	G	88	222.780	128.783	-41.760	1.00	77.05	GS7
ATOM	40420	O	PRO	G	88	221.567	128.744	-41.574	1.00	77.05	GS7
ATOM	40421	N	MET	G	89	223.490	129.904	-41.792	1.00	76.23	GS7
ATOM	40422	CA	MET	G	89	222.898	131.229	-41.652	1.00	76.23	GS7
ATOM	40423	CB	MET	G	89	221.732	131.236	-40.655	1.00	105.02	GS7
ATOM	40424	CG	MET	G	89	222.003	130.605	-39.313	1.00	105.02	GS7
ATOM	40425	SD	MET	G	89	220.427	130.329	-38.482	1.00	105.02	GS7
ATOM	40426	CE	MET	G	89	220.164	131.938	-37.740	1.00	105.02	GS7
ATOM	40427	C	MET	G	89	223.921	132.278	-41.275	1.00	76.23	GS7
ATOM	40428	O	MET	G	89	224.934	131.983	-40.637	1.00	76.23	GS7
ATOM	40429	N	GLU	G	90	223.644	133.507	-41.702	1.00	67.41	GS7
ATOM	40430	CA	GLU	G	90	224.521	134.637	-41.458	1.00	67.41	GS7
ATOM	40431	CB	GLU	G	90	223.876	135.916	-41.977	1.00	167.71	GS7
ATOM	40432	CG	GLU	G	90	223.390	135.814	-43.400	1.00	167.71	GS7
ATOM	40433	CD	GLU	G	90	222.557	137.006	-43.802	1.00	167.71	GS7
ATOM	40434	OE1	GLU	G	90	222.119	137.052	-44.970	1.00	167.71	GS7
ATOM	40435	OE2	GLU	G	90	222.340	137.896	-42.949	1.00	167.71	GS7
ATOM	40436	C	GLU	G	90	224.817	134.799	-39.985	1.00	67.41	GS7
ATOM	40437	O	GLU	G	90	224.060	134.333	-39.126	1.00	67.41	GS7
ATOM	40438	N	VAL	G	91	225.932	135.451	-39.691	1.00	63.18	GS7
ATOM	40439	CA	VAL	G	91	226.292	135.701	-38.311	1.00	63.18	GS7
ATOM	40440	CB	VAL	G	91	227.758	135.364	-38.045	1.00	63.58	GS7
ATOM	40441	CG1	VAL	G	91	228.079	135.566	-36.570	1.00	63.58	GS7
ATOM	40442	CG2	VAL	G	91	228.034	133.932	-38.471	1.00	63.58	GS7
ATOM	40443	C	VAL	G	91	226.048	137.187	-38.098	1.00	63.18	GS7
ATOM	40444	O	VAL	G	91	226.526	138.020	-38.868	1.00	63.18	GS7
ATOM	40445	N	SER	G	92	225.273	137.515	-37.073	1.00	78.22	GS7
ATOM	40446	CA	SER	G	92	224.954	138.903	-36.787	1.00	78.22	GS7
ATOM	40447	CB	SER	G	92	224.255	139.038	-35.439	1.00	131.83	GS7
ATOM	40448	OG	SER	G	92	225.215	139.197	-34.408	1.00	131.83	GS7
ATOM	40449	C	SER	G	92	226.234	139.695	-36.723	1.00	78.22	GS7
ATOM	40450	O	SER	G	92	227.273	139.182	-36.297	1.00	78.22	GS7
ATOM	40451	N	PRO	G	93	226.173	140.968	-37.126	1.00	61.87	GS7
ATOM	40452	CD	PRO	G	93	224.966	141.806	-37.229	1.00	124.86	GS7
ATOM	40453	CA	PRO	G	93	227.378	141.792	-37.082	1.00	61.87	GS7
ATOM	40454	CB	PRO	G	93	226.839	143.196	-37.330	1.00	124.86	GS7
ATOM	40455	CG	PRO	G	93	225.464	143.134	-36.714	1.00	124.86	GS7
ATOM	40456	C	PRO	G	93	227.976	141.641	-35.692	1.00	61.87	GS7
ATOM	40457	O	PRO	G	93	229.163	141.361	-35.529	1.00	61.87	GS7
ATOM	40458	N	ARG	G	94	227.121	141.805	-34.692	1.00	58.83	GS7
ATOM	40459	CA	ARG	G	94	227.529	141.696	-33.313	1.00	58.83	GS7
ATOM	40460	CB	ARG	G	94	226.301	141.862	-32.415	1.00	63.81	GS7
ATOM	40461	CG	ARG	G	94	226.430	141.293	-31.005	1.00	63.81	GS7
ATOM	40462	CD	ARG	G	94	227.398	142.057	-30.117	1.00	63.81	GS7
ATOM	40463	NE	ARG	G	94	227.463	141.452	-28.783	1.00	63.81	GS7
ATOM	40464	CZ	ARG	G	94	228.221	141.902	-27.785	1.00	63.81	GS7
ATOM	40465	NH1	ARG	G	94	228.988	142.967	-27.960	1.00	63.81	GS7
ATOM	40466	NH2	ARG	G	94	228.217	141.290	-26.609	1.00	63.81	GS7
ATOM	40467	C	ARG	G	94	228.241	140.368	-33.051	1.00	58.83	GS7
ATOM	40468	O	ARG	G	94	229.419	140.354	-32.687	1.00	58.83	GS7
ATOM	40469	N	ARG	G	95	227.549	139.253	-33.259	1.00	64.86	GS7
ATOM	40470	CA	ARG	G	95	228.151	137.944	-32.999	1.00	64.86	GS7
ATOM	40471	CB	ARG	G	95	227.185	136.816	-33.394	1.00	77.21	GS7
ATOM	40472	CG	ARG	G	95	227.658	135.418	-32.999	1.00	77.21	GS7
ATOM	40473	CD	ARG	G	95	226.632	134.339	-33.318	1.00	77.21	GS7
ATOM	40474	NE	ARG	G	95	227.168	133.012	-33.031	1.00	77.21	GS7
ATOM	40475	CZ	ARG	G	95	227.486	132.578	-31.812	1.00	77.21	GS7
ATOM	40476	NH1	ARG	G	95	227.316	133.360	-30.747	1.00	77.21	GS7
ATOM	40477	NH2	ARG	G	95	227.998	131.364	-31.653	1.00	77.21	GS7
ATOM	40478	C	ARG	G	95	229.486	137.748	-33.712	1.00	64.86	GS7
ATOM	40479	O	ARG	G	95	230.442	137.233	-33.124	1.00	64.86	GS7
ATOM	40480	N	GLN	G	96	229.545	138.151	-34.978	1.00	69.41	GS7
ATOM	40481	CA	GLN	G	96	230.768	138.023	-35.757	1.00	69.41	GS7
ATOM	40482	CB	GLN	G	96	230.682	138.873	-37.012	1.00	97.33	GS7
ATOM	40483	CG	GLN	G	96	230.441	138.062	-38.256	1.00	97.33	GS7
ATOM	40484	CD	GLN	G	96	230.221	138.931	-39.467	1.00	97.33	GS7
ATOM	40485	OE1	GLN	G	96	230.989	139.860	-39.725	1.00	97.33	GS7
ATOM	40486	NE2	GLN	G	96	229.172	138.634	-40.227	1.00	97.33	GS7
ATOM	40487	C	GLN	G	96	231.950	138.464	-34.920	1.00	69.41	GS7
ATOM	40488	O	GLN	G	96	232.868	137.689	-34.668	1.00	69.41	GS7



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ATOM	40489	N	GLN	G	97	231.923	139.714	-34.483	1.00	58.52	GS7
ATOM	40490	CA	GLN	G	97	232.997	140.226	-33.651	1.00	58.52	GS7
ATOM	40491	CB	GLN	G	97	232.688	141.649	-33.184	1.00	96.70	GS7
ATOM	40492	CG	GLN	G	97	233.676	142.156	-32.145	1.00	96.70	GS7
ATOM	40493	CD	GLN	G	97	233.251	143.461	-31.517	1.00	96.70	GS7
ATOM	40494	OE1	GLN	G	97	233.078	144.468	-32.208	1.00	96.70	GS7
ATOM	40495	NE2	GLN	G	97	233.082	143.456	-30.195	1.00	96.70	GS7
ATOM	40496	C	GLN	G	97	233.191	139.337	-32.423	1.00	58.52	GS7
ATOM	40497	O	GLN	G	97	234.303	138.880	-32.150	1.00	58.52	GS7
ATOM	40498	N	SER	G	98	232.108	139.098	-31.688	1.00	71.68	GS7
ATOM	40499	CA	SER	G	98	232.164	138.282	-30.478	1.00	71.68	GS7
ATOM	40500	CB	SER	G	98	230.757	137.848	-30.065	1.00	88.79	GS7
ATOM	40501	OG	SER	G	98	229.988	138.940	-29.602	1.00	88.79	GS7
ATOM	40502	C	SER	G	98	233.034	137.042	-30.632	1.00	71.68	GS7
ATOM	40503	O	SER	G	98	233.907	136.766	-29.797	1.00	71.68	GS7
ATOM	40504	N	LEU	G	99	232.777	136.298	-31.705	1.00	60.54	GS7
ATOM	40505	CA	LEU	G	99	233.500	135.066	-31.999	1.00	60.54	GS7
ATOM	40506	CB	LEU	G	99	232.872	134.382	-33.206	1.00	70.80	GS7
ATOM	40507	CG	LEU	G	99	231.407	134.040	-32.963	1.00	70.80	GS7
ATOM	40508	CD1	LEU	G	99	230.641	134.179	-34.256	1.00	70.80	GS7
ATOM	40509	CD2	LEU	G	99	231.293	132.639	-32.378	1.00	70.80	GS7
ATOM	40510	C	LEU	G	99	234.965	135.320	-32.270	1.00	60.54	GS7
ATOM	40511	O	LEU	G	99	235.832	134.727	-31.629	1.00	60.54	GS7
ATOM	40512	N	ALA	G	100	235.230	136.202	-33.229	1.00	75.74	GS7
ATOM	40513	CA	ALA	G	100	236.596	136.549	-33.606	1.00	75.74	GS7
ATOM	40514	CB	ALA	G	100	236.602	137.847	-34.415	1.00	103.87	GS7
ATOM	40515	C	ALA	G	100	237.480	136.697	-32.371	1.00	75.74	GS7
ATOM	40516	O	ALA	G	100	238.365	135.867	-32.116	1.00	75.74	GS7
ATOM	40517	N	LEU	G	101	237.228	137.759	-31.613	1.00	47.84	GS7
ATOM	40518	CA	LEU	G	101	237.975	138.034	-30.398	1.00	47.84	GS7
ATOM	40519	CB	LEU	G	101	237.230	139.083	-29.584	1.00	70.04	GS7
ATOM	40520	CG	LEU	G	101	237.094	140.385	-30.363	1.00	70.04	GS7
ATOM	40521	CD1	LEU	G	101	236.270	141.392	-29.582	1.00	70.04	GS7
ATOM	40522	CD2	LEU	G	101	238.491	140.923	-30.640	1.00	70.04	GS7
ATOM	40523	C	LEU	G	101	238.194	136.770	-29.560	1.00	47.84	GS7
ATOM	40524	O	LEU	G	101	239.323	136.457	-29.151	1.00	47.84	GS7
ATOM	40525	N	ARG	G	102	237.113	136.041	-29.302	1.00	63.87	GS7
ATOM	40526	CA	ARG	G	102	237.226	134.827	-28.521	1.00	63.87	GS7
ATOM	40527	CB	ARG	G	102	235.857	134.170	-28.369	1.00	64.80	GS7
ATOM	40528	CG	ARG	G	102	235.865	132.942	-27.462	1.00	64.80	GS7
ATOM	40529	CD	ARG	G	102	234.493	132.309	-27.413	1.00	64.80	GS7
ATOM	40530	NE	ARG	G	102	233.500	133.346	-27.186	1.00	64.80	GS7
ATOM	40531	CZ	ARG	G	102	232.221	133.243	-27.513	1.00	64.80	GS7
ATOM	40532	NH1	ARG	G	102	231.780	132.133	-28.083	1.00	64.80	GS7
ATOM	40533	NH2	ARG	G	102	231.394	134.258	-27.285	1.00	64.80	GS7
ATOM	40534	C	ARG	G	102	238.201	133.871	-29.216	1.00	63.87	GS7
ATOM	40535	O	ARG	G	102	239.155	133.381	-28.606	1.00	63.87	GS7
ATOM	40536	N	TRP	G	103	237.978	133.616	-30.500	1.00	64.58	GS7
ATOM	40537	CA	TRP	G	103	238.855	132.712	-31.215	1.00	64.58	GS7
ATOM	40538	CB	TRP	G	103	238.410	132.559	-32.663	1.00	75.21	GS7
ATOM	40539	CG	TRP	G	103	237.185	131.721	-32.789	1.00	75.21	GS7
ATOM	40540	CD2	TRP	G	103	236.200	131.783	-33.829	1.00	75.21	GS7
ATOM	40541	CE2	TRP	G	103	235.217	130.817	-33.528	1.00	75.21	GS7
ATOM	40542	CE3	TRP	G	103	236.053	132.559	-34.986	1.00	75.21	GS7
ATOM	40543	CD1	TRP	G	103	236.775	130.745	-31.931	1.00	75.21	GS7
ATOM	40544	NE1	TRP	G	103	235.594	130.199	-32.366	1.00	75.21	GS7
ATOM	40545	CZ2	TRP	G	103	234.097	130.608	-34.342	1.00	75.21	GS7
ATOM	40546	CZ3	TRP	G	103	234.940	132.348	-35.797	1.00	75.21	GS7
ATOM	40547	CH2	TRP	G	103	233.977	131.381	-35.469	1.00	75.21	GS7
ATOM	40548	C	TRP	G	103	240.302	133.149	-31.154	1.00	64.58	GS7
ATOM	40549	O	TRP	G	103	241.192	132.320	-30.985	1.00	64.58	GS7
ATOM	40550	N	LEU	G	104	240.553	134.444	-31.288	1.00	70.89	GS7
ATOM	40551	CA	LEU	G	104	241.929	134.909	-31.218	1.00	70.89	GS7
ATOM	40552	CB	LEU	G	104	241.994	136.431	-31.355	1.00	57.77	GS7
ATOM	40553	CG	LEU	G	104	241.520	136.918	-32.728	1.00	57.77	GS7
ATOM	40554	CD1	LEU	G	104	241.736	138.413	-32.881	1.00	57.77	GS7
ATOM	40555	CD2	LEU	G	104	242.286	136.173	-33.790	1.00	57.77	GS7
ATOM	40556	C	LEU	G	104	242.524	134.448	-29.893	1.00	70.89	GS7
ATOM	40557	O	LEU	G	104	243.303	133.503	-29.865	1.00	70.89	GS7
ATOM	40558	N	VAL	G	105	242.142	135.086	-28.793	1.00	48.27	GS7
ATOM	40559	CA	VAL	G	105	242.654	134.700	-27.474	1.00	48.27	GS7
ATOM	40560	CB	VAL	G	105	241.729	135.200	-26.351	1.00	76.73	GS7
ATOM	40561	CG1	VAL	G	105	242.385	134.953	-24.991	1.00	76.73	GS7
ATOM	40562	CG2	VAL	G	105	241.405	136.666	-26.560	1.00	76.73	GS7
ATOM	40563	C	VAL	G	105	242.812	133.184	-27.279	1.00	48.27	GS7
ATOM	40564	O	VAL	G	105	243.813	132.720	-26.720	1.00	48.27	GS7
ATOM	40565	N	GLN	G	106	241.808	132.430	-27.726	1.00	57.34	GS7



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ATOM	40566	CA	GLN	G	106	241.813	130.976	-27.608	1.00	57.34	GS7
ATOM	40567	CB	GLN	G	106	240.493	130.400	-28.116	1.00	99.98	GS7
ATOM	40568	CG	GLN	G	106	239.305	130.605	-27.208	1.00	99.98	GS7
ATOM	40569	CD	GLN	G	106	238.078	129.847	-27.690	1.00	99.98	GS7
ATOM	40570	OE1	GLN	G	106	237.036	129.870	-27.047	1.00	99.98	GS7
ATOM	40571	NE2	GLN	G	106	238.198	129.173	-28.829	1.00	99.98	GS7
ATOM	40572	C	GLN	G	106	242.957	130.338	-28.391	1.00	57.34	GS7
ATOM	40573	O	GLN	G	106	243.865	129.720	-27.824	1.00	57.34	GS7
ATOM	40574	N	ALA	G	107	242.889	130.473	-29.708	1.00	89.36	GS7
ATOM	40575	CA	ALA	G	107	243.910	129.926	-30.581	1.00	89.36	GS7
ATOM	40576	CB	ALA	G	107	243.623	130.340	-32.016	1.00	35.12	GS7
ATOM	40577	C	ALA	G	107	245.266	130.465	-30.126	1.00	89.36	GS7
ATOM	40578	O	ALA	G	107	246.274	129.757	-30.132	1.00	89.36	GS7
ATOM	40579	N	ALA	G	108	245.268	131.728	-29.720	1.00	49.64	GS7
ATOM	40580	CA	ALA	G	108	246.473	132.391	-29.260	1.00	49.64	GS7
ATOM	40581	CB	ALA	G	108	246.153	133.795	-28.831	1.00	38.42	GS7
ATOM	40582	C	ALA	G	108	247.039	131.624	-28.094	1.00	49.64	GS7
ATOM	40583	O	ALA	G	108	248.218	131.275	-28.086	1.00	49.64	GS7
ATOM	40584	N	ASN	G	109	246.195	131.371	-27.101	1.00	55.20	GS7
ATOM	40585	CA	ASN	G	109	246.635	130.638	-25.928	1.00	55.20	GS7
ATOM	40586	CB	ASN	G	109	245.618	130.770	-24.802	1.00	83.20	GS7
ATOM	40587	CG	ASN	G	109	245.929	131.927	-23.881	1.00	83.20	GS7
ATOM	40588	OD1	ASN	G	109	246.993	131.970	-23.263	1.00	83.20	GS7
ATOM	40589	ND2	ASN	G	109	245.001	132.873	-23.782	1.00	83.20	GS7
ATOM	40590	C	ASN	G	109	246.876	129.173	-26.238	1.00	55.20	GS7
ATOM	40591	O	ASN	G	109	247.214	128.388	-25.347	1.00	55.20	GS7
ATOM	40592	N	GLN	G	110	246.701	128.807	-27.503	1.00	76.99	GS7
ATOM	40593	CA	GLN	G	110	246.931	127.434	-27.923	1.00	76.99	GS7
ATOM	40594	CB	GLN	G	110	245.849	126.986	-28.901	1.00	129.70	GS7
ATOM	40595	CG	GLN	G	110	244.621	126.443	-28.212	1.00	129.70	GS7
ATOM	40596	CD	GLN	G	110	244.963	125.318	-27.260	1.00	129.70	GS7
ATOM	40597	OE1	GLN	G	110	245.576	125.537	-26.214	1.00	129.70	GS7
ATOM	40598	NE2	GLN	G	110	244.580	124.101	-27.622	1.00	129.70	GS7
ATOM	40599	C	GLN	G	110	248.302	127.302	-28.566	1.00	76.99	GS7
ATOM	40600	O	GLN	G	110	248.747	126.201	-28.903	1.00	76.99	GS7
ATOM	40601	N	ARG	G	111	248.969	128.440	-28.728	1.00	90.99	GS7
ATOM	40602	CA	ARG	G	111	250.298	128.474	-29.316	1.00	90.99	GS7
ATOM	40603	CB	ARG	G	111	250.674	129.915	-29.653	1.00	88.55	GS7
ATOM	40604	CG	ARG	G	111	250.137	130.378	-31.000	1.00	88.55	GS7
ATOM	40605	CD	ARG	G	111	250.139	131.895	-31.126	1.00	88.55	GS7
ATOM	40606	NE	ARG	G	111	250.200	132.336	-32.520	1.00	88.55	GS7
ATOM	40607	CZ	ARG	G	111	251.293	132.273	-33.279	1.00	88.55	GS7
ATOM	40608	NH1	ARG	G	111	252.427	131.787	-32.788	1.00	88.55	GS7
ATOM	40609	NH2	ARG	G	111	251.257	132.707	-34.531	1.00	88.55	GS7
ATOM	40610	C	ARG	G	111	251.316	127.859	-28.363	1.00	90.99	GS7
ATOM	40611	O	ARG	G	111	250.983	127.484	-27.236	1.00	90.99	GS7
ATOM	40612	N	PRO	G	112	252.571	127.730	-28.811	1.00	87.63	GS7
ATOM	40613	CD	PRO	G	112	252.952	127.686	-30.234	1.00	67.45	GS7
ATOM	40614	CA	PRO	G	112	253.627	127.148	-27.981	1.00	87.63	GS7
ATOM	40615	CB	PRO	G	112	254.419	126.331	-28.983	1.00	67.45	GS7
ATOM	40616	CG	PRO	G	112	254.397	127.208	-30.177	1.00	67.45	GS7
ATOM	40617	C	PRO	G	112	254.523	128.106	-27.197	1.00	87.63	GS7
ATOM	40618	O	PRO	G	112	254.935	127.780	-26.083	1.00	87.63	GS7
ATOM	40619	N	GLU	G	113	254.841	129.268	-27.763	1.00	73.83	GS7
ATOM	40620	CA	GLU	G	113	255.714	130.209	-27.062	1.00	73.83	GS7
ATOM	40621	CB	GLU	G	113	255.679	131.588	-27.730	1.00	74.43	GS7
ATOM	40622	CG	GLU	G	113	254.410	131.905	-28.491	1.00	74.43	GS7
ATOM	40623	CD	GLU	G	113	254.458	131.421	-29.922	1.00	74.43	GS7
ATOM	40624	OE1	GLU	G	113	255.350	131.858	-30.676	1.00	74.43	GS7
ATOM	40625	OE2	GLU	G	113	253.598	130.605	-30.296	1.00	74.43	GS7
ATOM	40626	C	GLU	G	113	255.354	130.329	-25.577	1.00	73.83	GS7
ATOM	40627	O	GLU	G	113	254.214	130.636	-25.233	1.00	73.83	GS7
ATOM	40628	N	ARG	G	114	256.335	130.087	-24.708	1.00	58.59	GS7
ATOM	40629	CA	ARG	G	114	256.136	130.126	-23.257	1.00	58.59	GS7
ATOM	40630	CB	ARG	G	114	257.470	129.959	-22.520	1.00	85.66	GS7
ATOM	40631	CG	ARG	G	114	258.317	128.726	-22.831	1.00	85.66	GS7
ATOM	40632	CD	ARG	G	114	259.476	128.754	-21.846	1.00	85.66	GS7
ATOM	40633	NE	ARG	G	114	260.598	127.844	-22.088	1.00	85.66	GS7
ATOM	40634	CZ	ARG	G	114	260.527	126.516	-22.082	1.00	85.66	GS7
ATOM	40635	NH1	ARG	G	114	259.373	125.905	-21.862	1.00	85.66	GS7
ATOM	40636	NH2	ARG	G	114	261.628	125.795	-22.244	1.00	85.66	GS7
ATOM	40637	C	ARG	G	114	255.454	131.386	-22.706	1.00	58.59	GS7
ATOM	40638	O	ARG	G	114	254.630	131.296	-21.793	1.00	58.59	GS7
ATOM	40639	N	ARG	G	115	255.803	132.553	-23.248	1.00	64.01	GS7
ATOM	40640	CA	ARG	G	115	255.243	133.819	-22.772	1.00	64.01	GS7
ATOM	40641	CB	ARG	G	115	256.251	134.948	-22.975	1.00	164.81	GS7
ATOM	40642	CG	ARG	G	115	257.385	134.967	-21.966	1.00	164.81	GS7



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ATOM	40643	CD	ARG	G	115	258.439	135.960	-22.403	1.00164.81	GS7
ATOM	40644	NE	ARG	G	115	257.846	137.255	-22.722	1.00164.81	GS7
ATOM	40645	CZ	ARG	G	115	258.400	138.150	-23.533	1.00164.81	GS7
ATOM	40646	NH1	ARG	G	115	259.563	137.887	-24.113	1.00164.81	GS7
ATOM	40647	NH2	ARG	G	115	257.789	139.304	-23.770	1.00164.81	GS7
ATOM	40648	C	ARG	G	115	253.908	134.233	-23.371	1.00 64.01	GS7
ATOM	40649	O	ARG	G	115	253.723	134.250	-24.587	1.00 64.01	GS7
ATOM	40650	N	ALA	G	116	252.988	134.590	-22.486	1.00 70.51	GS7
ATOM	40651	CA	ALA	G	116	251.646	135.007	-22.859	1.00 70.51	GS7
ATOM	40652	CB	ALA	G	116	250.875	135.409	-21.600	1.00 18.47	GS7
ATOM	40653	C	ALA	G	116	251.607	136.147	-23.876	1.00 70.51	GS7
ATOM	40654	O	ALA	G	116	251.101	135.982	-24.996	1.00 70.51	GS7
ATOM	40655	N	ALA	G	117	252.130	137.303	-23.468	1.00 81.21	GS7
ATOM	40656	CA	ALA	G	117	252.142	138.494	-24.313	1.00 81.21	GS7
ATOM	40657	CB	ALA	G	117	253.062	139.541	-23.712	1.00 82.65	GS7
ATOM	40658	C	ALA	G	117	252.583	138.156	-25.726	1.00 81.21	GS7
ATOM	40659	O	ALA	G	117	252.065	138.694	-26.708	1.00 81.21	GS7
ATOM	40660	N	VAL	G	118	253.548	137.251	-25.812	1.00 84.34	GS7
ATOM	40661	CA	VAL	G	118	254.081	136.806	-27.087	1.00 84.34	GS7
ATOM	40662	CB	VAL	G	118	255.149	135.735	-26.872	1.00 58.66	GS7
ATOM	40663	CG1	VAL	G	118	255.606	135.195	-28.202	1.00 58.66	GS7
ATOM	40664	CG2	VAL	G	118	256.311	136.317	-26.083	1.00 58.66	GS7
ATOM	40665	C	VAL	G	118	252.985	136.211	-27.954	1.00 84.34	GS7
ATOM	40666	O	VAL	G	118	252.704	136.697	-29.051	1.00 84.34	GS7
ATOM	40667	N	ARG	G	119	252.374	135.146	-27.446	1.00 70.01	GS7
ATOM	40668	CA	ARG	G	119	251.315	134.460	-28.162	1.00 70.01	GS7
ATOM	40669	CB	ARG	G	119	250.596	133.488	-27.239	1.00 68.53	GS7
ATOM	40670	CG	ARG	G	119	251.411	132.279	-26.887	1.00 68.53	GS7
ATOM	40671	CD	ARG	G	119	250.539	131.255	-26.201	1.00 68.53	GS7
ATOM	40672	NE	ARG	G	119	249.940	131.786	-24.979	1.00 68.53	GS7
ATOM	40673	CZ	ARG	G	119	250.634	132.162	-23.905	1.00 68.53	GS7
ATOM	40674	NH1	ARG	G	119	251.958	132.067	-23.893	1.00 68.53	GS7
ATOM	40675	NH2	ARG	G	119	250.004	132.635	-22.837	1.00 68.53	GS7
ATOM	40676	C	ARG	G	119	250.299	135.392	-28.790	1.00 70.01	GS7
ATOM	40677	O	ARG	G	119	249.917	135.206	-29.937	1.00 70.01	GS7
ATOM	40678	N	ILE	G	120	249.852	136.395	-28.051	1.00 55.58	GS7
ATOM	40679	CA	ILE	G	120	248.864	137.305	-28.611	1.00 55.58	GS7
ATOM	40680	CB	ILE	G	120	248.424	138.355	-27.569	1.00 79.87	GS7
ATOM	40681	CG2	ILE	G	120	247.545	139.434	-28.218	1.00 79.87	GS7
ATOM	40682	CG1	ILE	G	120	247.673	137.648	-26.444	1.00 79.87	GS7
ATOM	40683	CD1	ILE	G	120	247.011	138.585	-25.483	1.00 79.87	GS7
ATOM	40684	C	ILE	G	120	249.394	138.009	-29.858	1.00 55.58	GS7
ATOM	40685	O	ILE	G	120	248.803	137.910	-30.950	1.00 55.58	GS7
ATOM	40686	N	ALA	G	121	250.510	138.713	-29.684	1.00 84.90	GS7
ATOM	40687	CA	ALA	G	121	251.144	139.449	-30.769	1.00 84.90	GS7
ATOM	40688	CB	ALA	G	121	252.544	139.882	-30.351	1.00 75.14	GS7
ATOM	40689	C	ALA	G	121	251.212	138.570	-32.006	1.00 84.90	GS7
ATOM	40690	O	ALA	G	121	250.647	138.888	-33.052	1.00 84.90	GS7
ATOM	40691	N	HIS	G	122	251.907	137.453	-31.867	1.00 73.36	GS7
ATOM	40692	CA	HIS	G	122	252.055	136.514	-32.957	1.00 73.36	GS7
ATOM	40693	CB	HIS	G	122	252.722	135.241	-32.442	1.00 83.53	GS7
ATOM	40694	CG	HIS	G	122	254.179	135.403	-32.158	1.00 83.53	GS7
ATOM	40695	CD2	HIS	G	122	255.069	136.334	-32.577	1.00 83.53	GS7
ATOM	40696	ND1	HIS	G	122	254.889	134.516	-31.381	1.00 83.53	GS7
ATOM	40697	CE1	HIS	G	122	256.154	134.893	-31.333	1.00 83.53	GS7
ATOM	40698	NE2	HIS	G	122	256.290	135.993	-32.051	1.00 83.53	GS7
ATOM	40699	C	HIS	G	122	250.713	136.184	-33.592	1.00 73.36	GS7
ATOM	40700	O	HIS	G	122	250.414	136.640	-34.696	1.00 73.36	GS7
ATOM	40701	N	GLU	G	123	249.916	135.387	-32.885	1.00 78.71	GS7
ATOM	40702	CA	GLU	G	123	248.604	134.979	-33.355	1.00 78.71	GS7
ATOM	40703	CB	GLU	G	123	247.736	134.539	-32.177	1.00 72.91	GS7
ATOM	40704	CG	GLU	G	123	246.389	133.995	-32.598	1.00 72.91	GS7
ATOM	40705	CD	GLU	G	123	246.502	132.678	-33.339	1.00 72.91	GS7
ATOM	40706	OE1	GLU	G	123	245.511	132.266	-33.976	1.00 72.91	GS7
ATOM	40707	OE2	GLU	G	123	247.578	132.045	-33.281	1.00 72.91	GS7
ATOM	40708	C	GLU	G	123	247.924	136.126	-34.090	1.00 78.71	GS7
ATOM	40709	O	GLU	G	123	247.315	135.922	-35.142	1.00 78.71	GS7
ATOM	40710	N	LEU	G	124	248.026	137.332	-33.535	1.00 85.29	GS7
ATOM	40711	CA	LEU	G	124	247.426	138.507	-34.166	1.00 85.29	GS7
ATOM	40712	CB	LEU	G	124	247.713	139.751	-33.327	1.00 55.82	GS7
ATOM	40713	CG	LEU	G	124	246.730	139.927	-32.169	1.00 55.82	GS7
ATOM	40714	CD1	LEU	G	124	247.267	140.925	-31.167	1.00 55.82	GS7
ATOM	40715	CD2	LEU	G	124	245.390	140.380	-32.715	1.00 55.82	GS7
ATOM	40716	C	LEU	G	124	247.979	138.684	-35.576	1.00 85.29	GS7
ATOM	40717	O	LEU	G	124	247.234	138.732	-36.559	1.00 85.29	GS7
ATOM	40718	N	MET	G	125	249.297	138.774	-35.666	1.00 71.56	GS7
ATOM	40719	CA	MET	G	125	249.952	138.927	-36.943	1.00 71.56	GS7



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ATOM	40720	CB	MET	G	125	251.459	138.876	-36.732	1.00100.21	GS7
ATOM	40721	CG	MET	G	125	251.891	139.934	-35.730	1.00100.21	GS7
ATOM	40722	SD	MET	G	125	253.648	140.096	-35.427	1.00100.21	GS7
ATOM	40723	CE	MET	G	125	253.803	139.294	-33.819	1.00100.21	GS7
ATOM	40724	C	MET	G	125	249.470	137.829	-37.877	1.00 71.56	GS7
ATOM	40725	O	MET	G	125	248.868	138.118	-38.902	1.00 71.56	GS7
ATOM	40726	N	ASP	G	126	249.706	136.573	-37.510	1.00 69.48	GS7
ATOM	40727	CA	ASP	G	126	249.281	135.438	-38.332	1.00 69.48	GS7
ATOM	40728	CB	ASP	G	126	249.306	134.147	-37.516	1.00 91.53	GS7
ATOM	40729	CG	ASP	G	126	250.694	133.576	-37.377	1.00 91.53	GS7
ATOM	40730	OD1	ASP	G	126	251.603	134.309	-36.939	1.00 91.53	GS7
ATOM	40731	OD2	ASP	G	126	250.877	132.388	-37.704	1.00 91.53	GS7
ATOM	40732	C	ASP	G	126	247.878	135.643	-38.877	1.00 69.48	GS7
ATOM	40733	O	ASP	G	126	247.581	135.315	-40.030	1.00 69.48	GS7
ATOM	40734	N	ALA	G	127	247.012	136.179	-38.028	1.00 85.23	GS7
ATOM	40735	CA	ALA	G	127	245.638	136.429	-38.415	1.00 85.23	GS7
ATOM	40736	CB	ALA	G	127	244.862	136.985	-37.238	1.00 90.88	GS7
ATOM	40737	C	ALA	G	127	245.649	137.423	-39.561	1.00 85.23	GS7
ATOM	40738	O	ALA	G	127	244.989	137.220	-40.578	1.00 85.23	GS7
ATOM	40739	N	ALA	G	128	246.412	138.495	-39.393	1.00 85.20	GS7
ATOM	40740	CA	ALA	G	128	246.513	139.515	-40.425	1.00 85.20	GS7
ATOM	40741	CB	ALA	G	128	247.528	140.567	-40.022	1.00 45.10	GS7
ATOM	40742	C	ALA	G	128	246.923	138.869	-41.742	1.00 85.20	GS7
ATOM	40743	O	ALA	G	128	246.352	139.168	-42.792	1.00 85.20	GS7
ATOM	40744	N	GLU	G	129	247.911	137.980	-41.675	1.00115.91	GS7
ATOM	40745	CA	GLU	G	129	248.403	137.280	-42.856	1.00115.91	GS7
ATOM	40746	CB	GLU	G	129	249.623	136.430	-42.497	1.00197.14	GS7
ATOM	40747	CG	GLU	G	129	250.903	137.233	-42.337	1.00197.14	GS7
ATOM	40748	CD	GLU	G	129	251.356	137.861	-43.644	1.00197.14	GS7
ATOM	40749	OE1	GLU	G	129	251.717	137.106	-44.573	1.00197.14	GS7
ATOM	40750	OE2	GLU	G	129	251.346	139.108	-43.745	1.00197.14	GS7
ATOM	40751	C	GLU	G	129	247.321	136.400	-43.468	1.00115.91	GS7
ATOM	40752	O	GLU	G	129	247.018	136.510	-44.654	1.00115.91	GS7
ATOM	40753	N	GLY	G	130	246.734	135.529	-42.659	1.00 63.93	GS7
ATOM	40754	CA	GLY	G	130	245.691	134.665	-43.174	1.00 63.93	GS7
ATOM	40755	C	GLY	G	130	245.949	133.254	-42.722	1.00 63.93	GS7
ATOM	40756	O	GLY	G	130	245.400	132.293	-43.264	1.00 63.93	GS7
ATOM	40757	N	LYS	G	131	246.795	133.138	-41.709	1.00 85.17	GS7
ATOM	40758	CA	LYS	G	131	247.164	131.848	-41.154	1.00 85.17	GS7
ATOM	40759	CB	LYS	G	131	248.628	131.558	-41.497	1.00135.21	GS7
ATOM	40760	CG	LYS	G	131	249.556	132.723	-41.184	1.00135.21	GS7
ATOM	40761	CD	LYS	G	131	250.808	132.732	-42.054	1.00135.21	GS7
ATOM	40762	CE	LYS	G	131	251.675	133.955	-41.738	1.00135.21	GS7
ATOM	40763	NZ	LYS	G	131	252.799	134.167	-42.697	1.00135.21	GS7
ATOM	40764	C	LYS	G	131	246.954	131.878	-39.646	1.00 85.17	GS7
ATOM	40765	O	LYS	G	131	246.625	132.923	-39.077	1.00 85.17	GS7
ATOM	40766	N	GLY	G	132	247.135	130.730	-39.004	1.00104.94	GS7
ATOM	40767	CA	GLY	G	132	246.964	130.661	-37.565	1.00104.94	GS7
ATOM	40768	C	GLY	G	132	245.666	130.000	-37.141	1.00104.94	GS7
ATOM	40769	O	GLY	G	132	244.618	130.211	-37.756	1.00104.94	GS7
ATOM	40770	N	GLY	G	133	245.742	129.203	-36.077	1.00 86.04	GS7
ATOM	40771	CA	GLY	G	133	244.570	128.506	-35.576	1.00 86.04	GS7
ATOM	40772	C	GLY	G	133	243.327	129.369	-35.480	1.00 86.04	GS7
ATOM	40773	O	GLY	G	133	242.202	128.863	-35.555	1.00 86.04	GS7
ATOM	40774	N	ALA	G	134	243.528	130.673	-35.309	1.00 58.11	GS7
ATOM	40775	CA	ALA	G	134	242.414	131.601	-35.203	1.00 58.11	GS7
ATOM	40776	CB	ALA	G	134	242.922	133.005	-34.969	1.00 81.32	GS7
ATOM	40777	C	ALA	G	134	241.641	131.544	-36.498	1.00 58.11	GS7
ATOM	40778	O	ALA	G	134	240.491	131.106	-36.539	1.00 58.11	GS7
ATOM	40779	N	VAL	G	135	242.300	131.967	-37.566	1.00 64.82	GS7
ATOM	40780	CA	VAL	G	135	241.685	131.992	-38.881	1.00 64.82	GS7
ATOM	40781	CB	VAL	G	135	242.687	132.485	-39.929	1.00 65.88	GS7
ATOM	40782	CG1	VAL	G	135	241.957	132.818	-41.215	1.00 65.88	GS7
ATOM	40783	CG2	VAL	G	135	243.441	133.705	-39.394	1.00 65.88	GS7
ATOM	40784	C	VAL	G	135	241.128	130.635	-39.313	1.00 64.82	GS7
ATOM	40785	O	VAL	G	135	240.038	130.559	-39.892	1.00 64.82	GS7
ATOM	40786	N	LYS	G	136	241.871	129.568	-39.027	1.00 67.31	GS7
ATOM	40787	CA	LYS	G	136	241.431	128.231	-39.395	1.00 67.31	GS7
ATOM	40788	CB	LYS	G	136	242.336	127.172	-38.773	1.00112.60	GS7
ATOM	40789	CG	LYS	G	136	241.986	125.761	-39.205	1.00112.60	GS7
ATOM	40790	CD	LYS	G	136	241.535	124.902	-38.032	1.00112.60	GS7
ATOM	40791	CE	LYS	G	136	242.688	124.635	-37.066	1.00112.60	GS7
ATOM	40792	NZ	LYS	G	136	242.341	123.684	-35.967	1.00112.60	GS7
ATOM	40793	C	LYS	G	136	239.996	128.018	-38.933	1.00 67.31	GS7
ATOM	40794	O	LYS	G	136	239.119	127.746	-39.747	1.00 67.31	GS7
ATOM	40795	N	LYS	G	137	239.757	128.157	-37.629	1.00 77.76	GS7
ATOM	40796	CA	LYS	G	137	238.415	127.986	-37.071	1.00 77.76	GS7



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ATOM	40797	CB	LYS	G	137	238.359	128.507	-35.629	1.00128.97	GS7
ATOM	40798	CG	LYS	G	137	239.359	127.834	-34.700	1.00128.97	GS7
ATOM	40799	CD	LYS	G	137	239.164	128.215	-33.234	1.00128.97	GS7
ATOM	40800	CE	LYS	G	137	240.183	127.485	-32.364	1.00128.97	GS7
ATOM	40801	NZ	LYS	G	137	239.949	127.682	-30.918	1.00128.97	GS7
ATOM	40802	C	LYS	G	137	237.379	128.719	-37.921	1.00 77.76	GS7
ATOM	40803	O	LYS	G	137	236.387	128.129	-38.346	1.00 77.76	GS7
ATOM	40804	N	LYS	G	138	237.618	130.005	-38.167	1.00 63.35	GS7
ATOM	40805	CA	LYS	G	138	236.716	130.817	-38.969	1.00 63.35	GS7
ATOM	40806	CB	LYS	G	138	237.348	132.181	-39.222	1.00 62.41	GS7
ATOM	40807	CG	LYS	G	138	236.598	133.068	-40.202	1.00 62.41	GS7
ATOM	40808	CD	LYS	G	138	236.880	132.690	-41.653	1.00 62.41	GS7
ATOM	40809	CE	LYS	G	138	236.413	133.788	-42.598	1.00 62.41	GS7
ATOM	40810	NZ	LYS	G	138	236.715	133.495	-44.023	1.00 62.41	GS7
ATOM	40811	C	LYS	G	138	236.421	130.133	-40.295	1.00 63.35	GS7
ATOM	40812	O	LYS	G	138	235.266	130.022	-40.716	1.00 63.35	GS7
ATOM	40813	N	GLU	G	139	237.477	129.682	-40.960	1.00 82.54	GS7
ATOM	40814	CA	GLU	G	139	237.331	129.008	-42.241	1.00 82.54	GS7
ATOM	40815	CB	GLU	G	139	238.701	128.832	-42.892	1.00122.53	GS7
ATOM	40816	CG	GLU	G	139	239.423	130.142	-43.151	1.00122.53	GS7
ATOM	40817	CD	GLU	G	139	240.721	129.953	-43.914	1.00122.53	GS7
ATOM	40818	OE1	GLU	G	139	241.660	129.336	-43.364	1.00122.53	GS7
ATOM	40819	OE2	GLU	G	139	240.800	130.419	-45.071	1.00122.53	GS7
ATOM	40820	C	GLU	G	139	236.648	127.651	-42.075	1.00 82.54	GS7
ATOM	40821	O	GLU	G	139	235.797	127.277	-42.886	1.00 82.54	GS7
ATOM	40822	N	ASP	G	140	237.025	126.924	-41.020	1.00 65.97	GS7
ATOM	40823	CA	ASP	G	140	236.461	125.605	-40.720	1.00 65.97	GS7
ATOM	40824	CB	ASP	G	140	237.165	124.988	-39.507	1.00151.31	GS7
ATOM	40825	CG	ASP	G	140	238.587	124.554	-39.814	1.00151.31	GS7
ATOM	40826	OD1	ASP	G	140	239.391	125.399	-40.257	1.00151.31	GS7
ATOM	40827	OD2	ASP	G	140	238.902	123.363	-39.613	1.00151.31	GS7
ATOM	40828	C	ASP	G	140	234.966	125.707	-40.453	1.00 65.97	GS7
ATOM	40829	O	ASP	G	140	234.207	124.776	-40.726	1.00 65.97	GS7
ATOM	40830	N	VAL	G	141	234.550	126.849	-39.914	1.00 84.50	GS7
ATOM	40831	CA	VAL	G	141	233.146	127.090	-39.628	1.00 84.50	GS7
ATOM	40832	CB	VAL	G	141	232.948	128.348	-38.781	1.00 50.67	GS7
ATOM	40833	CG1	VAL	G	141	231.470	128.701	-38.713	1.00 50.67	GS7
ATOM	40834	CG2	VAL	G	141	233.499	128.115	-37.389	1.00 50.67	GS7
ATOM	40835	C	VAL	G	141	232.425	127.280	-40.940	1.00 84.50	GS7
ATOM	40836	O	VAL	G	141	231.518	126.520	-41.265	1.00 84.50	GS7
ATOM	40837	N	GLU	G	142	232.828	128.300	-41.692	1.00 58.61	GS7
ATOM	40838	CA	GLU	G	142	232.211	128.564	-42.990	1.00 58.61	GS7
ATOM	40839	CB	GLU	G	142	233.046	129.569	-43.774	1.00107.52	GS7
ATOM	40840	CG	GLU	G	142	233.046	130.942	-43.157	1.00107.52	GS7
ATOM	40841	CD	GLU	G	142	233.921	131.907	-43.910	1.00107.52	GS7
ATOM	40842	OE1	GLU	G	142	233.823	133.119	-43.645	1.00107.52	GS7
ATOM	40843	OE2	GLU	G	142	234.711	131.452	-44.762	1.00107.52	GS7
ATOM	40844	C	GLU	G	142	232.056	127.275	-43.801	1.00 58.61	GS7
ATOM	40845	O	GLU	G	142	231.066	127.105	-44.522	1.00 58.61	GS7
ATOM	40846	N	ARG	G	143	233.042	126.383	-43.671	1.00 76.94	GS7
ATOM	40847	CA	ARG	G	143	233.036	125.092	-44.357	1.00 76.94	GS7
ATOM	40848	CB	ARG	G	143	234.344	124.339	-44.117	1.00144.24	GS7
ATOM	40849	CG	ARG	G	143	235.520	124.881	-44.896	1.00144.24	GS7
ATOM	40850	CD	ARG	G	143	236.790	124.116	-44.572	1.00144.24	GS7
ATOM	40851	NE	ARG	G	143	237.915	124.570	-45.384	1.00144.24	GS7
ATOM	40852	CZ	ARG	G	143	239.163	124.136	-45.240	1.00144.24	GS7
ATOM	40853	NH1	ARG	G	143	239.447	123.236	-44.310	1.00144.24	GS7
ATOM	40854	NH2	ARG	G	143	240.125	124.597	-46.028	1.00144.24	GS7
ATOM	40855	C	ARG	G	143	231.879	124.254	-43.839	1.00 76.94	GS7
ATOM	40856	O	ARG	G	143	231.229	123.555	-44.610	1.00 76.94	GS7
ATOM	40857	N	MET	G	144	231.646	124.314	-42.527	1.00 61.03	GS7
ATOM	40858	CA	MET	G	144	230.543	123.593	-41.897	1.00 61.03	GS7
ATOM	40859	CB	MET	G	144	230.475	123.935	-40.410	1.00128.86	GS7
ATOM	40860	CG	MET	G	144	231.184	122.936	-39.535	1.00128.86	GS7
ATOM	40861	SD	MET	G	144	230.361	121.348	-39.691	1.00128.86	GS7
ATOM	40862	CE	MET	G	144	229.150	121.476	-38.349	1.00128.86	GS7
ATOM	40863	C	MET	G	144	229.256	124.016	-42.594	1.00 61.03	GS7
ATOM	40864	O	MET	G	144	228.355	123.212	-42.809	1.00 61.03	GS7
ATOM	40865	N	ALA	G	145	229.172	125.296	-42.929	1.00 61.03	GS7
ATOM	40866	CA	ALA	G	145	228.025	125.807	-43.659	1.00 61.03	GS7
ATOM	40867	CB	ALA	G	145	227.876	127.284	-43.428	1.00104.59	GS7
ATOM	40868	C	ALA	G	145	228.466	125.545	-45.083	1.00 61.03	GS7
ATOM	40869	O	ALA	G	145	229.512	124.931	-45.289	1.00 61.03	GS7
ATOM	40870	N	GLU	G	146	227.710	125.996	-46.076	1.00127.87	GS7
ATOM	40871	CA	GLU	G	146	228.127	125.760	-47.458	1.00127.87	GS7
ATOM	40872	CB	GLU	G	146	229.445	126.491	-47.744	1.00128.65	GS7
ATOM	40873	CG	GLU	G	146	229.353	127.595	-48.786	1.00128.65	GS7



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ATOM	40874	CD	GLU	G	146	228.905	127.083	-50.142	1.00128.65	GS7
ATOM	40875	OE1	GLU	G	146	229.526	126.122	-50.648	1.00128.65	GS7
ATOM	40876	OE2	GLU	G	146	227.937	127.644	-50.703	1.00128.65	GS7
ATOM	40877	C	GLU	G	146	228.317	124.261	-47.705	1.00127.87	GS7
ATOM	40878	O	GLU	G	146	228.572	123.830	-48.830	1.00127.87	GS7
ATOM	40879	N	ALA	G	147	228.203	123.481	-46.636	1.00 89.45	GS7
ATOM	40880	CA	ALA	G	147	228.339	122.034	-46.693	1.00 89.45	GS7
ATOM	40881	CB	ALA	G	147	229.389	121.574	-45.727	1.00 49.21	GS7
ATOM	40882	C	ALA	G	147	226.989	121.486	-46.288	1.00 89.45	GS7
ATOM	40883	O	ALA	G	147	226.533	120.458	-46.786	1.00 89.45	GS7
ATOM	40884	N	ASN	G	148	226.361	122.181	-45.354	1.00109.46	GS7
ATOM	40885	CA	ASN	G	148	225.042	121.808	-44.900	1.00109.46	GS7
ATOM	40886	CB	ASN	G	148	224.931	121.992	-43.393	1.00 86.75	GS7
ATOM	40887	CG	ASN	G	148	225.708	120.953	-42.625	1.00 86.75	GS7
ATOM	40888	OD1	ASN	G	148	225.296	119.801	-42.529	1.00 86.75	GS7
ATOM	40889	ND2	ASN	G	148	226.845	121.353	-42.079	1.00 86.75	GS7
ATOM	40890	C	ASN	G	148	224.144	122.794	-45.615	1.00109.46	GS7
ATOM	40891	O	ASN	G	148	222.954	122.906	-45.321	1.00109.46	GS7
ATOM	40892	N	ARG	G	149	224.738	123.506	-46.568	1.00101.20	GS7
ATOM	40893	CA	ARG	G	149	224.027	124.510	-47.338	1.00101.20	GS7
ATOM	40894	CB	ARG	G	149	225.017	125.295	-48.193	1.00149.87	GS7
ATOM	40895	CG	ARG	G	149	224.629	126.744	-48.378	1.00149.87	GS7
ATOM	40896	CD	ARG	G	149	223.774	126.907	-49.603	1.00149.87	GS7
ATOM	40897	NE	ARG	G	149	224.555	126.665	-50.809	1.00149.87	GS7
ATOM	40898	CZ	ARG	G	149	224.045	126.638	-52.033	1.00149.87	GS7
ATOM	40899	NH1	ARG	G	149	222.744	126.832	-52.211	1.00149.87	GS7
ATOM	40900	NH2	ARG	G	149	224.836	126.433	-53.079	1.00149.87	GS7
ATOM	40901	C	ARG	G	149	222.919	123.905	-48.198	1.00101.20	GS7
ATOM	40902	O	ARG	G	149	222.370	124.557	-49.086	1.00101.20	GS7
ATOM	40903	N	ALA	G	150	222.594	122.648	-47.917	1.00 89.15	GS7
ATOM	40904	CA	ALA	G	150	221.529	121.947	-48.621	1.00 89.15	GS7
ATOM	40905	CB	ALA	G	150	221.883	120.479	-48.778	1.00141.62	GS7
ATOM	40906	C	ALA	G	150	220.283	122.098	-47.756	1.00 89.15	GS7
ATOM	40907	O	ALA	G	150	219.156	122.001	-48.234	1.00 89.15	GS7
ATOM	40908	N	TYR	G	151	220.507	122.338	-46.470	1.00125.16	GS7
ATOM	40909	CA	TYR	G	151	219.422	122.527	-45.521	1.00125.16	GS7
ATOM	40910	CB	TYR	G	151	219.691	121.759	-44.236	1.00119.16	GS7
ATOM	40911	CG	TYR	G	151	220.001	120.304	-44.436	1.00119.16	GS7
ATOM	40912	CD1	TYR	G	151	221.158	119.901	-45.095	1.00119.16	GS7
ATOM	40913	CE1	TYR	G	151	221.478	118.555	-45.221	1.00119.16	GS7
ATOM	40914	CD2	TYR	G	151	219.165	119.326	-43.914	1.00119.16	GS7
ATOM	40915	CE2	TYR	G	151	219.473	117.978	-44.032	1.00119.16	GS7
ATOM	40916	CZ	TYR	G	151	220.631	117.598	-44.681	1.00119.16	GS7
ATOM	40917	OH	TYR	G	151	220.948	116.262	-44.755	1.00119.16	GS7
ATOM	40918	C	TYR	G	151	219.321	124.010	-45.198	1.00125.16	GS7
ATOM	40919	O	TYR	G	151	219.233	124.400	-44.033	1.00125.16	GS7
ATOM	40920	N	ALA	G	152	219.357	124.834	-46.240	1.00101.68	GS7
ATOM	40921	CA	ALA	G	152	219.257	126.279	-46.082	1.00101.68	GS7
ATOM	40922	CB	ALA	G	152	220.075	126.985	-47.160	1.00 82.89	GS7
ATOM	40923	C	ALA	G	152	217.795	126.694	-46.182	1.00101.68	GS7
ATOM	40924	O	ALA	G	152	217.444	127.834	-45.877	1.00101.68	GS7
ATOM	40925	N	HIS	G	153	216.950	125.763	-46.620	1.00147.32	GS7
ATOM	40926	CA	HIS	G	153	215.523	126.026	-46.754	1.00147.32	GS7
ATOM	40927	CB	HIS	G	153	214.877	124.996	-47.686	1.00139.48	GS7
ATOM	40928	CG	HIS	G	153	215.047	123.579	-47.237	1.00139.48	GS7
ATOM	40929	CD2	HIS	G	153	214.135	122.619	-46.950	1.00139.48	GS7
ATOM	40930	ND1	HIS	G	153	216.284	123.000	-47.049	1.00139.48	GS7
ATOM	40931	CE1	HIS	G	153	216.126	121.746	-46.665	1.00139.48	GS7
ATOM	40932	NE2	HIS	G	153	214.831	121.489	-46.597	1.00139.48	GS7
ATOM	40933	C	HIS	G	153	214.861	126.004	-45.374	1.00147.32	GS7
ATOM	40934	O	HIS	G	153	213.636	125.937	-45.248	1.00147.32	GS7
ATOM	40935	N	TYR	G	154	215.701	126.058	-44.345	1.00105.69	GS7
ATOM	40936	CA	TYR	G	154	215.263	126.088	-42.954	1.00105.69	GS7
ATOM	40937	CB	TYR	G	154	215.945	124.972	-42.169	1.00116.99	GS7
ATOM	40938	CG	TYR	G	154	215.495	123.573	-42.543	1.00116.99	GS7
ATOM	40939	CD1	TYR	G	154	216.371	122.491	-42.430	1.00116.99	GS7
ATOM	40940	CE1	TYR	G	154	215.960	121.195	-42.720	1.00116.99	GS7
ATOM	40941	CD2	TYR	G	154	214.188	123.319	-42.960	1.00116.99	GS7
ATOM	40942	CE2	TYR	G	154	213.766	122.018	-43.251	1.00116.99	GS7
ATOM	40943	CZ	TYR	G	154	214.661	120.964	-43.127	1.00116.99	GS7
ATOM	40944	OH	TYR	G	154	214.266	119.678	-43.404	1.00116.99	GS7
ATOM	40945	C	TYR	G	154	215.705	127.450	-42.420	1.00105.69	GS7
ATOM	40946	O	TYR	G	154	215.843	127.656	-41.212	1.00105.69	GS7
ATOM	40947	N	ARG	G	155	215.924	128.363	-43.367	1.00154.44	GS7
ATOM	40948	CA	ARG	G	155	216.363	129.738	-43.131	1.00154.44	GS7
ATOM	40949	CB	ARG	G	155	215.465	130.712	-43.902	1.00174.00	GS7
ATOM	40950	CG	ARG	G	155	215.835	130.856	-45.372	1.00174.00	GS7



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ATOM	40951	CD	ARG	G	155	217.237	131.428	-45.512	1.00174.00	GS7
ATOM	40952	NE	ARG	G	155	217.691	131.466	-46.899	1.00174.00	GS7
ATOM	40953	CZ	ARG	G	155	218.872	131.941	-47.280	1.00174.00	GS7
ATOM	40954	NH1	ARG	G	155	219.718	132.420	-46.377	1.00174.00	GS7
ATOM	40955	NH2	ARG	G	155	219.211	131.939	-48.563	1.00174.00	GS7
ATOM	40956	C	ARG	G	155	216.489	130.206	-41.694	1.00154.44	GS7
ATOM	40957	O	ARG	G	155	217.534	130.738	-41.315	1.00154.44	GS7
ATOM	40958	N	TRP	G	156	215.429	130.033	-40.909	1.00183.62	GS7
ATOM	40959	CA	TRP	G	156	215.435	130.443	-39.507	1.00183.62	GS7
ATOM	40960	CB	TRP	G	156	216.835	130.263	-38.923	1.00133.55	GS7
ATOM	40961	CG	TRP	G	156	216.881	129.966	-37.473	1.00133.55	GS7
ATOM	40962	CD2	TRP	G	156	217.383	128.773	-36.875	1.00133.55	GS7
ATOM	40963	CE2	TRP	G	156	217.264	128.926	-35.478	1.00133.55	GS7
ATOM	40964	CE3	TRP	G	156	217.925	127.586	-37.385	1.00133.55	GS7
ATOM	40965	CD1	TRP	G	156	216.485	130.776	-36.449	1.00133.55	GS7
ATOM	40966	NE1	TRP	G	156	216.713	130.159	-35.245	1.00133.55	GS7
ATOM	40967	CZ2	TRP	G	156	217.666	127.934	-34.581	1.00133.55	GS7
ATOM	40968	CZ3	TRP	G	156	218.323	126.602	-36.496	1.00133.55	GS7
ATOM	40969	CH2	TRP	G	156	218.191	126.783	-35.107	1.00133.55	GS7
ATOM	40970	C	TRP	G	156	215.014	131.907	-39.401	1.00183.62	GS7
ATOM	40971	O	TRP	G	156	214.599	132.471	-40.435	1.00183.62	GS7
ATOM	40972	OXT	TRP	G	156	215.099	132.474	-38.291	1.00133.55	GS7
TER	40972		TRP	G	156					GS7
ATOM	40973	CB	MET	H	1	140.152	114.487	-41.228	1.00 91.06	HS8
ATOM	40974	CG	MET	H	1	138.660	114.638	-40.962	1.00 91.06	HS8
ATOM	40975	SD	MET	H	1	137.760	113.064	-41.093	1.00 91.06	HS8
ATOM	40976	CE	MET	H	1	137.938	112.709	-42.869	1.00 91.06	HS8
ATOM	40977	C	MET	H	1	140.967	116.048	-39.467	1.00 93.57	HS8
ATOM	40978	O	MET	H	1	141.843	115.612	-38.721	1.00 93.57	HS8
ATOM	40979	N	MET	H	1	142.402	115.510	-41.383	1.00 93.57	HS8
ATOM	40980	CA	MET	H	1	140.990	115.739	-40.954	1.00 93.57	HS8
ATOM	40981	N	LEU	H	2	139.975	116.813	-39.034	1.00 59.12	HS8
ATOM	40982	CA	LEU	H	2	139.869	117.134	-37.617	1.00 59.12	HS8
ATOM	40983	CB	LEU	H	2	139.061	118.416	-37.400	1.00 65.16	HS8
ATOM	40984	CG	LEU	H	2	139.758	119.752	-37.628	1.00 65.16	HS8
ATOM	40985	CD1	LEU	H	2	138.811	120.887	-37.264	1.00 65.16	HS8
ATOM	40986	CD2	LEU	H	2	141.013	119.809	-36.772	1.00 65.16	HS8
ATOM	40987	C	LEU	H	2	139.226	115.981	-36.843	1.00 59.12	HS8
ATOM	40988	O	LEU	H	2	138.017	115.933	-36.625	1.00 59.12	HS8
ATOM	40989	N	THR	H	3	140.070	115.044	-36.451	1.00 41.71	HS8
ATOM	40990	CA	THR	H	3	139.697	113.870	-35.683	1.00 41.71	HS8
ATOM	40991	CB	THR	H	3	140.988	113.286	-35.108	1.00 82.55	HS8
ATOM	40992	OG1	THR	H	3	140.704	112.174	-34.262	1.00 82.55	HS8
ATOM	40993	CG2	THR	H	3	141.698	114.352	-34.318	1.00 82.55	HS8
ATOM	40994	C	THR	H	3	138.682	114.177	-34.548	1.00 41.71	HS8
ATOM	40995	O	THR	H	3	137.713	113.440	-34.362	1.00 41.71	HS8
ATOM	40996	N	ASP	H	4	138.899	115.254	-33.792	1.00 31.95	HS8
ATOM	40997	CA	ASP	H	4	137.980	115.605	-32.709	1.00 31.95	HS8
ATOM	40998	CB	ASP	H	4	138.567	115.207	-31.361	1.00 75.17	HS8
ATOM	40999	CG	ASP	H	4	137.583	115.394	-30.224	1.00 75.17	HS8
ATOM	41000	OD1	ASP	H	4	136.823	116.389	-30.231	1.00 75.17	HS8
ATOM	41001	OD2	ASP	H	4	137.578	114.546	-29.311	1.00 75.17	HS8
ATOM	41002	C	ASP	H	4	137.646	117.100	-32.683	1.00 31.95	HS8
ATOM	41003	O	ASP	H	4	138.228	117.882	-31.921	1.00 31.95	HS8
ATOM	41004	N	PRO	H	5	136.674	117.515	-33.501	1.00 40.18	HS8
ATOM	41005	CD	PRO	H	5	135.851	116.678	-34.389	1.00 37.05	HS8
ATOM	41006	CA	PRO	H	5	136.264	118.916	-33.578	1.00 40.18	HS8
ATOM	41007	CB	PRO	H	5	134.949	118.835	-34.328	1.00 37.05	HS8
ATOM	41008	CG	PRO	H	5	135.208	117.704	-35.282	1.00 37.05	HS8
ATOM	41009	C	PRO	H	5	136.130	119.595	-32.232	1.00 40.18	HS8
ATOM	41010	O	PRO	H	5	136.559	120.729	-32.065	1.00 40.18	HS8
ATOM	41011	N	ILE	H	6	135.544	118.892	-31.273	1.00 36.21	HS8
ATOM	41012	CA	ILE	H	6	135.347	119.440	-29.931	1.00 36.21	HS8
ATOM	41013	CB	ILE	H	6	134.492	118.488	-29.074	1.00 24.24	HS8
ATOM	41014	CG2	ILE	H	6	134.430	118.990	-27.621	1.00 24.24	HS8
ATOM	41015	CG1	ILE	H	6	133.111	118.346	-29.712	1.00 24.24	HS8
ATOM	41016	CD1	ILE	H	6	132.393	119.670	-29.918	1.00 24.24	HS8
ATOM	41017	C	ILE	H	6	136.666	119.690	-29.209	1.00 36.21	HS8
ATOM	41018	O	ILE	H	6	136.867	120.729	-28.548	1.00 36.21	HS8
ATOM	41019	N	ALA	H	7	137.549	118.710	-29.328	1.00 59.64	HS8
ATOM	41020	CA	ALA	H	7	138.855	118.796	-28.717	1.00 59.64	HS8
ATOM	41021	CB	ALA	H	7	139.567	117.471	-28.844	1.00 31.27	HS8
ATOM	41022	C	ALA	H	7	139.612	119.880	-29.470	1.00 59.64	HS8
ATOM	41023	O	ALA	H	7	140.392	120.654	-28.894	1.00 59.64	HS8
ATOM	41024	N	ASP	H	8	139.374	119.939	-30.771	1.00 51.16	HS8
ATOM	41025	CA	ASP	H	8	140.037	120.946	-31.555	1.00 51.16	HS8
ATOM	41026	CB	ASP	H	8	139.573	120.901	-33.003	1.00 60.04	HS8



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ATOM	41027	CG	ASP	H	8	140.346	121.856	-33.871	1.00	60.04	HS8
ATOM	41028	OD1	ASP	H	8	141.550	121.601	-34.123	1.00	60.04	HS8
ATOM	41029	OD2	ASP	H	8	139.747	122.870	-34.282	1.00	60.04	HS8
ATOM	41030	C	ASP	H	8	139.681	122.290	-30.953	1.00	51.16	HS8
ATOM	41031	O	ASP	H	8	140.562	123.072	-30.597	1.00	51.16	HS8
ATOM	41032	N	MET	H	9	138.383	122.541	-30.814	1.00	45.21	HS8
ATOM	41033	CA	MET	H	9	137.933	123.804	-30.267	1.00	45.21	HS8
ATOM	41034	CB	MET	H	9	136.417	123.852	-30.165	1.00	43.68	HS8
ATOM	41035	CG	MET	H	9	135.946	125.180	-29.593	1.00	43.68	HS8
ATOM	41036	SD	MET	H	9	134.205	125.448	-29.786	1.00	43.68	HS8
ATOM	41037	CE	MET	H	9	133.571	124.081	-28.774	1.00	43.68	HS8
ATOM	41038	C	MET	H	9	138.516	124.142	-28.904	1.00	45.21	HS8
ATOM	41039	O	MET	H	9	139.057	125.232	-28.695	1.00	45.21	HS8
ATOM	41040	N	LEU	H	10	138.405	123.219	-27.965	1.00	48.55	HS8
ATOM	41041	CA	LEU	H	10	138.914	123.499	-26.631	1.00	48.55	HS8
ATOM	41042	CB	LEU	H	10	138.791	122.244	-25.762	1.00	26.18	HS8
ATOM	41043	CG	LEU	H	10	137.341	121.779	-25.670	1.00	26.18	HS8
ATOM	41044	CD1	LEU	H	10	137.242	120.390	-25.091	1.00	26.18	HS8
ATOM	41045	CD2	LEU	H	10	136.590	122.799	-24.818	1.00	26.18	HS8
ATOM	41046	C	LEU	H	10	140.357	123.972	-26.705	1.00	48.55	HS8
ATOM	41047	O	LEU	H	10	140.765	124.927	-26.025	1.00	48.55	HS8
ATOM	41048	N	THR	H	11	141.113	123.308	-27.569	1.00	46.35	HS8
ATOM	41049	CA	THR	H	11	142.517	123.616	-27.721	1.00	46.35	HS8
ATOM	41050	CB	THR	H	11	143.215	122.517	-28.499	1.00	55.79	HS8
ATOM	41051	OG1	THR	H	11	143.063	121.273	-27.790	1.00	55.79	HS8
ATOM	41052	CG2	THR	H	11	144.688	122.846	-28.654	1.00	55.79	HS8
ATOM	41053	C	THR	H	11	142.747	124.964	-28.371	1.00	46.35	HS8
ATOM	41054	O	THR	H	11	143.486	125.786	-27.826	1.00	46.35	HS8
ATOM	41055	N	ARG	H	12	142.124	125.199	-29.526	1.00	43.90	HS8
ATOM	41056	CA	ARG	H	12	142.260	126.487	-30.186	1.00	43.90	HS8
ATOM	41057	CB	ARG	H	12	141.183	126.666	-31.233	1.00	50.97	HS8
ATOM	41058	CG	ARG	H	12	141.196	125.631	-32.320	1.00	50.97	HS8
ATOM	41059	CD	ARG	H	12	140.434	126.155	-33.549	1.00	50.97	HS8
ATOM	41060	NE	ARG	H	12	140.869	125.527	-34.801	1.00	50.97	HS8
ATOM	41061	CZ	ARG	H	12	140.742	126.081	-36.005	1.00	50.97	HS8
ATOM	41062	NH1	ARG	H	12	140.189	127.280	-36.133	1.00	50.97	HS8
ATOM	41063	NH2	ARG	H	12	141.191	125.444	-37.083	1.00	50.97	HS8
ATOM	41064	C	ARG	H	12	142.110	127.556	-29.104	1.00	43.90	HS8
ATOM	41065	O	ARG	H	12	142.963	128.434	-28.993	1.00	43.90	HS8
ATOM	41066	N	ILE	H	13	141.037	127.466	-28.306	1.00	24.73	HS8
ATOM	41067	CA	ILE	H	13	140.781	128.393	-27.185	1.00	24.73	HS8
ATOM	41068	CB	ILE	H	13	139.511	127.974	-26.369	1.00	18.10	HS8
ATOM	41069	CG2	ILE	H	13	139.320	128.859	-25.152	1.00	18.10	HS8
ATOM	41070	CG1	ILE	H	13	138.269	128.124	-27.228	1.00	18.10	HS8
ATOM	41071	CD1	ILE	H	13	137.109	127.280	-26.758	1.00	18.10	HS8
ATOM	41072	C	ILE	H	13	141.986	128.376	-26.222	1.00	24.73	HS8
ATOM	41073	O	ILE	H	13	142.545	129.435	-25.863	1.00	24.73	HS8
ATOM	41074	N	ARG	H	14	142.383	127.171	-25.809	1.00	33.00	HS8
ATOM	41075	CA	ARG	H	14	143.505	127.060	-24.906	1.00	33.00	HS8
ATOM	41076	CB	ARG	H	14	143.877	125.608	-24.610	1.00	43.58	HS8
ATOM	41077	CG	ARG	H	14	144.869	125.525	-23.429	1.00	43.58	HS8
ATOM	41078	CD	ARG	H	14	145.451	124.139	-23.135	1.00	43.58	HS8
ATOM	41079	NE	ARG	H	14	144.450	123.085	-23.098	1.00	43.58	HS8
ATOM	41080	CZ	ARG	H	14	144.068	122.398	-24.169	1.00	43.58	HS8
ATOM	41081	NH1	ARG	H	14	144.610	122.660	-25.350	1.00	43.58	HS8
ATOM	41082	NH2	ARG	H	14	143.144	121.445	-24.064	1.00	43.58	HS8
ATOM	41083	C	ARG	H	14	144.706	127.745	-25.506	1.00	33.00	HS8
ATOM	41084	O	ARG	H	14	145.380	128.513	-24.829	1.00	33.00	HS8
ATOM	41085	N	ASN	H	15	144.982	127.476	-26.779	1.00	51.15	HS8
ATOM	41086	CA	ASN	H	15	146.133	128.091	-27.430	1.00	51.15	HS8
ATOM	41087	CB	ASN	H	15	146.364	127.489	-28.818	1.00	60.04	HS8
ATOM	41088	CG	ASN	H	15	146.895	126.062	-28.762	1.00	60.04	HS8
ATOM	41089	OD1	ASN	H	15	147.751	125.729	-27.933	1.00	60.04	HS8
ATOM	41090	ND2	ASN	H	15	146.398	125.215	-29.660	1.00	60.04	HS8
ATOM	41091	C	ASN	H	15	146.036	129.616	-27.538	1.00	51.15	HS8
ATOM	41092	O	ASN	H	15	147.013	130.318	-27.266	1.00	51.15	HS8
ATOM	41093	N	ALA	H	16	144.876	130.140	-27.922	1.00	22.91	HS8
ATOM	41094	CA	ALA	H	16	144.740	131.589	-28.034	1.00	22.91	HS8
ATOM	41095	CB	ALA	H	16	143.404	131.957	-28.647	1.00	33.75	HS8
ATOM	41096	C	ALA	H	16	144.886	132.256	-26.678	1.00	22.91	HS8
ATOM	41097	O	ALA	H	16	145.659	133.198	-26.520	1.00	22.91	HS8
ATOM	41098	N	THR	H	17	144.147	131.770	-25.692	1.00	31.74	HS8
ATOM	41099	CA	THR	H	17	144.233	132.364	-24.367	1.00	31.74	HS8
ATOM	41100	CB	THR	H	17	143.348	131.607	-23.350	1.00	47.98	HS8
ATOM	41101	OG1	THR	H	17	143.709	130.217	-23.303	1.00	47.98	HS8
ATOM	41102	CG2	THR	H	17	141.884	131.734	-23.752	1.00	47.98	HS8
ATOM	41103	C	THR	H	17	145.666	132.421	-23.848	1.00	31.74	HS8



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ATOM	41104	O	THR	H	17	146.009	133.300	-23.055	1.00	31.74	HS8
ATOM	41105	N	ARG	H	18	146.512	131.500	-24.296	1.00	46.37	HS8
ATOM	41106	CA	ARG	H	18	147.885	131.500	-23.831	1.00	46.37	HS8
ATOM	41107	CB	ARG	H	18	148.553	130.187	-24.178	1.00	91.16	HS8
ATOM	41108	CG	ARG	H	18	148.506	129.202	-23.051	1.00	91.16	HS8
ATOM	41109	CD	ARG	H	18	147.115	129.098	-22.502	1.00	91.16	HS8
ATOM	41110	NE	ARG	H	18	147.072	128.209	-21.352	1.00	91.16	HS8
ATOM	41111	CZ	ARG	H	18	146.006	128.055	-20.577	1.00	91.16	HS8
ATOM	41112	NH1	ARG	H	18	144.893	128.736	-20.835	1.00	91.16	HS8
ATOM	41113	NH2	ARG	H	18	146.059	127.229	-19.540	1.00	91.16	HS8
ATOM	41114	C	ARG	H	18	148.697	132.664	-24.381	1.00	46.37	HS8
ATOM	41115	O	ARG	H	18	149.558	133.211	-23.685	1.00	46.37	HS8
ATOM	41116	N	VAL	H	19	148.444	133.046	-25.630	1.00	47.89	HS8
ATOM	41117	CA	VAL	H	19	149.166	134.171	-26.213	1.00	47.89	HS8
ATOM	41118	CB	VAL	H	19	149.550	133.918	-27.682	1.00	73.52	HS8
ATOM	41119	CG1	VAL	H	19	150.656	132.884	-27.756	1.00	73.52	HS8
ATOM	41120	CG2	VAL	H	19	148.343	133.446	-28.458	1.00	73.52	HS8
ATOM	41121	C	VAL	H	19	148.295	135.409	-26.111	1.00	47.89	HS8
ATOM	41122	O	VAL	H	19	148.549	136.415	-26.746	1.00	47.89	HS8
ATOM	41123	N	TYR	H	20	147.239	135.300	-25.320	1.00	35.27	HS8
ATOM	41124	CA	TYR	H	20	146.344	136.410	-25.060	1.00	35.27	HS8
ATOM	41125	CB	TYR	H	20	147.131	137.467	-24.319	1.00	40.34	HS8
ATOM	41126	CG	TYR	H	20	147.483	136.993	-22.949	1.00	40.34	HS8
ATOM	41127	CD1	TYR	H	20	146.697	137.339	-21.864	1.00	40.34	HS8
ATOM	41128	CE1	TYR	H	20	146.980	136.875	-20.584	1.00	40.34	HS8
ATOM	41129	CD2	TYR	H	20	148.578	136.161	-22.734	1.00	40.34	HS8
ATOM	41130	CE2	TYR	H	20	148.883	135.687	-21.453	1.00	40.34	HS8
ATOM	41131	CZ	TYR	H	20	148.073	136.052	-20.376	1.00	40.34	HS8
ATOM	41132	OH	TYR	H	20	148.344	135.619	-19.088	1.00	40.34	HS8
ATOM	41133	C	TYR	H	20	145.540	137.051	-26.187	1.00	35.27	HS8
ATOM	41134	O	TYR	H	20	145.113	138.212	-26.066	1.00	35.27	HS8
ATOM	41135	N	LYS	H	21	145.307	136.303	-27.264	1.00	41.92	HS8
ATOM	41136	CA	LYS	H	21	144.526	136.827	-28.381	1.00	41.92	HS8
ATOM	41137	CB	LYS	H	21	144.210	135.701	-29.369	1.00	78.73	HS8
ATOM	41138	CG	LYS	H	21	145.404	134.816	-29.677	1.00	78.73	HS8
ATOM	41139	CD	LYS	H	21	146.639	135.640	-30.044	1.00	78.73	HS8
ATOM	41140	CE	LYS	H	21	146.963	135.573	-31.532	1.00	78.73	HS8
ATOM	41141	NZ	LYS	H	21	145.858	136.095	-32.390	1.00	78.73	HS8
ATOM	41142	C	LYS	H	21	143.222	137.431	-27.840	1.00	41.92	HS8
ATOM	41143	O	LYS	H	21	142.756	137.036	-26.774	1.00	41.92	HS8
ATOM	41144	N	GLU	H	22	142.646	138.403	-28.542	1.00	55.54	HS8
ATOM	41145	CA	GLU	H	22	141.394	138.986	-28.081	1.00	55.54	HS8
ATOM	41146	CB	GLU	H	22	141.239	140.398	-28.628	1.00	136.29	HS8
ATOM	41147	CG	GLU	H	22	140.024	141.111	-28.086	1.00	136.29	HS8
ATOM	41148	CD	GLU	H	22	139.831	142.480	-28.703	1.00	136.29	HS8
ATOM	41149	OE1	GLU	H	22	139.701	142.559	-29.944	1.00	136.29	HS8
ATOM	41150	OE2	GLU	H	22	139.808	143.475	-27.946	1.00	136.29	HS8
ATOM	41151	C	GLU	H	22	140.244	138.089	-28.572	1.00	55.54	HS8
ATOM	41152	O	GLU	H	22	139.310	137.762	-27.831	1.00	55.54	HS8
ATOM	41153	N	SER	H	23	140.335	137.671	-29.828	1.00	54.97	HS8
ATOM	41154	CA	SER	H	23	139.333	136.814	-30.436	1.00	54.97	HS8
ATOM	41155	CB	SER	H	23	138.765	137.514	-31.673	1.00	69.89	HS8
ATOM	41156	OG	SER	H	23	137.661	136.815	-32.217	1.00	69.89	HS8
ATOM	41157	C	SER	H	23	140.025	135.499	-30.823	1.00	54.97	HS8
ATOM	41158	O	SER	H	23	141.093	135.183	-30.301	1.00	54.97	HS8
ATOM	41159	N	THR	H	24	139.421	134.744	-31.737	1.00	73.33	HS8
ATOM	41160	CA	THR	H	24	139.957	133.464	-32.205	1.00	73.33	HS8
ATOM	41161	CB	THR	H	24	140.471	132.577	-31.038	1.00	62.73	HS8
ATOM	41162	OG1	THR	H	24	140.991	131.344	-31.554	1.00	62.73	HS8
ATOM	41163	CG2	THR	H	24	139.349	132.256	-30.082	1.00	62.73	HS8
ATOM	41164	C	THR	H	24	138.824	132.727	-32.909	1.00	73.33	HS8
ATOM	41165	O	THR	H	24	137.694	132.708	-32.420	1.00	73.33	HS8
ATOM	41166	N	ASP	H	25	139.120	132.114	-34.048	1.00	54.20	HS8
ATOM	41167	CA	ASP	H	25	138.085	131.417	-34.787	1.00	54.20	HS8
ATOM	41168	CB	ASP	H	25	138.205	131.746	-36.261	1.00	72.86	HS8
ATOM	41169	CG	ASP	H	25	138.214	133.229	-36.505	1.00	72.86	HS8
ATOM	41170	OD1	ASP	H	25	137.519	133.943	-35.751	1.00	72.86	HS8
ATOM	41171	OD2	ASP	H	25	138.907	133.683	-37.442	1.00	72.86	HS8
ATOM	41172	C	ASP	H	25	138.099	129.923	-34.605	1.00	54.20	HS8
ATOM	41173	O	ASP	H	25	139.073	129.361	-34.125	1.00	54.20	HS8
ATOM	41174	N	VAL	H	26	136.983	129.297	-34.964	1.00	36.84	HS8
ATOM	41175	CA	VAL	H	26	136.822	127.851	-34.910	1.00	36.84	HS8
ATOM	41176	CB	VAL	H	26	136.535	127.312	-33.474	1.00	22.74	HS8
ATOM	41177	CG1	VAL	H	26	136.475	128.460	-32.495	1.00	22.74	HS8
ATOM	41178	CG2	VAL	H	26	135.233	126.497	-33.439	1.00	22.74	HS8
ATOM	41179	C	VAL	H	26	135.646	127.551	-35.803	1.00	36.84	HS8
ATOM	41180	O	VAL	H	26	134.622	128.215	-35.731	1.00	36.84	HS8



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ATOM	41181	N	PRO	H	27	135.797	126.556	-36.677	1.00	46.16	HS8
ATOM	41182	CD	PRO	H	27	137.046	125.786	-36.795	1.00	59.92	HS8
ATOM	41183	CA	PRO	H	27	134.808	126.078	-37.641	1.00	46.16	HS8
ATOM	41184	CB	PRO	H	27	135.476	124.839	-38.215	1.00	59.92	HS8
ATOM	41185	CG	PRO	H	27	136.917	125.186	-38.159	1.00	59.92	HS8
ATOM	41186	C	PRO	H	27	133.458	125.751	-36.988	1.00	46.16	HS8
ATOM	41187	O	PRO	H	27	133.379	124.908	-36.084	1.00	46.16	HS8
ATOM	41188	N	ALA	H	28	132.402	126.402	-37.475	1.00	63.44	HS8
ATOM	41189	CA	ALA	H	28	131.058	126.220	-36.944	1.00	63.44	HS8
ATOM	41190	CB	ALA	H	28	130.116	127.210	-37.618	1.00	172.23	HS8
ATOM	41191	C	ALA	H	28	130.456	124.805	-37.016	1.00	63.44	HS8
ATOM	41192	O	ALA	H	28	130.597	124.093	-38.009	1.00	63.44	HS8
ATOM	41193	N	SER	H	29	129.774	124.429	-35.938	1.00	52.21	HS8
ATOM	41194	CA	SER	H	29	129.082	123.149	-35.808	1.00	52.21	HS8
ATOM	41195	CB	SER	H	29	130.032	122.038	-35.346	1.00	51.96	HS8
ATOM	41196	OG	SER	H	29	130.260	122.074	-33.943	1.00	51.96	HS8
ATOM	41197	C	SER	H	29	128.080	123.426	-34.699	1.00	52.21	HS8
ATOM	41198	O	SER	H	29	128.429	124.114	-33.720	1.00	52.21	HS8
ATOM	41199	N	ARG	H	30	126.849	122.919	-34.834	1.00	46.63	HS8
ATOM	41200	CA	ARG	H	30	125.845	123.154	-33.791	1.00	46.63	HS8
ATOM	41201	CB	ARG	H	30	124.619	122.254	-33.977	1.00	115.94	HS8
ATOM	41202	CG	ARG	H	30	123.695	122.620	-35.137	1.00	115.94	HS8
ATOM	41203	CD	ARG	H	30	122.884	123.890	-34.881	1.00	115.94	HS8
ATOM	41204	NE	ARG	H	30	121.946	124.155	-35.976	1.00	115.94	HS8
ATOM	41205	CZ	ARG	H	30	121.261	125.287	-36.132	1.00	115.94	HS8
ATOM	41206	NH1	ARG	H	30	121.400	126.279	-35.263	1.00	115.94	HS8
ATOM	41207	NH2	ARG	H	30	120.438	125.430	-37.164	1.00	115.94	HS8
ATOM	41208	C	ARG	H	30	126.496	122.843	-32.444	1.00	46.63	HS8
ATOM	41209	O	ARG	H	30	126.635	123.721	-31.593	1.00	46.63	HS8
ATOM	41210	N	PHE	H	31	126.930	121.594	-32.280	1.00	41.21	HS8
ATOM	41211	CA	PHE	H	31	127.558	121.157	-31.044	1.00	41.21	HS8
ATOM	41212	CB	PHE	H	31	128.298	119.836	-31.247	1.00	51.84	HS8
ATOM	41213	CG	PHE	H	31	128.593	119.103	-29.965	1.00	51.84	HS8
ATOM	41214	CD1	PHE	H	31	128.467	119.734	-28.732	1.00	51.84	HS8
ATOM	41215	CD2	PHE	H	31	128.972	117.770	-29.985	1.00	51.84	HS8
ATOM	41216	CE1	PHE	H	31	128.711	119.038	-27.540	1.00	51.84	HS8
ATOM	41217	CE2	PHE	H	31	129.217	117.069	-28.797	1.00	51.84	HS8
ATOM	41218	CZ	PHE	H	31	129.085	117.705	-27.577	1.00	51.84	HS8
ATOM	41219	C	PHE	H	31	128.539	122.187	-30.511	1.00	41.21	HS8
ATOM	41220	O	PHE	H	31	128.403	122.656	-29.381	1.00	41.21	HS8
ATOM	41221	N	LYS	H	32	129.534	122.536	-31.315	1.00	37.25	HS8
ATOM	41222	CA	LYS	H	32	130.525	123.490	-30.862	1.00	37.25	HS8
ATOM	41223	CB	LYS	H	32	131.545	123.765	-31.973	1.00	56.95	HS8
ATOM	41224	CG	LYS	H	32	132.851	123.001	-31.798	1.00	56.95	HS8
ATOM	41225	CD	LYS	H	32	133.838	123.211	-32.950	1.00	56.95	HS8
ATOM	41226	CE	LYS	H	32	133.546	122.296	-34.154	1.00	56.95	HS8
ATOM	41227	NZ	LYS	H	32	134.628	122.273	-35.227	1.00	56.95	HS8
ATOM	41228	C	LYS	H	32	129.842	124.770	-30.398	1.00	37.25	HS8
ATOM	41229	O	LYS	H	32	130.179	125.324	-29.343	1.00	37.25	HS8
ATOM	41230	N	GLU	H	33	128.863	125.237	-31.167	1.00	52.43	HS8
ATOM	41231	CA	GLU	H	33	128.156	126.452	-30.787	1.00	52.43	HS8
ATOM	41232	CB	GLU	H	33	127.136	126.819	-31.861	1.00	69.69	HS8
ATOM	41233	CG	GLU	H	33	126.330	128.064	-31.569	1.00	69.69	HS8
ATOM	41234	CD	GLU	H	33	125.571	128.562	-32.790	1.00	69.69	HS8
ATOM	41235	OE1	GLU	H	33	124.923	127.746	-33.491	1.00	69.69	HS8
ATOM	41236	OE2	GLU	H	33	125.618	129.782	-33.038	1.00	69.69	HS8
ATOM	41237	C	GLU	H	33	127.484	126.234	-29.431	1.00	52.43	HS8
ATOM	41238	O	GLU	H	33	127.633	127.056	-28.533	1.00	52.43	HS8
ATOM	41239	N	GLU	H	34	126.767	125.120	-29.274	1.00	49.61	HS8
ATOM	41240	CA	GLU	H	34	126.118	124.803	-28.000	1.00	49.61	HS8
ATOM	41241	CB	GLU	H	34	125.557	123.383	-27.997	1.00	91.59	HS8
ATOM	41242	CG	GLU	H	34	124.231	123.251	-28.701	1.00	91.59	HS8
ATOM	41243	CD	GLU	H	34	123.156	124.130	-28.090	1.00	91.59	HS8
ATOM	41244	OE1	GLU	H	34	122.047	124.171	-28.655	1.00	91.59	HS8
ATOM	41245	OE2	GLU	H	34	123.409	124.778	-27.050	1.00	91.59	HS8
ATOM	41246	C	GLU	H	34	127.115	124.922	-26.861	1.00	49.61	HS8
ATOM	41247	O	GLU	H	34	126.885	125.643	-25.887	1.00	49.61	HS8
ATOM	41248	N	ILE	H	35	128.226	124.209	-26.991	1.00	51.22	HS8
ATOM	41249	CA	ILE	H	35	129.260	124.239	-25.977	1.00	51.22	HS8
ATOM	41250	CB	ILE	H	35	130.476	123.420	-26.448	1.00	30.75	HS8
ATOM	41251	CG2	ILE	H	35	131.599	123.460	-25.425	1.00	30.75	HS8
ATOM	41252	CG1	ILE	H	35	130.039	121.974	-26.638	1.00	30.75	HS8
ATOM	41253	CD1	ILE	H	35	131.148	121.050	-27.056	1.00	30.75	HS8
ATOM	41254	C	ILE	H	35	129.660	125.680	-25.633	1.00	51.22	HS8
ATOM	41255	O	ILE	H	35	129.691	126.061	-24.453	1.00	51.22	HS8
ATOM	41256	N	LEU	H	36	129.937	126.490	-26.650	1.00	43.40	HS8
ATOM	41257	CA	LEU	H	36	130.329	127.866	-26.390	1.00	43.40	HS8



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ATOM	41258	CB	LEU	H	36	130.585	128.611	-27.700	1.00	30.26	HS8
ATOM	41259	CG	LEU	H	36	131.815	128.184	-28.514	1.00	30.26	HS8
ATOM	41260	CD1	LEU	H	36	131.494	128.291	-29.980	1.00	30.26	HS8
ATOM	41261	CD2	LEU	H	36	133.022	129.040	-28.157	1.00	30.26	HS8
ATOM	41262	C	LEU	H	36	129.254	128.582	-25.580	1.00	43.40	HS8
ATOM	41263	O	LEU	H	36	129.580	129.407	-24.707	1.00	43.40	HS8
ATOM	41264	N	ARG	H	37	127.982	128.258	-25.852	1.00	37.07	HS8
ATOM	41265	CA	ARG	H	37	126.857	128.871	-25.139	1.00	37.07	HS8
ATOM	41266	CB	ARG	H	37	125.532	128.236	-25.567	1.00	93.15	HS8
ATOM	41267	CG	ARG	H	37	124.384	129.226	-25.791	1.00	93.15	HS8
ATOM	41268	CD	ARG	H	37	123.038	128.497	-25.814	1.00	93.15	HS8
ATOM	41269	NE	ARG	H	37	122.018	129.189	-26.603	1.00	93.15	HS8
ATOM	41270	CZ	ARG	H	37	120.833	128.658	-26.909	1.00	93.15	HS8
ATOM	41271	NH1	ARG	H	37	120.536	127.439	-26.479	1.00	93.15	HS8
ATOM	41272	NH2	ARG	H	37	119.956	129.316	-27.667	1.00	93.15	HS8
ATOM	41273	C	ARG	H	37	127.060	128.702	-23.621	1.00	37.07	HS8
ATOM	41274	O	ARG	H	37	126.834	129.644	-22.854	1.00	37.07	HS8
ATOM	41275	N	ILE	H	38	127.484	127.512	-23.185	1.00	42.12	HS8
ATOM	41276	CA	ILE	H	38	127.735	127.296	-21.761	1.00	42.12	HS8
ATOM	41277	CB	ILE	H	38	127.990	125.809	-21.397	1.00	42.11	HS8
ATOM	41278	CG2	ILE	H	38	128.811	125.700	-20.126	1.00	42.11	HS8
ATOM	41279	CG1	ILE	H	38	126.670	125.112	-21.101	1.00	42.11	HS8
ATOM	41280	CD1	ILE	H	38	125.670	125.238	-22.215	1.00	42.11	HS8
ATOM	41281	C	ILE	H	38	128.982	128.069	-21.411	1.00	42.12	HS8
ATOM	41282	O	ILE	H	38	129.039	128.759	-20.385	1.00	42.12	HS8
ATOM	41283	N	LEU	H	39	129.988	127.953	-22.266	1.00	46.26	HS8
ATOM	41284	CA	LEU	H	39	131.227	128.651	-21.991	1.00	46.26	HS8
ATOM	41285	CB	LEU	H	39	132.213	128.526	-23.160	1.00	48.91	HS8
ATOM	41286	CG	LEU	H	39	133.154	127.321	-23.080	1.00	48.91	HS8
ATOM	41287	CD1	LEU	H	39	133.712	127.168	-21.642	1.00	48.91	HS8
ATOM	41288	CD2	LEU	H	39	132.378	126.090	-23.489	1.00	48.91	HS8
ATOM	41289	C	LEU	H	39	130.959	130.107	-21.694	1.00	46.26	HS8
ATOM	41290	O	LEU	H	39	131.518	130.677	-20.755	1.00	46.26	HS8
ATOM	41291	N	ALA	H	40	130.088	130.712	-22.483	1.00	42.29	HS8
ATOM	41292	CA	ALA	H	40	129.797	132.110	-22.263	1.00	42.29	HS8
ATOM	41293	CB	ALA	H	40	129.072	132.671	-23.447	1.00	80.43	HS8
ATOM	41294	C	ALA	H	40	128.970	132.295	-20.998	1.00	42.29	HS8
ATOM	41295	O	ALA	H	40	129.354	133.038	-20.095	1.00	42.29	HS8
ATOM	41296	N	ARG	H	41	127.832	131.615	-20.934	1.00	41.84	HS8
ATOM	41297	CA	ARG	H	41	126.974	131.723	-19.772	1.00	41.84	HS8
ATOM	41298	CB	ARG	H	41	125.897	130.647	-19.806	1.00	71.18	HS8
ATOM	41299	CG	ARG	H	41	124.850	130.790	-18.719	1.00	71.18	HS8
ATOM	41300	CD	ARG	H	41	123.984	129.561	-18.681	1.00	71.18	HS8
ATOM	41301	NE	ARG	H	41	123.446	129.246	-19.999	1.00	71.18	HS8
ATOM	41302	CZ	ARG	H	41	123.244	128.005	-20.436	1.00	71.18	HS8
ATOM	41303	NH1	ARG	H	41	123.542	126.974	-19.651	1.00	71.18	HS8
ATOM	41304	NH2	ARG	H	41	122.753	127.790	-21.655	1.00	71.18	HS8
ATOM	41305	C	ARG	H	41	127.800	131.580	-18.501	1.00	41.84	HS8
ATOM	41306	O	ARG	H	41	127.681	132.388	-17.590	1.00	41.84	HS8
ATOM	41307	N	GLU	H	42	128.652	130.565	-18.430	1.00	42.63	HS8
ATOM	41308	CA	GLU	H	42	129.446	130.389	-17.227	1.00	42.63	HS8
ATOM	41309	CB	GLU	H	42	130.081	129.014	-17.234	1.00	83.24	HS8
ATOM	41310	CG	GLU	H	42	129.108	127.945	-16.811	1.00	83.24	HS8
ATOM	41311	CD	GLU	H	42	128.518	128.233	-15.450	1.00	83.24	HS8
ATOM	41312	OE1	GLU	H	42	129.290	128.619	-14.544	1.00	83.24	HS8
ATOM	41313	OE2	GLU	H	42	127.288	128.069	-15.288	1.00	83.24	HS8
ATOM	41314	C	GLU	H	42	130.495	131.480	-17.016	1.00	42.63	HS8
ATOM	41315	O	GLU	H	42	131.233	131.482	-16.020	1.00	42.63	HS8
ATOM	41316	N	GLY	H	43	130.557	132.405	-17.963	1.00	50.89	HS8
ATOM	41317	CA	GLY	H	43	131.481	133.517	-17.853	1.00	50.89	HS8
ATOM	41318	C	GLY	H	43	132.942	133.253	-18.140	1.00	50.89	HS8
ATOM	41319	O	GLY	H	43	133.795	133.961	-17.607	1.00	50.89	HS8
ATOM	41320	N	PHE	H	44	133.233	132.260	-18.982	1.00	46.31	HS8
ATOM	41321	CA	PHE	H	44	134.612	131.905	-19.343	1.00	46.31	HS8
ATOM	41322	CB	PHE	H	44	134.727	130.397	-19.578	1.00	48.35	HS8
ATOM	41323	CG	PHE	H	44	134.759	129.598	-18.310	1.00	48.35	HS8
ATOM	41324	CD1	PHE	H	44	135.838	129.694	-17.447	1.00	48.35	HS8
ATOM	41325	CD2	PHE	H	44	133.705	128.764	-17.971	1.00	48.35	HS8
ATOM	41326	CE1	PHE	H	44	135.867	128.971	-16.267	1.00	48.35	HS8
ATOM	41327	CE2	PHE	H	44	133.723	128.037	-16.794	1.00	48.35	HS8
ATOM	41328	CZ	PHE	H	44	134.805	128.140	-15.942	1.00	48.35	HS8
ATOM	41329	C	PHE	H	44	135.082	132.648	-20.574	1.00	46.31	HS8
ATOM	41330	O	PHE	H	44	136.267	132.714	-20.862	1.00	46.31	HS8
ATOM	41331	N	ILE	H	45	134.130	133.197	-21.304	1.00	52.93	HS8
ATOM	41332	CA	ILE	H	45	134.443	133.950	-22.493	1.00	52.93	HS8
ATOM	41333	CB	ILE	H	45	134.224	133.129	-23.773	1.00	27.25	HS8
ATOM	41334	CG2	ILE	H	45	134.974	131.820	-23.660	1.00	27.25	HS8



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ATOM	41335	CG1	ILE	H	45	132.737	132.871	-24.001	1.00	27.25	HS8
ATOM	41336	CD1	ILE	H	45	132.471	131.868	-25.107	1.00	27.25	HS8
ATOM	41337	C	ILE	H	45	133.502	135.115	-22.511	1.00	52.93	HS8
ATOM	41338	O	ILE	H	45	132.442	135.071	-21.892	1.00	52.93	HS8
ATOM	41339	N	LYS	H	46	133.890	136.171	-23.206	1.00	47.44	HS8
ATOM	41340	CA	LYS	H	46	133.028	137.321	-23.287	1.00	47.44	HS8
ATOM	41341	CB	LYS	H	46	133.712	138.474	-24.022	1.00	58.23	HS8
ATOM	41342	CG	LYS	H	46	134.873	139.144	-23.287	1.00	58.23	HS8
ATOM	41343	CD	LYS	H	46	134.936	140.630	-23.657	1.00	58.23	HS8
ATOM	41344	CE	LYS	H	46	136.200	141.308	-23.174	1.00	58.23	HS8
ATOM	41345	NZ	LYS	H	46	137.369	140.849	-23.970	1.00	58.23	HS8
ATOM	41346	C	LYS	H	46	131.816	136.881	-24.073	1.00	47.44	HS8
ATOM	41347	O	LYS	H	46	130.764	137.482	-23.970	1.00	47.44	HS8
ATOM	41348	N	GLY	H	47	131.957	135.815	-24.848	1.00	43.56	HS8
ATOM	41349	CA	GLY	H	47	130.854	135.354	-25.668	1.00	43.56	HS8
ATOM	41350	C	GLY	H	47	131.388	135.065	-27.061	1.00	43.56	HS8
ATOM	41351	O	GLY	H	47	132.604	135.036	-27.259	1.00	43.56	HS8
ATOM	41352	N	TYR	H	48	130.523	134.897	-28.050	1.00	41.05	HS8
ATOM	41353	CA	TYR	H	48	131.032	134.555	-29.367	1.00	41.05	HS8
ATOM	41354	CB	TYR	H	48	131.246	133.071	-29.388	1.00	50.94	HS8
ATOM	41355	CG	TYR	H	48	129.919	132.376	-29.536	1.00	50.94	HS8
ATOM	41356	CD1	TYR	H	48	129.378	132.169	-30.803	1.00	50.94	HS8
ATOM	41357	CE1	TYR	H	48	128.131	131.629	-30.970	1.00	50.94	HS8
ATOM	41358	CD2	TYR	H	48	129.164	132.013	-28.423	1.00	50.94	HS8
ATOM	41359	CE2	TYR	H	48	127.902	131.463	-28.577	1.00	50.94	HS8
ATOM	41360	CZ	TYR	H	48	127.389	131.272	-29.866	1.00	50.94	HS8
ATOM	41361	OH	TYR	H	48	126.143	130.711	-30.094	1.00	50.94	HS8
ATOM	41362	C	TYR	H	48	129.998	134.861	-30.424	1.00	41.05	HS8
ATOM	41363	O	TYR	H	48	128.811	134.843	-30.112	1.00	41.05	HS8
ATOM	41364	N	GLU	H	49	130.425	135.073	-31.672	1.00	40.92	HS8
ATOM	41365	CA	GLU	H	49	129.481	135.337	-32.768	1.00	40.92	HS8
ATOM	41366	CB	GLU	H	49	129.500	136.818	-33.146	1.00	129.68	HS8
ATOM	41367	CG	GLU	H	49	130.852	137.343	-33.543	1.00	129.68	HS8
ATOM	41368	CD	GLU	H	49	130.789	138.792	-33.979	1.00	129.68	HS8
ATOM	41369	OE1	GLU	H	49	129.969	139.100	-34.869	1.00	129.68	HS8
ATOM	41370	OE2	GLU	H	49	131.556	139.622	-33.441	1.00	129.68	HS8
ATOM	41371	C	GLU	H	49	129.729	134.468	-34.014	1.00	40.92	HS8
ATOM	41372	O	GLU	H	49	130.850	134.010	-34.252	1.00	40.92	HS8
ATOM	41373	N	ARG	H	50	128.668	134.217	-34.783	1.00	60.96	HS8
ATOM	41374	CA	ARG	H	50	128.740	133.412	-36.009	1.00	60.96	HS8
ATOM	41375	CB	ARG	H	50	127.348	133.011	-36.479	1.00	71.82	HS8
ATOM	41376	CG	ARG	H	50	126.645	131.985	-35.656	1.00	71.82	HS8
ATOM	41377	CD	ARG	H	50	125.381	131.549	-36.376	1.00	71.82	HS8
ATOM	41378	NE	ARG	H	50	124.777	130.376	-35.751	1.00	71.82	HS8
ATOM	41379	CZ	ARG	H	50	123.694	129.745	-36.206	1.00	71.82	HS8
ATOM	41380	NH1	ARG	H	50	123.077	130.169	-37.307	1.00	71.82	HS8
ATOM	41381	NH2	ARG	H	50	123.223	128.686	-35.551	1.00	71.82	HS8
ATOM	41382	C	ARG	H	50	129.368	134.229	-37.123	1.00	60.96	HS8
ATOM	41383	O	ARG	H	50	128.728	135.122	-37.664	1.00	60.96	HS8
ATOM	41384	N	VAL	H	51	130.598	133.921	-37.500	1.00	51.96	HS8
ATOM	41385	CA	VAL	H	51	131.240	134.696	-38.550	1.00	51.96	HS8
ATOM	41386	CB	VAL	H	51	132.595	135.225	-38.077	1.00	81.68	HS8
ATOM	41387	CG1	VAL	H	51	133.133	136.250	-39.054	1.00	81.68	HS8
ATOM	41388	CG2	VAL	H	51	132.440	135.843	-36.718	1.00	81.68	HS8
ATOM	41389	C	VAL	H	51	131.445	133.904	-39.824	1.00	51.96	HS8
ATOM	41390	O	VAL	H	51	131.111	132.718	-39.894	1.00	51.96	HS8
ATOM	41391	N	ASP	H	52	131.980	134.581	-40.837	1.00	78.81	HS8
ATOM	41392	CA	ASP	H	52	132.264	133.970	-42.126	1.00	78.81	HS8
ATOM	41393	CB	ASP	H	52	131.274	134.455	-43.185	1.00	83.05	HS8
ATOM	41394	CG	ASP	H	52	130.388	133.341	-43.704	1.00	83.05	HS8
ATOM	41395	OD1	ASP	H	52	129.380	133.010	-43.047	1.00	83.05	HS8
ATOM	41396	OD2	ASP	H	52	130.712	132.783	-44.771	1.00	83.05	HS8
ATOM	41397	C	ASP	H	52	133.683	134.296	-42.580	1.00	78.81	HS8
ATOM	41398	O	ASP	H	52	133.939	135.360	-43.143	1.00	78.81	HS8
ATOM	41399	N	VAL	H	53	134.604	133.375	-42.320	1.00	55.14	HS8
ATOM	41400	CA	VAL	H	53	135.994	133.545	-42.718	1.00	55.14	HS8
ATOM	41401	CB	VAL	H	53	136.967	133.010	-41.643	1.00	77.85	HS8
ATOM	41402	CG1	VAL	H	53	138.256	132.543	-42.286	1.00	77.85	HS8
ATOM	41403	CG2	VAL	H	53	137.271	134.110	-40.638	1.00	77.85	HS8
ATOM	41404	C	VAL	H	53	136.221	132.803	-44.023	1.00	55.14	HS8
ATOM	41405	O	VAL	H	53	135.935	131.612	-44.136	1.00	55.14	HS8
ATOM	41406	N	ASP	H	54	136.731	133.534	-45.004	1.00	78.36	HS8
ATOM	41407	CA	ASP	H	54	137.002	132.996	-46.327	1.00	78.36	HS8
ATOM	41408	CB	ASP	H	54	138.281	132.151	-46.325	1.00	198.94	HS8
ATOM	41409	CG	ASP	H	54	138.675	131.690	-47.724	1.00	198.94	HS8
ATOM	41410	OD1	ASP	H	54	138.917	132.554	-48.592	1.00	198.94	HS8
ATOM	41411	OD2	ASP	H	54	138.735	130.465	-47.959	1.00	198.94	HS8



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ATOM	41412	C	ASP	H	54	135.855	132.174	-46.896	1.00	78.36	HS8
ATOM	41413	O	ASP	H	54	136.076	131.138	-47.520	1.00	78.36	HS8
ATOM	41414	N	GLY	H	55	134.627	132.621	-46.667	1.00	51.49	HS8
ATOM	41415	CA	GLY	H	55	133.493	131.916	-47.237	1.00	51.49	HS8
ATOM	41416	C	GLY	H	55	132.882	130.761	-46.475	1.00	51.49	HS8
ATOM	41417	O	GLY	H	55	131.756	130.341	-46.767	1.00	51.49	HS8
ATOM	41418	N	LYS	H	56	133.615	130.222	-45.513	1.00	58.61	HS8
ATOM	41419	CA	LYS	H	56	133.074	129.133	-44.728	1.00	58.61	HS8
ATOM	41420	CB	LYS	H	56	134.065	127.976	-44.655	1.00	89.11	HS8
ATOM	41421	CG	LYS	H	56	134.172	127.191	-45.947	1.00	89.11	HS8
ATOM	41422	CD	LYS	H	56	134.686	128.061	-47.051	1.00	89.11	HS8
ATOM	41423	CE	LYS	H	56	134.847	127.282	-48.322	1.00	89.11	HS8
ATOM	41424	NZ	LYS	H	56	135.468	128.159	-49.355	1.00	89.11	HS8
ATOM	41425	C	LYS	H	56	132.735	129.649	-43.342	1.00	58.61	HS8
ATOM	41426	O	LYS	H	56	133.353	130.588	-42.838	1.00	58.61	HS8
ATOM	41427	N	PRO	H	57	131.736	129.039	-42.711	1.00	46.67	HS8
ATOM	41428	CD	PRO	H	57	131.089	127.827	-43.237	1.00	40.95	HS8
ATOM	41429	CA	PRO	H	57	131.225	129.363	-41.376	1.00	46.67	HS8
ATOM	41430	CB	PRO	H	57	130.028	128.445	-41.248	1.00	40.95	HS8
ATOM	41431	CG	PRO	H	57	130.500	127.225	-41.986	1.00	40.95	HS8
ATOM	41432	C	PRO	H	57	132.195	129.163	-40.225	1.00	46.67	HS8
ATOM	41433	O	PRO	H	57	132.863	128.135	-40.135	1.00	46.67	HS8
ATOM	41434	N	TYR	H	58	132.253	130.152	-39.340	1.00	48.58	HS8
ATOM	41435	CA	TYR	H	58	133.110	130.088	-38.164	1.00	48.58	HS8
ATOM	41436	CB	TYR	H	58	134.427	130.835	-38.396	1.00	54.46	HS8
ATOM	41437	CG	TYR	H	58	135.365	130.049	-39.254	1.00	54.46	HS8
ATOM	41438	CD1	TYR	H	58	135.256	130.088	-40.642	1.00	54.46	HS8
ATOM	41439	CE1	TYR	H	58	136.021	129.262	-41.449	1.00	54.46	HS8
ATOM	41440	CD2	TYR	H	58	136.278	129.163	-38.685	1.00	54.46	HS8
ATOM	41441	CE2	TYR	H	58	137.049	128.324	-39.481	1.00	54.46	HS8
ATOM	41442	CZ	TYR	H	58	136.911	128.377	-40.868	1.00	54.46	HS8
ATOM	41443	OH	TYR	H	58	137.631	127.528	-41.680	1.00	54.46	HS8
ATOM	41444	C	TYR	H	58	132.416	130.665	-36.950	1.00	48.58	HS8
ATOM	41445	O	TYR	H	58	131.301	131.170	-37.034	1.00	48.58	HS8
ATOM	41446	N	LEU	H	59	133.084	130.577	-35.813	1.00	41.22	HS8
ATOM	41447	CA	LEU	H	59	132.549	131.115	-34.586	1.00	41.22	HS8
ATOM	41448	CB	LEU	H	59	132.133	129.981	-33.647	1.00	42.94	HS8
ATOM	41449	CG	LEU	H	59	130.952	129.100	-34.062	1.00	42.94	HS8
ATOM	41450	CD1	LEU	H	59	130.872	127.859	-33.197	1.00	42.94	HS8
ATOM	41451	CD2	LEU	H	59	129.673	129.898	-33.933	1.00	42.94	HS8
ATOM	41452	C	LEU	H	59	133.675	131.898	-33.953	1.00	41.22	HS8
ATOM	41453	O	LEU	H	59	134.678	131.296	-33.552	1.00	41.22	HS8
ATOM	41454	N	ARG	H	60	133.551	133.226	-33.904	1.00	42.31	HS8
ATOM	41455	CA	ARG	H	60	134.579	134.036	-33.248	1.00	42.31	HS8
ATOM	41456	CB	ARG	H	60	134.306	135.530	-33.362	1.00	62.85	HS8
ATOM	41457	CG	ARG	H	60	134.758	136.180	-34.611	1.00	62.85	HS8
ATOM	41458	CD	ARG	H	60	136.247	136.264	-34.693	1.00	62.85	HS8
ATOM	41459	NE	ARG	H	60	136.607	136.273	-36.100	1.00	62.85	HS8
ATOM	41460	CZ	ARG	H	60	136.127	137.150	-36.969	1.00	62.85	HS8
ATOM	41461	NH1	ARG	H	60	135.283	138.089	-36.557	1.00	62.85	HS8
ATOM	41462	NH2	ARG	H	60	136.458	137.068	-38.250	1.00	62.85	HS8
ATOM	41463	C	ARG	H	60	134.386	133.684	-31.795	1.00	42.31	HS8
ATOM	41464	O	ARG	H	60	133.262	133.422	-31.373	1.00	42.31	HS8
ATOM	41465	N	VAL	H	61	135.455	133.672	-31.018	1.00	46.38	HS8
ATOM	41466	CA	VAL	H	61	135.303	133.377	-29.608	1.00	46.38	HS8
ATOM	41467	CB	VAL	H	61	135.870	131.995	-29.280	1.00	33.78	HS8
ATOM	41468	CG1	VAL	H	61	135.654	131.660	-27.804	1.00	33.78	HS8
ATOM	41469	CG2	VAL	H	61	135.179	130.965	-30.161	1.00	33.78	HS8
ATOM	41470	C	VAL	H	61	136.013	134.488	-28.863	1.00	46.38	HS8
ATOM	41471	O	VAL	H	61	137.237	134.576	-28.829	1.00	46.38	HS8
ATOM	41472	N	TYR	H	62	135.221	135.376	-28.297	1.00	43.60	HS8
ATOM	41473	CA	TYR	H	62	135.774	136.500	-27.587	1.00	43.60	HS8
ATOM	41474	CB	TYR	H	62	134.691	137.551	-27.468	1.00	39.91	HS8
ATOM	41475	CG	TYR	H	62	134.445	138.129	-28.832	1.00	39.91	HS8
ATOM	41476	CD1	TYR	H	62	135.187	139.212	-29.281	1.00	39.91	HS8
ATOM	41477	CE1	TYR	H	62	135.099	139.656	-30.569	1.00	39.91	HS8
ATOM	41478	CD2	TYR	H	62	133.586	137.508	-29.725	1.00	39.91	HS8
ATOM	41479	CE2	TYR	H	62	133.485	137.947	-31.027	1.00	39.91	HS8
ATOM	41480	CZ	TYR	H	62	134.254	139.024	-31.446	1.00	39.91	HS8
ATOM	41481	OH	TYR	H	62	134.227	139.451	-32.762	1.00	39.91	HS8
ATOM	41482	C	TYR	H	62	136.360	136.104	-26.261	1.00	43.60	HS8
ATOM	41483	O	TYR	H	62	135.647	135.829	-25.301	1.00	43.60	HS8
ATOM	41484	N	LEU	H	63	137.683	136.059	-26.222	1.00	49.15	HS8
ATOM	41485	CA	LEU	H	63	138.374	135.656	-25.014	1.00	49.15	HS8
ATOM	41486	CB	LEU	H	63	139.816	135.295	-25.352	1.00	42.50	HS8
ATOM	41487	CG	LEU	H	63	139.922	133.852	-25.847	1.00	42.50	HS8
ATOM	41488	CD1	LEU	H	63	138.825	133.549	-26.838	1.00	42.50	HS8



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ATOM	41489	CD2	LEU	H	63	141.282	133.628	-26.461	1.00	42.50	HS8
ATOM	41490	C	LEU	H	63	138.303	136.678	-23.894	1.00	49.15	HS8
ATOM	41491	O	LEU	H	63	138.159	137.880	-24.134	1.00	49.15	HS8
ATOM	41492	N	LYS	H	64	138.421	136.168	-22.671	1.00	42.60	HS8
ATOM	41493	CA	LYS	H	64	138.315	136.951	-21.435	1.00	42.60	HS8
ATOM	41494	CB	LYS	H	64	137.014	136.521	-20.746	1.00	66.06	HS8
ATOM	41495	CG	LYS	H	64	136.540	137.295	-19.553	1.00	66.06	HS8
ATOM	41496	CD	LYS	H	64	135.204	136.708	-19.148	1.00	66.06	HS8
ATOM	41497	CE	LYS	H	64	134.675	137.319	-17.877	1.00	66.06	HS8
ATOM	41498	NZ	LYS	H	64	133.417	136.626	-17.485	1.00	66.06	HS8
ATOM	41499	C	LYS	H	64	139.530	136.684	-20.539	1.00	42.60	HS8
ATOM	41500	O	LYS	H	64	139.950	135.542	-20.377	1.00	42.60	HS8
ATOM	41501	N	TYR	H	65	140.085	137.738	-19.957	1.00	39.01	HS8
ATOM	41502	CA	TYR	H	65	141.272	137.599	-19.125	1.00	39.01	HS8
ATOM	41503	CB	TYR	H	65	142.516	138.053	-19.883	1.00	47.98	HS8
ATOM	41504	CG	TYR	H	65	142.730	137.381	-21.208	1.00	47.98	HS8
ATOM	41505	CD1	TYR	H	65	141.986	137.744	-22.332	1.00	47.98	HS8
ATOM	41506	CE1	TYR	H	65	142.215	137.152	-23.579	1.00	47.98	HS8
ATOM	41507	CD2	TYR	H	65	143.702	136.406	-21.357	1.00	47.98	HS8
ATOM	41508	CE2	TYR	H	65	143.943	135.810	-22.590	1.00	47.98	HS8
ATOM	41509	CZ	TYR	H	65	143.200	136.188	-23.696	1.00	47.98	HS8
ATOM	41510	OH	TYR	H	65	143.468	135.603	-24.910	1.00	47.98	HS8
ATOM	41511	C	TYR	H	65	141.175	138.453	-17.892	1.00	39.01	HS8
ATOM	41512	O	TYR	H	65	140.462	139.451	-17.890	1.00	39.01	HS8
ATOM	41513	N	GLY	H	66	141.924	138.075	-16.859	1.00	49.26	HS8
ATOM	41514	CA	GLY	H	66	141.942	138.840	-15.625	1.00	49.26	HS8
ATOM	41515	C	GLY	H	66	142.610	140.184	-15.853	1.00	49.26	HS8
ATOM	41516	O	GLY	H	66	142.933	140.524	-16.986	1.00	49.26	HS8
ATOM	41517	N	PRO	H	67	142.833	140.986	-14.811	1.00	49.66	HS8
ATOM	41518	CD	PRO	H	67	142.343	140.955	-13.422	1.00	38.75	HS8
ATOM	41519	CA	PRO	H	67	143.477	142.265	-15.105	1.00	49.66	HS8
ATOM	41520	CB	PRO	H	67	143.012	143.135	-13.956	1.00	38.75	HS8
ATOM	41521	CG	PRO	H	67	143.026	142.171	-12.826	1.00	38.75	HS8
ATOM	41522	C	PRO	H	67	144.991	142.162	-15.159	1.00	49.66	HS8
ATOM	41523	O	PRO	H	67	145.562	141.098	-14.879	1.00	49.66	HS8
ATOM	41524	N	ARG	H	68	145.621	143.281	-15.522	1.00	46.17	HS8
ATOM	41525	CA	ARG	H	68	147.077	143.398	-15.609	1.00	46.17	HS8
ATOM	41526	CB	ARG	H	68	147.447	144.791	-16.091	1.00	84.26	HS8
ATOM	41527	CG	ARG	H	68	148.924	145.024	-16.304	1.00	84.26	HS8
ATOM	41528	CD	ARG	H	68	149.090	146.342	-17.025	1.00	84.26	HS8
ATOM	41529	NE	ARG	H	68	150.431	146.576	-17.540	1.00	84.26	HS8
ATOM	41530	CZ	ARG	H	68	151.513	146.656	-16.783	1.00	84.26	HS8
ATOM	41531	NH1	ARG	H	68	151.419	146.512	-15.464	1.00	84.26	HS8
ATOM	41532	NH2	ARG	H	68	152.686	146.909	-17.347	1.00	84.26	HS8
ATOM	41533	C	ARG	H	68	147.655	143.164	-14.219	1.00	46.17	HS8
ATOM	41534	O	ARG	H	68	146.949	143.346	-13.233	1.00	46.17	HS8
ATOM	41535	N	ARG	H	69	148.925	142.774	-14.125	1.00	58.24	HS8
ATOM	41536	CA	ARG	H	69	149.506	142.508	-12.815	1.00	58.24	HS8
ATOM	41537	CB	ARG	H	69	149.830	141.022	-12.687	1.00	114.60	HS8
ATOM	41538	CG	ARG	H	69	148.632	140.119	-12.941	1.00	114.60	HS8
ATOM	41539	CD	ARG	H	69	148.952	138.695	-12.555	1.00	114.60	HS8
ATOM	41540	NE	ARG	H	69	150.206	138.253	-13.158	1.00	114.60	HS8
ATOM	41541	CZ	ARG	H	69	150.789	137.089	-12.900	1.00	114.60	HS8
ATOM	41542	NH1	ARG	H	69	150.227	136.248	-12.044	1.00	114.60	HS8
ATOM	41543	NH2	ARG	H	69	151.931	136.766	-13.494	1.00	114.60	HS8
ATOM	41544	C	ARG	H	69	150.721	143.347	-12.423	1.00	58.24	HS8
ATOM	41545	O	ARG	H	69	151.173	144.209	-13.182	1.00	58.24	HS8
ATOM	41546	N	GLN	H	70	151.237	143.075	-11.224	1.00	67.68	HS8
ATOM	41547	CA	GLN	H	70	152.365	143.800	-10.642	1.00	67.68	HS8
ATOM	41548	CB	GLN	H	70	152.100	144.035	-9.157	1.00	97.06	HS8
ATOM	41549	CG	GLN	H	70	150.919	144.913	-8.874	1.00	97.06	HS8
ATOM	41550	CD	GLN	H	70	151.126	146.301	-9.405	1.00	97.06	HS8
ATOM	41551	OE1	GLN	H	70	152.124	146.950	-9.093	1.00	97.06	HS8
ATOM	41552	NE2	GLN	H	70	150.187	146.773	-10.215	1.00	97.06	HS8
ATOM	41553	C	GLN	H	70	153.718	143.125	-10.771	1.00	67.68	HS8
ATOM	41554	O	GLN	H	70	153.800	141.906	-10.942	1.00	67.68	HS8
ATOM	41555	N	GLY	H	71	154.774	143.936	-10.651	1.00	68.43	HS8
ATOM	41556	CA	GLY	H	71	156.144	143.447	-10.731	1.00	68.43	HS8
ATOM	41557	C	GLY	H	71	156.499	142.779	-12.044	1.00	68.43	HS8
ATOM	41558	O	GLY	H	71	155.947	143.110	-13.095	1.00	68.43	HS8
ATOM	41559	N	PRO	H	72	157.440	141.832	-12.024	1.00	61.63	HS8
ATOM	41560	CD	PRO	H	72	158.284	141.358	-10.916	1.00	37.67	HS8
ATOM	41561	CA	PRO	H	72	157.795	141.169	-13.280	1.00	61.63	HS8
ATOM	41562	CB	PRO	H	72	158.947	140.247	-12.878	1.00	37.67	HS8
ATOM	41563	CG	PRO	H	72	158.721	140.005	-11.417	1.00	37.67	HS8
ATOM	41564	C	PRO	H	72	156.611	140.413	-13.863	1.00	61.63	HS8
ATOM	41565	O	PRO	H	72	155.738	139.932	-13.135	1.00	61.63	HS8



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ATOM	41566	N	ASP	H	73	156.589	140.312	-15.183	1.00	72.95	HS8
ATOM	41567	CA	ASP	H	73	155.510	139.625	-15.881	1.00	72.95	HS8
ATOM	41568	CB	ASP	H	73	155.556	138.121	-15.636	1.00	68.84	HS8
ATOM	41569	CG	ASP	H	73	154.526	137.377	-16.467	1.00	68.84	HS8
ATOM	41570	OD1	ASP	H	73	154.432	136.137	-16.343	1.00	68.84	HS8
ATOM	41571	OD2	ASP	H	73	153.810	138.037	-17.256	1.00	68.84	HS8
ATOM	41572	C	ASP	H	73	154.133	140.123	-15.477	1.00	72.95	HS8
ATOM	41573	O	ASP	H	73	153.479	139.524	-14.626	1.00	72.95	HS8
ATOM	41574	N	PRO	H	74	153.670	141.217	-16.097	1.00	58.81	HS8
ATOM	41575	CD	PRO	H	74	154.391	142.083	-17.048	1.00	40.90	HS8
ATOM	41576	CA	PRO	H	74	152.361	141.784	-15.793	1.00	58.81	HS8
ATOM	41577	CB	PRO	H	74	152.478	143.198	-16.332	1.00	40.90	HS8
ATOM	41578	CG	PRO	H	74	153.296	142.989	-17.559	1.00	40.90	HS8
ATOM	41579	C	PRO	H	74	151.227	141.024	-16.458	1.00	58.81	HS8
ATOM	41580	O	PRO	H	74	150.071	141.408	-16.317	1.00	58.81	HS8
ATOM	41581	N	ARG	H	75	151.542	139.953	-17.185	1.00	59.33	HS8
ATOM	41582	CA	ARG	H	75	150.486	139.198	-17.852	1.00	59.33	HS8
ATOM	41583	CB	ARG	H	75	151.029	137.972	-18.570	1.00	53.12	HS8
ATOM	41584	CG	ARG	H	75	151.499	138.284	-19.967	1.00	53.12	HS8
ATOM	41585	CD	ARG	H	75	152.106	137.062	-20.586	1.00	53.12	HS8
ATOM	41586	NE	ARG	H	75	153.085	136.459	-19.687	1.00	53.12	HS8
ATOM	41587	CZ	ARG	H	75	153.634	135.268	-19.889	1.00	53.12	HS8
ATOM	41588	NH1	ARG	H	75	153.300	134.560	-20.969	1.00	53.12	HS8
ATOM	41589	NH2	ARG	H	75	154.484	134.772	-18.998	1.00	53.12	HS8
ATOM	41590	C	ARG	H	75	149.359	138.787	-16.930	1.00	59.33	HS8
ATOM	41591	O	ARG	H	75	149.560	138.265	-15.840	1.00	59.33	HS8
ATOM	41592	N	PRO	H	76	148.140	139.027	-17.382	1.00	49.60	HS8
ATOM	41593	CD	PRO	H	76	147.938	139.452	-18.773	1.00	43.03	HS8
ATOM	41594	CA	PRO	H	76	146.861	138.758	-16.735	1.00	49.60	HS8
ATOM	41595	CB	PRO	H	76	145.859	139.046	-17.836	1.00	43.03	HS8
ATOM	41596	CG	PRO	H	76	146.583	140.030	-18.710	1.00	43.03	HS8
ATOM	41597	C	PRO	H	76	146.737	137.333	-16.275	1.00	49.60	HS8
ATOM	41598	O	PRO	H	76	147.401	136.451	-16.815	1.00	49.60	HS8
ATOM	41599	N	GLU	H	77	145.882	137.119	-15.277	1.00	42.96	HS8
ATOM	41600	CA	GLU	H	77	145.613	135.779	-14.775	1.00	42.96	HS8
ATOM	41601	CB	GLU	H	77	144.964	135.842	-13.401	1.00	78.07	HS8
ATOM	41602	CG	GLU	H	77	144.729	134.487	-12.779	1.00	78.07	HS8
ATOM	41603	CD	GLU	H	77	143.986	134.576	-11.456	1.00	78.07	HS8
ATOM	41604	OE1	GLU	H	77	144.374	135.395	-10.583	1.00	78.07	HS8
ATOM	41605	OE2	GLU	H	77	143.015	133.813	-11.284	1.00	78.07	HS8
ATOM	41606	C	GLU	H	77	144.621	135.227	-15.790	1.00	42.96	HS8
ATOM	41607	O	GLU	H	77	143.947	135.985	-16.477	1.00	42.96	HS8
ATOM	41608	N	GLN	H	78	144.530	133.921	-15.922	1.00	43.14	HS8
ATOM	41609	CA	GLN	H	78	143.592	133.403	-16.894	1.00	43.14	HS8
ATOM	41610	CB	GLN	H	78	144.021	132.021	-17.363	1.00	60.95	HS8
ATOM	41611	CG	GLN	H	78	145.187	132.039	-18.297	1.00	60.95	HS8
ATOM	41612	CD	GLN	H	78	144.839	132.647	-19.629	1.00	60.95	HS8
ATOM	41613	OE1	GLN	H	78	143.930	132.184	-20.316	1.00	60.95	HS8
ATOM	41614	NE2	GLN	H	78	145.566	133.687	-20.009	1.00	60.95	HS8
ATOM	41615	C	GLN	H	78	142.206	133.301	-16.303	1.00	43.14	HS8
ATOM	41616	O	GLN	H	78	142.049	133.111	-15.105	1.00	43.14	HS8
ATOM	41617	N	VAL	H	79	141.194	133.454	-17.139	1.00	61.55	HS8
ATOM	41618	CA	VAL	H	79	139.839	133.288	-16.663	1.00	61.55	HS8
ATOM	41619	CB	VAL	H	79	138.834	134.020	-17.551	1.00	63.41	HS8
ATOM	41620	CG1	VAL	H	79	137.428	133.591	-17.212	1.00	63.41	HS8
ATOM	41621	CG2	VAL	H	79	138.977	135.508	-17.352	1.00	63.41	HS8
ATOM	41622	C	VAL	H	79	139.681	131.786	-16.827	1.00	61.55	HS8
ATOM	41623	O	VAL	H	79	138.987	131.129	-16.043	1.00	61.55	HS8
ATOM	41624	N	ILE	H	80	140.367	131.261	-17.850	1.00	38.58	HS8
ATOM	41625	CA	ILE	H	80	140.374	129.825	-18.183	1.00	38.58	HS8
ATOM	41626	CB	ILE	H	80	140.093	129.600	-19.696	1.00	18.98	HS8
ATOM	41627	CG2	ILE	H	80	140.304	128.140	-20.076	1.00	18.98	HS8
ATOM	41628	CD1	ILE	H	80	138.660	130.017	-20.015	1.00	18.98	HS8
ATOM	41629	CD1	ILE	H	80	138.264	129.755	-21.430	1.00	18.98	HS8
ATOM	41630	C	ILE	H	80	141.720	129.195	-17.830	1.00	38.58	HS8
ATOM	41631	O	ILE	H	80	142.583	129.024	-18.686	1.00	38.58	HS8
ATOM	41632	N	HIS	H	81	141.909	128.851	-16.565	1.00	64.64	HS8
ATOM	41633	CA	HIS	H	81	143.182	128.274	-16.184	1.00	64.64	HS8
ATOM	41634	CB	HIS	H	81	143.329	128.183	-14.671	1.00	56.37	HS8
ATOM	41635	CG	HIS	H	81	142.831	129.382	-13.943	1.00	56.37	HS8
ATOM	41636	CD2	HIS	H	81	143.446	130.214	-13.070	1.00	56.37	HS8
ATOM	41637	ND1	HIS	H	81	141.535	129.835	-14.062	1.00	56.37	HS8
ATOM	41638	CE1	HIS	H	81	141.374	130.896	-13.291	1.00	56.37	HS8
ATOM	41639	NE2	HIS	H	81	142.519	131.147	-12.679	1.00	56.37	HS8
ATOM	41640	C	HIS	H	81	143.278	126.877	-16.721	1.00	64.64	HS8
ATOM	41641	O	HIS	H	81	144.369	126.388	-16.994	1.00	64.64	HS8
ATOM	41642	N	HIS	H	82	142.124	126.245	-16.884	1.00	58.98	HS8



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ATOM	41643	CA	HIS	H	82	142.066	124.853	-17.299	1.00	58.98	HS8
ATOM	41644	CB	HIS	H	82	141.766	124.029	-16.052	1.00	49.02	HS8
ATOM	41645	CG	HIS	H	82	141.862	122.553	-16.243	1.00	49.02	HS8
ATOM	41646	CD2	HIS	H	82	140.905	121.594	-16.247	1.00	49.02	HS8
ATOM	41647	ND1	HIS	H	82	143.065	121.897	-16.387	1.00	49.02	HS8
ATOM	41648	CE1	HIS	H	82	142.846	120.597	-16.467	1.00	49.02	HS8
ATOM	41649	NE2	HIS	H	82	141.544	120.387	-16.383	1.00	49.02	HS8
ATOM	41650	C	HIS	H	82	140.987	124.629	-18.337	1.00	58.98	HS8
ATOM	41651	O	HIS	H	82	140.152	125.492	-18.560	1.00	58.98	HS8
ATOM	41652	N	ILE	H	83	141.004	123.457	-18.954	1.00	42.92	HS8
ATOM	41653	CA	ILE	H	83	140.032	123.078	-19.967	1.00	42.92	HS8
ATOM	41654	CB	ILE	H	83	139.788	124.250	-20.962	1.00	27.75	HS8
ATOM	41655	CG2	ILE	H	83	141.076	124.664	-21.619	1.00	27.75	HS8
ATOM	41656	CG1	ILE	H	83	138.749	123.855	-22.005	1.00	27.75	HS8
ATOM	41657	CD1	ILE	H	83	138.365	124.985	-22.920	1.00	27.75	HS8
ATOM	41658	C	ILE	H	83	140.622	121.844	-20.667	1.00	42.92	HS8
ATOM	41659	O	ILE	H	83	141.623	121.951	-21.384	1.00	42.92	HS8
ATOM	41660	N	ARG	H	84	140.026	120.668	-20.429	1.00	57.34	HS8
ATOM	41661	CA	ARG	H	84	140.529	119.415	-21.012	1.00	57.34	HS8
ATOM	41662	CB	ARG	H	84	141.325	118.646	-19.955	1.00	96.65	HS8
ATOM	41663	CG	ARG	H	84	142.211	117.560	-20.535	1.00	96.65	HS8
ATOM	41664	CD	ARG	H	84	142.127	116.260	-19.752	1.00	96.65	HS8
ATOM	41665	NE	ARG	H	84	142.182	116.475	-18.312	1.00	96.65	HS8
ATOM	41666	CZ	ARG	H	84	142.439	115.518	-17.428	1.00	96.65	HS8
ATOM	41667	NH1	ARG	H	84	142.671	114.279	-17.842	1.00	96.65	HS8
ATOM	41668	NH2	ARG	H	84	142.459	115.799	-16.131	1.00	96.65	HS8
ATOM	41669	C	ARG	H	84	139.466	118.469	-21.603	1.00	57.34	HS8
ATOM	41670	O	ARG	H	84	138.417	118.257	-21.004	1.00	57.34	HS8
ATOM	41671	N	ARG	H	85	139.733	117.897	-22.776	1.00	54.53	HS8
ATOM	41672	CA	ARG	H	85	138.776	116.967	-23.359	1.00	54.53	HS8
ATOM	41673	CB	ARG	H	85	139.222	116.463	-24.714	1.00	41.56	HS8
ATOM	41674	CG	ARG	H	85	138.379	116.977	-25.847	1.00	41.56	HS8
ATOM	41675	CD	ARG	H	85	137.569	115.897	-26.525	1.00	41.56	HS8
ATOM	41676	NE	ARG	H	85	136.200	115.857	-26.046	1.00	41.56	HS8
ATOM	41677	CZ	ARG	H	85	135.176	115.471	-26.797	1.00	41.56	HS8
ATOM	41678	NH1	ARG	H	85	135.396	115.112	-28.050	1.00	41.56	HS8
ATOM	41679	NH2	ARG	H	85	133.940	115.421	-26.298	1.00	41.56	HS8
ATOM	41680	C	ARG	H	85	138.779	115.804	-22.426	1.00	54.53	HS8
ATOM	41681	O	ARG	H	85	139.725	115.635	-21.665	1.00	54.53	HS8
ATOM	41682	N	ILE	H	86	137.738	114.991	-22.482	1.00	55.59	HS8
ATOM	41683	CA	ILE	H	86	137.671	113.839	-21.608	1.00	55.59	HS8
ATOM	41684	CB	ILE	H	86	136.679	114.057	-20.477	1.00	34.35	HS8
ATOM	41685	CG2	ILE	H	86	136.417	112.771	-19.747	1.00	34.35	HS8
ATOM	41686	CG1	ILE	H	86	137.242	115.094	-19.518	1.00	34.35	HS8
ATOM	41687	CD1	ILE	H	86	136.341	115.391	-18.394	1.00	34.35	HS8
ATOM	41688	C	ILE	H	86	137.214	112.716	-22.466	1.00	55.59	HS8
ATOM	41689	O	ILE	H	86	137.989	111.825	-22.820	1.00	55.59	HS8
ATOM	41690	N	SER	H	87	135.942	112.732	-22.801	1.00	44.68	HS8
ATOM	41691	CA	SER	H	87	135.483	111.695	-23.675	1.00	44.68	HS8
ATOM	41692	CB	SER	H	87	133.963	111.780	-23.837	1.00	41.52	HS8
ATOM	41693	OG	SER	H	87	133.455	110.711	-24.624	1.00	41.52	HS8
ATOM	41694	C	SER	H	87	136.209	112.067	-24.980	1.00	44.68	HS8
ATOM	41695	O	SER	H	87	136.370	113.253	-25.295	1.00	44.68	HS8
ATOM	41696	N	LYS	H	88	136.716	111.069	-25.692	1.00	35.53	HS8
ATOM	41697	CA	LYS	H	88	137.366	111.304	-26.977	1.00	35.53	HS8
ATOM	41698	CB	LYS	H	88	138.879	111.383	-26.864	1.00	40.48	HS8
ATOM	41699	CG	LYS	H	88	139.409	112.115	-25.668	1.00	40.48	HS8
ATOM	41700	CD	LYS	H	88	140.931	112.002	-25.654	1.00	40.48	HS8
ATOM	41701	CE	LYS	H	88	141.526	112.416	-24.320	1.00	40.48	HS8
ATOM	41702	NZ	LYS	H	88	142.972	112.034	-24.216	1.00	40.48	HS8
ATOM	41703	C	LYS	H	88	137.046	110.047	-27.748	1.00	35.53	HS8
ATOM	41704	O	LYS	H	88	136.633	109.036	-27.162	1.00	35.53	HS8
ATOM	41705	N	PRO	H	89	137.195	110.083	-29.075	1.00	37.35	HS8
ATOM	41706	CD	PRO	H	89	137.374	111.207	-30.014	1.00	20.32	HS8
ATOM	41707	CA	PRO	H	89	136.883	108.820	-29.765	1.00	37.35	HS8
ATOM	41708	CB	PRO	H	89	137.047	109.175	-31.237	1.00	20.32	HS8
ATOM	41709	CG	PRO	H	89	137.903	110.512	-31.212	1.00	20.32	HS8
ATOM	41710	C	PRO	H	89	137.882	107.759	-29.287	1.00	37.35	HS8
ATOM	41711	O	PRO	H	89	138.947	108.089	-28.751	1.00	37.35	HS8
ATOM	41712	N	GLY	H	90	137.543	106.489	-29.451	1.00	83.25	HS8
ATOM	41713	CA	GLY	H	90	138.457	105.454	-28.999	1.00	83.25	HS8
ATOM	41714	C	GLY	H	90	138.714	105.560	-27.507	1.00	83.25	HS8
ATOM	41715	O	GLY	H	90	139.692	105.018	-26.990	1.00	83.25	HS8
ATOM	41716	N	ARG	H	91	137.827	106.283	-26.826	1.00	44.58	HS8
ATOM	41717	CA	ARG	H	91	137.887	106.469	-25.384	1.00	44.58	HS8
ATOM	41718	CB	ARG	H	91	139.213	107.091	-24.972	1.00	71.49	HS8
ATOM	41719	CG	ARG	H	91	139.880	106.358	-23.821	1.00	71.49	HS8



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ATOM	41720	CD	ARG	H	91	138.869	105.867	-22.793	1.00	71.49	HS8
ATOM	41721	NE	ARG	H	91	139.516	105.619	-21.514	1.00	71.49	HS8
ATOM	41722	CZ	ARG	H	91	138.889	105.133	-20.458	1.00	71.49	HS8
ATOM	41723	NH1	ARG	H	91	137.600	104.846	-20.548	1.00	71.49	HS8
ATOM	41724	NH2	ARG	H	91	139.544	104.932	-19.327	1.00	71.49	HS8
ATOM	41725	C	ARG	H	91	136.729	107.351	-24.914	1.00	44.58	HS8
ATOM	41726	O	ARG	H	91	136.914	108.427	-24.320	1.00	44.58	HS8
ATOM	41727	N	ARG	H	92	135.528	106.867	-25.199	1.00	51.04	HS8
ATOM	41728	CA	ARG	H	92	134.292	107.538	-24.845	1.00	51.04	HS8
ATOM	41729	CB	ARG	H	92	133.151	106.905	-25.643	1.00	54.02	HS8
ATOM	41730	CG	ARG	H	92	132.443	107.874	-26.579	1.00	54.02	HS8
ATOM	41731	CD	ARG	H	92	133.361	108.441	-27.644	1.00	54.02	HS8
ATOM	41732	NE	ARG	H	92	132.864	109.718	-28.152	1.00	54.02	HS8
ATOM	41733	CZ	ARG	H	92	133.028	110.133	-29.405	1.00	54.02	HS8
ATOM	41734	NH1	ARG	H	92	133.674	109.368	-30.283	1.00	54.02	HS8
ATOM	41735	NH2	ARG	H	92	132.547	111.312	-29.785	1.00	54.02	HS8
ATOM	41736	C	ARG	H	92	134.000	107.472	-23.339	1.00	51.04	HS8
ATOM	41737	O	ARG	H	92	134.238	106.461	-22.675	1.00	51.04	HS8
ATOM	41738	N	VAL	H	93	133.475	108.555	-22.792	1.00	56.14	HS8
ATOM	41739	CA	VAL	H	93	133.177	108.571	-21.372	1.00	56.14	HS8
ATOM	41740	CB	VAL	H	93	134.089	109.524	-20.647	1.00	24.12	HS8
ATOM	41741	CG1	VAL	H	93	133.644	109.652	-19.213	1.00	24.12	HS8
ATOM	41742	CG2	VAL	H	93	135.494	109.010	-20.724	1.00	24.12	HS8
ATOM	41743	C	VAL	H	93	131.758	108.961	-21.037	1.00	56.14	HS8
ATOM	41744	O	VAL	H	93	131.362	110.115	-21.225	1.00	56.14	HS8
ATOM	41745	N	TYR	H	94	131.002	108.002	-20.511	1.00	48.31	HS8
ATOM	41746	CA	TYR	H	94	129.618	108.263	-20.142	1.00	48.31	HS8
ATOM	41747	CB	TYR	H	94	128.690	107.295	-20.863	1.00	47.44	HS8
ATOM	41748	CG	TYR	H	94	128.891	107.264	-22.352	1.00	47.44	HS8
ATOM	41749	CD1	TYR	H	94	129.627	106.251	-22.962	1.00	47.44	HS8
ATOM	41750	CE1	TYR	H	94	129.773	106.197	-24.350	1.00	47.44	HS8
ATOM	41751	CD2	TYR	H	94	128.315	108.231	-23.161	1.00	47.44	HS8
ATOM	41752	CE2	TYR	H	94	128.457	108.184	-24.551	1.00	47.44	HS8
ATOM	41753	CZ	TYR	H	94	129.182	107.164	-25.134	1.00	47.44	HS8
ATOM	41754	OH	TYR	H	94	129.266	107.120	-26.503	1.00	47.44	HS8
ATOM	41755	C	TYR	H	94	129.469	108.082	-18.650	1.00	48.31	HS8
ATOM	41756	O	TYR	H	94	130.089	107.190	-18.082	1.00	48.31	HS8
ATOM	41757	N	VAL	H	95	128.661	108.928	-18.012	1.00	40.19	HS8
ATOM	41758	CA	VAL	H	95	128.457	108.818	-16.565	1.00	40.19	HS8
ATOM	41759	CB	VAL	H	95	129.199	109.907	-15.798	1.00	15.40	HS8
ATOM	41760	CG1	VAL	H	95	130.672	109.750	-15.987	1.00	15.40	HS8
ATOM	41761	CG2	VAL	H	95	128.748	111.259	-16.287	1.00	15.40	HS8
ATOM	41762	C	VAL	H	95	127.012	108.895	-16.118	1.00	40.19	HS8
ATOM	41763	O	VAL	H	95	126.200	109.607	-16.710	1.00	40.19	HS8
ATOM	41764	N	GLY	H	96	126.703	108.148	-15.063	1.00	63.66	HS8
ATOM	41765	CA	GLY	H	96	125.362	108.164	-14.511	1.00	63.66	HS8
ATOM	41766	C	GLY	H	96	125.227	109.479	-13.775	1.00	63.66	HS8
ATOM	41767	O	GLY	H	96	126.231	110.107	-13.469	1.00	63.66	HS8
ATOM	41768	N	VAL	H	97	124.013	109.911	-13.482	1.00	49.67	HS8
ATOM	41769	CA	VAL	H	97	123.871	111.187	-12.807	1.00	49.67	HS8
ATOM	41770	CB	VAL	H	97	122.403	111.645	-12.789	1.00	48.93	HS8
ATOM	41771	CG1	VAL	H	97	121.549	110.602	-12.118	1.00	48.93	HS8
ATOM	41772	CG2	VAL	H	97	122.289	112.993	-12.102	1.00	48.93	HS8
ATOM	41773	C	VAL	H	97	124.430	111.121	-11.393	1.00	49.67	HS8
ATOM	41774	O	VAL	H	97	124.630	112.144	-10.735	1.00	49.67	HS8
ATOM	41775	N	LYS	H	98	124.697	109.905	-10.936	1.00	43.92	HS8
ATOM	41776	CA	LYS	H	98	125.258	109.712	-9.608	1.00	43.92	HS8
ATOM	41777	CB	LYS	H	98	124.901	108.323	-9.080	1.00	149.81	HS8
ATOM	41778	CG	LYS	H	98	123.442	107.948	-9.256	1.00	149.81	HS8
ATOM	41779	CD	LYS	H	98	123.215	106.485	-8.901	1.00	149.81	HS8
ATOM	41780	CE	LYS	H	98	121.808	106.004	-9.268	1.00	149.81	HS8
ATOM	41781	NZ	LYS	H	98	120.724	106.666	-8.484	1.00	149.81	HS8
ATOM	41782	C	LYS	H	98	126.769	109.825	-9.758	1.00	43.92	HS8
ATOM	41783	O	LYS	H	98	127.468	110.169	-8.816	1.00	43.92	HS8
ATOM	41784	N	GLU	H	99	127.259	109.541	-10.964	1.00	77.07	HS8
ATOM	41785	CA	GLU	H	99	128.691	109.574	-11.278	1.00	77.07	HS8
ATOM	41786	CB	GLU	H	99	129.023	108.442	-12.247	1.00	130.09	HS8
ATOM	41787	CG	GLU	H	99	128.519	107.073	-11.842	1.00	130.09	HS8
ATOM	41788	CD	GLU	H	99	128.729	106.053	-12.946	1.00	130.09	HS8
ATOM	41789	OE1	GLU	H	99	128.086	106.186	-14.012	1.00	130.09	HS8
ATOM	41790	OE2	GLU	H	99	129.546	105.125	-12.755	1.00	130.09	HS8
ATOM	41791	C	GLU	H	99	129.183	110.893	-11.898	1.00	77.07	HS8
ATOM	41792	O	GLU	H	99	130.244	110.935	-12.533	1.00	77.07	HS8
ATOM	41793	N	ILE	H	100	128.422	111.967	-11.722	1.00	50.16	HS8
ATOM	41794	CA	ILE	H	100	128.811	113.244	-12.292	1.00	50.16	HS8
ATOM	41795	CB	ILE	H	100	127.596	114.146	-12.444	1.00	55.98	HS8
ATOM	41796	CG2	ILE	H	100	127.969	115.385	-13.214	1.00	55.98	HS8



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ATOM	41797	CG1	ILE	H	100	126.516	113.400	-13.218	1.00	55.98	HS8
ATOM	41798	CD1	ILE	H	100	125.274	114.212	-13.479	1.00	55.98	HS8
ATOM	41799	C	ILE	H	100	129.877	113.918	-11.431	1.00	50.16	HS8
ATOM	41800	O	ILE	H	100	129.617	114.384	-10.323	1.00	50.16	HS8
ATOM	41801	N	PRO	H	101	131.107	113.977	-11.947	1.00	54.05	HS8
ATOM	41802	CD	PRO	H	101	131.478	113.624	-13.331	1.00	38.51	HS8
ATOM	41803	CA	PRO	H	101	132.233	114.587	-11.235	1.00	54.05	HS8
ATOM	41804	CB	PRO	H	101	133.368	114.485	-12.250	1.00	38.51	HS8
ATOM	41805	CG	PRO	H	101	132.638	114.538	-13.587	1.00	38.51	HS8
ATOM	41806	C	PRO	H	101	132.000	116.017	-10.764	1.00	54.05	HS8
ATOM	41807	O	PRO	H	101	131.172	116.738	-11.311	1.00	54.05	HS8
ATOM	41808	N	ARG	H	102	132.739	116.410	-9.735	1.00	47.37	HS8
ATOM	41809	CA	ARG	H	102	132.655	117.754	-9.186	1.00	47.37	HS8
ATOM	41810	CB	ARG	H	102	132.373	117.699	-7.691	1.00	153.03	HS8
ATOM	41811	CG	ARG	H	102	131.001	118.188	-7.315	1.00	153.03	HS8
ATOM	41812	CD	ARG	H	102	130.684	117.820	-5.884	1.00	153.03	HS8
ATOM	41813	NE	ARG	H	102	129.305	118.145	-5.534	1.00	153.03	HS8
ATOM	41814	CZ	ARG	H	102	128.664	117.640	-4.485	1.00	153.03	HS8
ATOM	41815	NH1	ARG	H	102	129.278	116.781	-3.682	1.00	153.03	HS8
ATOM	41816	NH2	ARG	H	102	127.408	117.992	-4.239	1.00	153.03	HS8
ATOM	41817	C	ARG	H	102	133.987	118.456	-9.435	1.00	47.37	HS8
ATOM	41818	O	ARG	H	102	134.939	118.339	-8.658	1.00	47.37	HS8
ATOM	41819	N	VAL	H	103	134.058	119.186	-10.534	1.00	26.89	HS8
ATOM	41820	CA	VAL	H	103	135.277	119.911	-10.890	1.00	26.89	HS8
ATOM	41821	CB	VAL	H	103	135.084	120.672	-12.227	1.00	27.97	HS8
ATOM	41822	CG1	VAL	H	103	136.346	121.463	-12.560	1.00	27.97	HS8
ATOM	41823	CG2	VAL	H	103	134.742	119.674	-13.351	1.00	27.97	HS8
ATOM	41824	C	VAL	H	103	135.792	120.917	-9.856	1.00	26.89	HS8
ATOM	41825	O	VAL	H	103	135.024	121.646	-9.243	1.00	26.89	HS8
ATOM	41826	N	ARG	H	104	137.106	120.947	-9.681	1.00	57.04	HS8
ATOM	41827	CA	ARG	H	104	137.734	121.889	-8.764	1.00	57.04	HS8
ATOM	41828	CB	ARG	H	104	138.111	123.163	-9.525	1.00	67.00	HS8
ATOM	41829	CG	ARG	H	104	139.582	123.299	-9.910	1.00	67.00	HS8
ATOM	41830	CD	ARG	H	104	140.318	124.045	-8.830	1.00	67.00	HS8
ATOM	41831	NE	ARG	H	104	141.664	124.460	-9.210	1.00	67.00	HS8
ATOM	41832	CZ	ARG	H	104	142.647	123.630	-9.550	1.00	67.00	HS8
ATOM	41833	NH1	ARG	H	104	142.445	122.316	-9.577	1.00	67.00	HS8
ATOM	41834	NH2	ARG	H	104	143.853	124.120	-9.824	1.00	67.00	HS8
ATOM	41835	C	ARG	H	104	136.846	122.254	-7.580	1.00	57.04	HS8
ATOM	41836	O	ARG	H	104	136.482	123.423	-7.402	1.00	57.04	HS8
ATOM	41837	N	ARG	H	105	136.498	121.249	-6.782	1.00	50.62	HS8
ATOM	41838	CA	ARG	H	105	135.667	121.449	-5.605	1.00	50.62	HS8
ATOM	41839	CB	ARG	H	105	136.532	121.894	-4.429	1.00	87.84	HS8
ATOM	41840	CG	ARG	H	105	136.383	121.042	-3.181	1.00	87.84	HS8
ATOM	41841	CD	ARG	H	105	137.119	119.716	-3.338	1.00	87.84	HS8
ATOM	41842	NE	ARG	H	105	137.535	119.167	-2.046	1.00	87.84	HS8
ATOM	41843	CZ	ARG	H	105	136.770	118.424	-1.254	1.00	87.84	HS8
ATOM	41844	NH1	ARG	H	105	135.526	118.118	-1.618	1.00	87.84	HS8
ATOM	41845	NH2	ARG	H	105	137.249	118.000	-0.090	1.00	87.84	HS8
ATOM	41846	C	ARG	H	105	134.540	122.468	-5.815	1.00	50.62	HS8
ATOM	41847	O	ARG	H	105	134.240	123.276	-4.931	1.00	50.62	HS8
ATOM	41848	N	GLY	H	106	133.922	122.445	-6.988	1.00	53.74	HS8
ATOM	41849	CA	GLY	H	106	132.823	123.358	-7.237	1.00	53.74	HS8
ATOM	41850	C	GLY	H	106	133.176	124.608	-8.002	1.00	53.74	HS8
ATOM	41851	O	GLY	H	106	132.358	125.090	-8.796	1.00	53.74	HS8
ATOM	41852	N	LEU	H	107	134.379	125.134	-7.776	1.00	44.98	HS8
ATOM	41853	CA	LEU	H	107	134.805	126.343	-8.468	1.00	44.98	HS8
ATOM	41854	CB	LEU	H	107	136.161	126.799	-7.950	1.00	43.01	HS8
ATOM	41855	CG	LEU	H	107	136.178	126.971	-6.439	1.00	43.01	HS8
ATOM	41856	CD1	LEU	H	107	137.363	127.826	-5.983	1.00	43.01	HS8
ATOM	41857	CD2	LEU	H	107	134.876	127.634	-6.048	1.00	43.01	HS8
ATOM	41858	C	LEU	H	107	134.868	126.181	-9.981	1.00	44.98	HS8
ATOM	41859	O	LEU	H	107	134.781	127.164	-10.711	1.00	44.98	HS8
ATOM	41860	N	GLY	H	108	135.024	124.946	-10.448	1.00	51.12	HS8
ATOM	41861	CA	GLY	H	108	135.078	124.710	-11.876	1.00	51.12	HS8
ATOM	41862	C	GLY	H	108	133.834	123.996	-12.364	1.00	51.12	HS8
ATOM	41863	O	GLY	H	108	132.943	123.691	-11.575	1.00	51.12	HS8
ATOM	41864	N	ILE	H	109	133.766	123.718	-13.661	1.00	33.39	HS8
ATOM	41865	CA	ILE	H	109	132.612	123.035	-14.228	1.00	33.39	HS8
ATOM	41866	CB	ILE	H	109	131.757	123.986	-15.023	1.00	27.36	HS8
ATOM	41867	CG2	ILE	H	109	131.351	125.126	-14.159	1.00	27.36	HS8
ATOM	41868	CG1	ILE	H	109	132.565	124.518	-16.207	1.00	27.36	HS8
ATOM	41869	CD1	ILE	H	109	131.763	125.253	-17.245	1.00	27.36	HS8
ATOM	41870	C	ILE	H	109	133.010	121.915	-15.172	1.00	33.39	HS8
ATOM	41871	O	ILE	H	109	134.148	121.838	-15.640	1.00	33.39	HS8
ATOM	41872	N	ALA	H	110	132.040	121.059	-15.460	1.00	43.98	HS8
ATOM	41873	CA	ALA	H	110	132.230	119.932	-16.353	1.00	43.98	HS8



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ATOM	41874	CB	ALA	H	110	132.229	118.665	-15.585	1.00	17.39	HS8
ATOM	41875	C	ALA	H	110	131.043	119.966	-17.264	1.00	43.98	HS8
ATOM	41876	O	ALA	H	110	129.912	120.014	-16.802	1.00	43.98	HS8
ATOM	41877	N	ILE	H	111	131.286	119.934	-18.559	1.00	57.80	HS8
ATOM	41878	CA	ILE	H	111	130.188	120.001	-19.497	1.00	57.80	HS8
ATOM	41879	CB	ILE	H	111	130.577	120.878	-20.658	1.00	39.20	HS8
ATOM	41880	CG2	ILE	H	111	129.397	121.060	-21.574	1.00	39.20	HS8
ATOM	41881	CG1	ILE	H	111	131.104	122.208	-20.117	1.00	39.20	HS8
ATOM	41882	CD1	ILE	H	111	131.474	123.193	-21.188	1.00	39.20	HS8
ATOM	41883	C	ILE	H	111	129.790	118.634	-20.003	1.00	57.80	HS8
ATOM	41884	O	ILE	H	111	130.630	117.886	-20.498	1.00	57.80	HS8
ATOM	41885	N	LEU	H	112	128.513	118.296	-19.873	1.00	45.10	HS8
ATOM	41886	CA	LEU	H	112	128.054	116.991	-20.337	1.00	45.10	HS8
ATOM	41887	CB	LEU	H	112	127.374	116.195	-19.217	1.00	34.83	HS8
ATOM	41888	CG	LEU	H	112	127.853	116.383	-17.780	1.00	34.83	HS8
ATOM	41889	CD1	LEU	H	112	127.467	115.166	-16.955	1.00	34.83	HS8
ATOM	41890	CD2	LEU	H	112	129.347	116.538	-17.759	1.00	34.83	HS8
ATOM	41891	C	LEU	H	112	127.059	117.166	-21.452	1.00	45.10	HS8
ATOM	41892	O	LEU	H	112	126.433	118.222	-21.576	1.00	45.10	HS8
ATOM	41893	N	SER	H	113	126.927	116.136	-22.275	1.00	31.72	HS8
ATOM	41894	CA	SER	H	113	125.956	116.164	-23.353	1.00	31.72	HS8
ATOM	41895	CB	SER	H	113	126.602	115.883	-24.704	1.00	32.85	HS8
ATOM	41896	OG	SER	H	113	125.613	115.463	-25.632	1.00	32.85	HS8
ATOM	41897	C	SER	H	113	124.971	115.062	-23.006	1.00	31.72	HS8
ATOM	41898	O	SER	H	113	125.319	113.888	-23.020	1.00	31.72	HS8
ATOM	41899	N	THR	H	114	123.744	115.458	-22.681	1.00	41.66	HS8
ATOM	41900	CA	THR	H	114	122.706	114.524	-22.284	1.00	41.66	HS8
ATOM	41901	CB	THR	H	114	122.191	114.877	-20.896	1.00	35.79	HS8
ATOM	41902	OG1	THR	H	114	121.441	116.098	-20.973	1.00	35.79	HS8
ATOM	41903	CG2	THR	H	114	123.367	115.057	-19.936	1.00	35.79	HS8
ATOM	41904	C	THR	H	114	121.533	114.568	-23.237	1.00	41.66	HS8
ATOM	41905	O	THR	H	114	121.431	115.470	-24.058	1.00	41.66	HS8
ATOM	41906	N	SER	H	115	120.636	113.596	-23.112	1.00	52.54	HS8
ATOM	41907	CA	SER	H	115	119.468	113.553	-23.976	1.00	52.54	HS8
ATOM	41908	CB	SER	H	115	118.739	112.213	-23.858	1.00	62.07	HS8
ATOM	41909	OG	SER	H	115	118.224	112.008	-22.558	1.00	62.07	HS8
ATOM	41910	C	SER	H	115	118.546	114.692	-23.595	1.00	52.54	HS8
ATOM	41911	O	SER	H	115	117.427	114.795	-24.085	1.00	52.54	HS8
ATOM	41912	N	LYS	H	116	119.020	115.543	-22.696	1.00	45.43	HS8
ATOM	41913	CA	LYS	H	116	118.253	116.703	-22.285	1.00	45.43	HS8
ATOM	41914	CB	LYS	H	116	117.979	116.709	-20.782	1.00	83.95	HS8
ATOM	41915	CG	LYS	H	116	116.638	116.128	-20.402	1.00	83.95	HS8
ATOM	41916	CD	LYS	H	116	116.298	116.426	-18.956	1.00	83.95	HS8
ATOM	41917	CE	LYS	H	116	114.862	116.020	-18.656	1.00	83.95	HS8
ATOM	41918	NZ	LYS	H	116	114.371	116.567	-17.354	1.00	83.95	HS8
ATOM	41919	C	LYS	H	116	119.116	117.885	-22.649	1.00	45.43	HS8
ATOM	41920	O	LYS	H	116	119.141	118.892	-21.941	1.00	45.43	HS8
ATOM	41921	N	GLY	H	117	119.843	117.737	-23.753	1.00	53.28	HS8
ATOM	41922	CA	GLY	H	117	120.708	118.804	-24.230	1.00	53.28	HS8
ATOM	41923	C	GLY	H	117	122.089	118.834	-23.607	1.00	53.28	HS8
ATOM	41924	O	GLY	H	117	122.454	117.930	-22.848	1.00	53.28	HS8
ATOM	41925	N	VAL	H	118	122.858	119.870	-23.930	1.00	44.67	HS8
ATOM	41926	CA	VAL	H	118	124.205	120.006	-23.389	1.00	44.67	HS8
ATOM	41927	CB	VAL	H	118	125.154	120.639	-24.435	1.00	55.69	HS8
ATOM	41928	CG1	VAL	H	118	126.527	120.839	-23.835	1.00	55.69	HS8
ATOM	41929	CG2	VAL	H	118	125.238	119.745	-25.673	1.00	55.69	HS8
ATOM	41930	C	VAL	H	118	124.140	120.889	-22.153	1.00	44.67	HS8
ATOM	41931	O	VAL	H	118	123.700	122.019	-22.241	1.00	44.67	HS8
ATOM	41932	N	LEU	H	119	124.574	120.392	-21.003	1.00	35.96	HS8
ATOM	41933	CA	LEU	H	119	124.486	121.201	-19.791	1.00	35.96	HS8
ATOM	41934	CB	LEU	H	119	123.167	120.915	-19.059	1.00	65.07	HS8
ATOM	41935	CG	LEU	H	119	122.698	119.466	-18.861	1.00	65.07	HS8
ATOM	41936	CD1	LEU	H	119	121.457	119.421	-17.990	1.00	65.07	HS8
ATOM	41937	CD2	LEU	H	119	122.370	118.851	-20.201	1.00	65.07	HS8
ATOM	41938	C	LEU	H	119	125.644	121.016	-18.834	1.00	35.96	HS8
ATOM	41939	O	LEU	H	119	126.369	120.029	-18.915	1.00	35.96	HS8
ATOM	41940	N	THR	H	120	125.826	121.985	-17.938	1.00	37.12	HS8
ATOM	41941	CA	THR	H	120	126.902	121.932	-16.956	1.00	37.12	HS8
ATOM	41942	CB	THR	H	120	127.054	123.251	-16.208	1.00	48.40	HS8
ATOM	41943	OG1	THR	H	120	125.951	123.425	-15.314	1.00	48.40	HS8
ATOM	41944	CG2	THR	H	120	127.096	124.403	-17.183	1.00	48.40	HS8
ATOM	41945	C	THR	H	120	126.550	120.863	-15.944	1.00	37.12	HS8
ATOM	41946	O	THR	H	120	125.421	120.360	-15.941	1.00	37.12	HS8
ATOM	41947	N	ASP	H	121	127.502	120.515	-15.082	1.00	62.26	HS8
ATOM	41948	CA	ASP	H	121	127.245	119.478	-14.093	1.00	62.26	HS8
ATOM	41949	CB	ASP	H	121	128.502	119.174	-13.252	1.00	76.26	HS8
ATOM	41950	CG	ASP	H	121	129.265	120.419	-12.834	1.00	76.26	HS8



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ATOM	41951	OD1	ASP	H	121	129.569	121.271	-13.697	1.00	76.26	HS8
ATOM	41952	OD2	ASP	H	121	129.584	120.530	-11.631	1.00	76.26	HS8
ATOM	41953	C	ASP	H	121	126.058	119.838	-13.218	1.00	62.26	HS8
ATOM	41954	O	ASP	H	121	125.112	119.060	-13.116	1.00	62.26	HS8
ATOM	41955	N	ARG	H	122	126.080	121.016	-12.610	1.00	50.51	HS8
ATOM	41956	CA	ARG	H	122	124.962	121.414	-11.778	1.00	50.51	HS8
ATOM	41957	CB	ARG	H	122	125.110	122.866	-11.360	1.00	102.03	HS8
ATOM	41958	CG	ARG	H	122	126.431	123.116	-10.718	1.00	102.03	HS8
ATOM	41959	CD	ARG	H	122	126.438	124.389	-9.925	1.00	102.03	HS8
ATOM	41960	NE	ARG	H	122	127.657	124.477	-9.127	1.00	102.03	HS8
ATOM	41961	CZ	ARG	H	122	127.922	125.445	-8.253	1.00	102.03	HS8
ATOM	41962	NH1	ARG	H	122	127.049	126.428	-8.054	1.00	102.03	HS8
ATOM	41963	NH2	ARG	H	122	129.061	125.427	-7.571	1.00	102.03	HS8
ATOM	41964	C	ARG	H	122	123.688	121.222	-12.590	1.00	50.51	HS8
ATOM	41965	O	ARG	H	122	122.773	120.506	-12.176	1.00	50.51	HS8
ATOM	41966	N	GLU	H	123	123.644	121.845	-13.762	1.00	34.74	HS8
ATOM	41967	CA	GLU	H	123	122.482	121.746	-14.635	1.00	34.74	HS8
ATOM	41968	CB	GLU	H	123	122.818	122.334	-16.013	1.00	85.19	HS8
ATOM	41969	CG	GLU	H	123	122.742	123.861	-16.073	1.00	85.19	HS8
ATOM	41970	CD	GLU	H	123	123.350	124.454	-17.341	1.00	85.19	HS8
ATOM	41971	OE1	GLU	H	123	123.161	123.878	-18.439	1.00	85.19	HS8
ATOM	41972	OE2	GLU	H	123	124.008	125.515	-17.233	1.00	85.19	HS8
ATOM	41973	C	GLU	H	123	122.005	120.300	-14.779	1.00	34.74	HS8
ATOM	41974	O	GLU	H	123	120.812	120.013	-14.682	1.00	34.74	HS8
ATOM	41975	N	ALA	H	124	122.943	119.388	-15.006	1.00	46.03	HS8
ATOM	41976	CA	ALA	H	124	122.597	117.982	-15.176	1.00	46.03	HS8
ATOM	41977	CB	ALA	H	124	123.831	117.188	-15.569	1.00	71.59	HS8
ATOM	41978	C	ALA	H	124	122.010	117.432	-13.893	1.00	46.03	HS8
ATOM	41979	O	ALA	H	124	120.927	116.848	-13.887	1.00	46.03	HS8
ATOM	41980	N	ARG	H	125	122.744	117.630	-12.806	1.00	53.31	HS8
ATOM	41981	CA	ARG	H	125	122.313	117.160	-11.510	1.00	53.31	HS8
ATOM	41982	CB	ARG	H	125	123.305	117.593	-10.440	1.00	126.01	HS8
ATOM	41983	CG	ARG	H	125	123.661	116.467	-9.506	1.00	126.01	HS8
ATOM	41984	CD	ARG	H	125	124.971	116.733	-8.818	1.00	126.01	HS8
ATOM	41985	NE	ARG	H	125	125.986	117.165	-9.771	1.00	126.01	HS8
ATOM	41986	CZ	ARG	H	125	127.276	117.288	-9.479	1.00	126.01	HS8
ATOM	41987	NH1	ARG	H	125	127.702	117.002	-8.254	1.00	126.01	HS8
ATOM	41988	NH2	ARG	H	125	128.137	117.710	-10.401	1.00	126.01	HS8
ATOM	41989	C	ARG	H	125	120.924	117.701	-11.206	1.00	53.31	HS8
ATOM	41990	O	ARG	H	125	120.034	116.941	-10.839	1.00	53.31	HS8
ATOM	41991	N	LYS	H	126	120.734	119.010	-11.367	1.00	56.49	HS8
ATOM	41992	CA	LYS	H	126	119.431	119.619	-11.119	1.00	56.49	HS8
ATOM	41993	CB	LYS	H	126	119.423	121.077	-11.587	1.00	99.30	HS8
ATOM	41994	CG	LYS	H	126	118.164	121.828	-11.181	1.00	99.30	HS8
ATOM	41995	CD	LYS	H	126	117.831	123.010	-12.102	1.00	99.30	HS8
ATOM	41996	CE	LYS	H	126	116.451	123.593	-11.751	1.00	99.30	HS8
ATOM	41997	NZ	LYS	H	126	115.913	124.561	-12.745	1.00	99.30	HS8
ATOM	41998	C	LYS	H	126	118.362	118.825	-11.884	1.00	56.49	HS8
ATOM	41999	O	LYS	H	126	117.350	118.423	-11.316	1.00	56.49	HS8
ATOM	42000	N	LEU	H	127	118.613	118.589	-13.170	1.00	31.66	HS8
ATOM	42001	CA	LEU	H	127	117.701	117.856	-14.045	1.00	31.66	HS8
ATOM	42002	CB	LEU	H	127	118.018	118.162	-15.511	1.00	32.85	HS8
ATOM	42003	CG	LEU	H	127	117.401	119.379	-16.193	1.00	32.85	HS8
ATOM	42004	CD1	LEU	H	127	115.920	119.130	-16.321	1.00	32.85	HS8
ATOM	42005	CD2	LEU	H	127	117.679	120.651	-15.414	1.00	32.85	HS8
ATOM	42006	C	LEU	H	127	117.791	116.350	-13.842	1.00	31.66	HS8
ATOM	42007	O	LEU	H	127	117.093	115.588	-14.524	1.00	31.66	HS8
ATOM	42008	N	GLY	H	128	118.679	115.934	-12.936	1.00	61.01	HS8
ATOM	42009	CA	GLY	H	128	118.873	114.520	-12.633	1.00	61.01	HS8
ATOM	42010	C	GLY	H	128	119.180	113.600	-13.810	1.00	61.01	HS8
ATOM	42011	O	GLY	H	128	118.578	112.521	-13.952	1.00	61.01	HS8
ATOM	42012	N	VAL	H	129	120.134	114.004	-14.643	1.00	64.47	HS8
ATOM	42013	CA	VAL	H	129	120.490	113.211	-15.806	1.00	64.47	HS8
ATOM	42014	CB	VAL	H	129	119.998	113.873	-17.075	1.00	41.01	HS8
ATOM	42015	CG1	VAL	H	129	118.504	114.138	-16.976	1.00	41.01	HS8
ATOM	42016	CG2	VAL	H	129	120.762	115.165	-17.295	1.00	41.01	HS8
ATOM	42017	C	VAL	H	129	121.985	113.053	-15.950	1.00	64.47	HS8
ATOM	42018	O	VAL	H	129	122.752	113.878	-15.453	1.00	64.47	HS8
ATOM	42019	N	GLY	H	130	122.386	111.997	-16.651	1.00	52.07	HS8
ATOM	42020	CA	GLY	H	130	123.795	111.743	-16.886	1.00	52.07	HS8
ATOM	42021	C	GLY	H	130	124.047	111.902	-18.369	1.00	52.07	HS8
ATOM	42022	O	GLY	H	130	123.121	112.254	-19.101	1.00	52.07	HS8
ATOM	42023	N	GLY	H	131	125.276	111.653	-18.821	1.00	70.39	HS8
ATOM	42024	CA	GLY	H	131	125.580	111.783	-20.238	1.00	70.39	HS8
ATOM	42025	C	GLY	H	131	127.045	111.607	-20.592	1.00	70.39	HS8
ATOM	42026	O	GLY	H	131	127.842	111.179	-19.758	1.00	70.39	HS8
ATOM	42027	N	GLU	H	132	127.392	111.915	-21.842	1.00	48.03	HS8



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ATOM	42028	CA	GLU	H	132	128.771	111.815	-22.313	1.00	48.03	HS8
ATOM	42029	CB	GLU	H	132	128.845	111.928	-23.843	1.00	59.48	HS8
ATOM	42030	CG	GLU	H	132	130.235	111.655	-24.401	1.00	59.48	HS8
ATOM	42031	CD	GLU	H	132	130.267	111.416	-25.906	1.00	59.48	HS8
ATOM	42032	OE1	GLU	H	132	129.398	110.670	-26.430	1.00	59.48	HS8
ATOM	42033	OE2	GLU	H	132	131.188	111.963	-26.559	1.00	59.48	HS8
ATOM	42034	C	GLU	H	132	129.490	112.986	-21.667	1.00	48.03	HS8
ATOM	42035	O	GLU	H	132	129.106	114.136	-21.867	1.00	48.03	HS8
ATOM	42036	N	LEU	H	133	130.521	112.683	-20.886	1.00	59.79	HS8
ATOM	42037	CA	LEU	H	133	131.280	113.689	-20.153	1.00	59.79	HS8
ATOM	42038	CB	LEU	H	133	132.013	112.993	-19.013	1.00	24.68	HS8
ATOM	42039	CG	LEU	H	133	132.147	113.755	-17.705	1.00	24.68	HS8
ATOM	42040	CD1	LEU	H	133	132.582	112.811	-16.604	1.00	24.68	HS8
ATOM	42041	CD2	LEU	H	133	133.144	114.865	-17.877	1.00	24.68	HS8
ATOM	42042	C	LEU	H	133	132.259	114.477	-21.026	1.00	59.79	HS8
ATOM	42043	O	LEU	H	133	133.471	114.384	-20.860	1.00	59.79	HS8
ATOM	42044	N	ILE	H	134	131.702	115.263	-21.944	1.00	59.39	HS8
ATOM	42045	CA	ILE	H	134	132.436	116.094	-22.904	1.00	59.39	HS8
ATOM	42046	CB	ILE	H	134	131.623	117.315	-23.295	1.00	49.98	HS8
ATOM	42047	CG2	ILE	H	134	132.406	118.147	-24.279	1.00	49.98	HS8
ATOM	42048	CG1	ILE	H	134	130.276	116.871	-23.864	1.00	49.98	HS8
ATOM	42049	CD1	ILE	H	134	129.221	117.951	-23.824	1.00	49.98	HS8
ATOM	42050	C	ILE	H	134	133.786	116.610	-22.485	1.00	59.39	HS8
ATOM	42051	O	ILE	H	134	134.807	116.138	-22.964	1.00	59.39	HS8
ATOM	42052	N	CYS	H	135	133.782	117.615	-21.619	1.00	47.94	HS8
ATOM	42053	CA	CYS	H	135	135.026	118.207	-21.147	1.00	47.94	HS8
ATOM	42054	CB	CYS	H	135	135.448	119.358	-22.066	1.00	53.94	HS8
ATOM	42055	SG	CYS	H	135	134.280	120.728	-22.137	1.00	53.94	HS8
ATOM	42056	C	CYS	H	135	134.936	118.704	-19.708	1.00	47.94	HS8
ATOM	42057	O	CYS	H	135	134.011	118.364	-18.982	1.00	47.94	HS8
ATOM	42058	N	GLU	H	136	135.884	119.543	-19.318	1.00	52.31	HS8
ATOM	42059	CA	GLU	H	136	135.946	120.037	-17.957	1.00	52.31	HS8
ATOM	42060	CB	GLU	H	136	136.616	118.946	-17.117	1.00	72.07	HS8
ATOM	42061	CG	GLU	H	136	137.396	119.391	-15.914	1.00	72.07	HS8
ATOM	42062	CD	GLU	H	136	138.572	118.465	-15.640	1.00	72.07	HS8
ATOM	42063	OE1	GLU	H	136	139.578	118.545	-16.375	1.00	72.07	HS8
ATOM	42064	OE2	GLU	H	136	138.490	117.646	-14.702	1.00	72.07	HS8
ATOM	42065	C	GLU	H	136	136.731	121.352	-17.927	1.00	52.31	HS8
ATOM	42066	O	GLU	H	136	137.904	121.386	-18.303	1.00	52.31	HS8
ATOM	42067	N	VAL	H	137	136.084	122.430	-17.481	1.00	33.59	HS8
ATOM	42068	CA	VAL	H	137	136.715	123.748	-17.434	1.00	33.59	HS8
ATOM	42069	CB	VAL	H	137	135.925	124.766	-18.281	1.00	39.08	HS8
ATOM	42070	CG1	VAL	H	137	136.525	126.160	-18.120	1.00	39.08	HS8
ATOM	42071	CG2	VAL	H	137	135.934	124.361	-19.726	1.00	39.08	HS8
ATOM	42072	C	VAL	H	137	136.793	124.327	-16.032	1.00	33.59	HS8
ATOM	42073	O	VAL	H	137	135.852	124.190	-15.259	1.00	33.59	HS8
ATOM	42074	N	TRP	H	138	137.906	124.984	-15.707	1.00	39.93	HS8
ATOM	42075	CA	TRP	H	138	138.045	125.619	-14.402	1.00	39.93	HS8
ATOM	42076	CB	TRP	H	138	138.176	124.571	-13.278	1.00	46.40	HS8
ATOM	42077	CG	TRP	H	138	139.355	123.631	-13.280	1.00	46.40	HS8
ATOM	42078	CD2	TRP	H	138	140.707	123.964	-13.009	1.00	46.40	HS8
ATOM	42079	CE2	TRP	H	138	141.453	122.760	-13.036	1.00	46.40	HS8
ATOM	42080	CE3	TRP	H	138	141.368	125.161	-12.747	1.00	46.40	HS8
ATOM	42081	CD1	TRP	H	138	139.328	122.266	-13.458	1.00	46.40	HS8
ATOM	42082	NE1	TRP	H	138	140.589	121.737	-13.311	1.00	46.40	HS8
ATOM	42083	CZ2	TRP	H	138	142.817	122.729	-12.816	1.00	46.40	HS8
ATOM	42084	CZ3	TRP	H	138	142.732	125.131	-12.528	1.00	46.40	HS8
ATOM	42085	CH2	TRP	H	138	143.446	123.923	-12.566	1.00	46.40	HS8
ATOM	42086	C	TRP	H	138	139.136	126.680	-14.290	1.00	39.93	HS8
ATOM	42087	O	TRP	H	138	139.581	127.179	-15.345	1.00	39.93	HS8
ATOM	42088	OXT	TRP	H	138	139.500	127.039	-13.152	1.00	75.37	HS8
TER	42088	TRP	H	138							HS8
ATOM	42089	CB	GLU	I	2	242.794	181.558	-4.217	1.00144.84		IS9
ATOM	42090	CG	GLU	I	2	243.855	181.480	-3.104	1.00144.84		IS9
ATOM	42091	CD	GLU	I	2	244.156	180.064	-2.617	1.00144.84		IS9
ATOM	42092	OE1	GLU	I	2	244.824	179.297	-3.344	1.00144.84		IS9
ATOM	42093	OE2	GLU	I	2	243.723	179.723	-1.494	1.00144.84		IS9
ATOM	42094	C	GLU	I	2	243.220	179.498	-5.570	1.00171.60		IS9
ATOM	42095	O	GLU	I	2	244.206	178.866	-5.950	1.00171.60		IS9
ATOM	42096	N	GLU	I	2	242.319	181.540	-6.652	1.00171.60		IS9
ATOM	42097	CA	GLU	I	2	243.229	181.025	-5.588	1.00171.60		IS9
ATOM	42098	N	GLN	I	3	242.105	178.912	-5.132	1.00162.73		IS9
ATOM	42099	CA	GLN	I	3	241.979	177.454	-5.056	1.00162.73		IS9
ATOM	42100	CB	GLN	I	3	242.436	176.956	-3.685	1.00108.74		IS9
ATOM	42101	CG	GLN	I	3	242.511	175.446	-3.578	1.00108.74		IS9
ATOM	42102	CD	GLN	I	3	242.784	174.987	-2.167	1.00108.74		IS9
ATOM	42103	OE1	GLN	I	3	243.090	173.819	-1.929	1.00108.74		IS9



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ATOM	42104	NE2	GLN	I	3	242.664	175.904	-1.217	1.00108.74	IS9
ATOM	42105	C	GLN	I	3	240.562	176.946	-5.308	1.00162.73	IS9
ATOM	42106	O	GLN	I	3	239.586	177.680	-5.162	1.00162.73	IS9
ATOM	42107	N	TYR	I	4	240.460	175.676	-5.684	1.00136.44	IS9
ATOM	42108	CA	TYR	I	4	239.170	175.055	-5.953	1.00136.44	IS9
ATOM	42109	CB	TYR	I	4	238.885	175.063	-7.454	1.00138.91	IS9
ATOM	42110	CG	TYR	I	4	238.888	176.456	-8.022	1.00138.91	IS9
ATOM	42111	CD1	TYR	I	4	240.084	177.096	-8.344	1.00138.91	IS9
ATOM	42112	CE1	TYR	I	4	240.097	178.413	-8.782	1.00138.91	IS9
ATOM	42113	CD2	TYR	I	4	237.701	177.168	-8.159	1.00138.91	IS9
ATOM	42114	CE2	TYR	I	4	237.700	178.485	-8.598	1.00138.91	IS9
ATOM	42115	CZ	TYR	I	4	238.900	179.104	-8.908	1.00138.91	IS9
ATOM	42116	OH	TYR	I	4	238.895	180.409	-9.346	1.00138.91	IS9
ATOM	42117	C	TYR	I	4	239.144	173.634	-5.413	1.00136.44	IS9
ATOM	42118	O	TYR	I	4	240.191	173.068	-5.091	1.00136.44	IS9
ATOM	42119	N	TYR	I	5	237.950	173.056	-5.317	1.00147.61	IS9
ATOM	42120	CA	TYR	I	5	237.822	171.709	-4.780	1.00147.61	IS9
ATOM	42121	CB	TYR	I	5	238.157	171.743	-3.281	1.00 78.40	IS9
ATOM	42122	CG	TYR	I	5	237.630	170.583	-2.476	1.00 78.40	IS9
ATOM	42123	CD1	TYR	I	5	236.380	170.647	-1.859	1.00 78.40	IS9
ATOM	42124	CE1	TYR	I	5	235.889	169.574	-1.114	1.00 78.40	IS9
ATOM	42125	CD2	TYR	I	5	238.377	169.419	-2.333	1.00 78.40	IS9
ATOM	42126	CE2	TYR	I	5	237.896	168.341	-1.593	1.00 78.40	IS9
ATOM	42127	CZ	TYR	I	5	236.653	168.425	-0.987	1.00 78.40	IS9
ATOM	42128	OH	TYR	I	5	236.190	167.356	-0.256	1.00 78.40	IS9
ATOM	42129	C	TYR	I	5	236.465	171.041	-5.012	1.00147.61	IS9
ATOM	42130	O	TYR	I	5	235.455	171.701	-5.247	1.00147.61	IS9
ATOM	42131	N	GLY	I	6	236.478	169.713	-4.964	1.00115.64	IS9
ATOM	42132	CA	GLY	I	6	235.284	168.908	-5.139	1.00115.64	IS9
ATOM	42133	C	GLY	I	6	235.633	167.597	-4.469	1.00115.64	IS9
ATOM	42134	O	GLY	I	6	236.819	167.310	-4.297	1.00115.64	IS9
ATOM	42135	N	THR	I	7	234.649	166.794	-4.083	1.00182.67	IS9
ATOM	42136	CA	THR	I	7	234.978	165.537	-3.424	1.00182.67	IS9
ATOM	42137	CB	THR	I	7	233.911	165.146	-2.388	1.00 59.91	IS9
ATOM	42138	OG1	THR	I	7	233.739	166.222	-1.461	1.00 59.91	IS9
ATOM	42139	CG2	THR	I	7	234.352	163.913	-1.604	1.00 59.91	IS9
ATOM	42140	C	THR	I	7	235.188	164.383	-4.394	1.00182.67	IS9
ATOM	42141	O	THR	I	7	236.236	164.285	-5.024	1.00182.67	IS9
ATOM	42142	N	GLY	I	8	234.199	163.509	-4.520	1.00 87.20	IS9
ATOM	42143	CA	GLY	I	8	234.354	162.377	-5.412	1.00 87.20	IS9
ATOM	42144	C	GLY	I	8	234.541	161.059	-4.678	1.00 87.20	IS9
ATOM	42145	O	GLY	I	8	235.650	160.720	-4.251	1.00 87.20	IS9
ATOM	42146	N	ARG	I	9	233.444	160.324	-4.516	1.00 77.26	IS9
ATOM	42147	CA	ARG	I	9	233.467	159.027	-3.854	1.00 77.26	IS9
ATOM	42148	CB	ARG	I	9	232.504	159.001	-2.666	1.00 83.46	IS9
ATOM	42149	CG	ARG	I	9	233.043	159.658	-1.402	1.00 83.46	IS9
ATOM	42150	CD	ARG	I	9	232.037	159.547	-0.251	1.00 83.46	IS9
ATOM	42151	NE	ARG	I	9	230.847	160.360	-0.485	1.00 83.46	IS9
ATOM	42152	CZ	ARG	I	9	230.801	161.677	-0.309	1.00 83.46	IS9
ATOM	42153	NH1	ARG	I	9	231.879	162.325	0.116	1.00 83.46	IS9
ATOM	42154	NH2	ARG	I	9	229.689	162.350	-0.583	1.00 83.46	IS9
ATOM	42155	C	ARG	I	9	233.079	157.943	-4.856	1.00 77.26	IS9
ATOM	42156	O	ARG	I	9	232.218	158.151	-5.718	1.00 77.26	IS9
ATOM	42157	N	ARG	I	10	233.724	156.785	-4.743	1.00 85.43	IS9
ATOM	42158	CA	ARG	I	10	233.454	155.677	-5.650	1.00 85.43	IS9
ATOM	42159	CB	ARG	I	10	234.409	155.728	-6.848	1.00 84.03	IS9
ATOM	42160	CG	ARG	I	10	234.342	154.483	-7.716	1.00 84.03	IS9
ATOM	42161	CD	ARG	I	10	232.921	154.280	-8.200	1.00 84.03	IS9
ATOM	42162	NE	ARG	I	10	232.580	152.874	-8.361	1.00 84.03	IS9
ATOM	42163	CZ	ARG	I	10	233.118	152.078	-9.273	1.00 84.03	IS9
ATOM	42164	NH1	ARG	I	10	234.031	152.542	-10.119	1.00 84.03	IS9
ATOM	42165	NH2	ARG	I	10	232.740	150.814	-9.336	1.00 84.03	IS9
ATOM	42166	C	ARG	I	10	233.566	154.302	-5.010	1.00 85.43	IS9
ATOM	42167	O	ARG	I	10	234.632	153.923	-4.528	1.00 85.43	IS9
ATOM	42168	N	LYS	I	11	232.466	153.561	-5.003	1.00 80.74	IS9
ATOM	42169	CA	LYS	I	11	232.502	152.212	-4.470	1.00 80.74	IS9
ATOM	42170	CB	LYS	I	11	233.108	151.298	-5.550	1.00 68.81	IS9
ATOM	42171	CG	LYS	I	11	233.361	149.850	-5.145	1.00 68.81	IS9
ATOM	42172	CD	LYS	I	11	234.069	149.112	-6.263	1.00 68.81	IS9
ATOM	42173	CE	LYS	I	11	234.524	147.737	-5.828	1.00 68.81	IS9
ATOM	42174	NZ	LYS	I	11	235.069	147.018	-6.994	1.00 68.81	IS9
ATOM	42175	C	LYS	I	11	233.298	152.119	-3.154	1.00 80.74	IS9
ATOM	42176	O	LYS	I	11	234.228	151.322	-3.015	1.00 80.74	IS9
ATOM	42177	N	GLU	I	12	232.924	152.949	-2.191	1.00 82.46	IS9
ATOM	42178	CA	GLU	I	12	233.570	152.973	-0.879	1.00 82.46	IS9
ATOM	42179	CB	GLU	I	12	233.591	151.580	-0.265	1.00114.03	IS9
ATOM	42180	CG	GLU	I	12	233.779	151.634	1.229	1.00114.03	IS9



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ATOM	42181	CD	GLU	I	12	233.773	150.272	1.853	1.00114.03	IS9
ATOM	42182	OE1	GLU	I	12	234.680	149.482	1.516	1.00114.03	IS9
ATOM	42183	OE2	GLU	I	12	232.871	149.990	2.677	1.00114.03	IS9
ATOM	42184	C	GLU	I	12	234.984	153.561	-0.833	1.00 82.46	IS9
ATOM	42185	O	GLU	I	12	235.878	153.035	-0.160	1.00 82.46	IS9
ATOM	42186	N	ALA	I	13	235.161	154.671	-1.540	1.00111.52	IS9
ATOM	42187	CA	ALA	I	13	236.433	155.374	-1.595	1.00111.52	IS9
ATOM	42188	CB	ALA	I	13	237.202	154.962	-2.845	1.00 52.98	IS9
ATOM	42189	C	ALA	I	13	236.127	156.871	-1.628	1.00111.52	IS9
ATOM	42190	O	ALA	I	13	235.156	157.296	-2.260	1.00111.52	IS9
ATOM	42191	N	VAL	I	14	236.935	157.671	-0.937	1.00 68.17	IS9
ATOM	42192	CA	VAL	I	14	236.708	159.107	-0.931	1.00 68.17	IS9
ATOM	42193	CB	VAL	I	14	236.301	159.623	0.457	1.00140.59	IS9
ATOM	42194	CG1	VAL	I	14	235.895	161.085	0.355	1.00140.59	IS9
ATOM	42195	CG2	VAL	I	14	235.157	158.790	1.014	1.00140.59	IS9
ATOM	42196	C	VAL	I	14	237.961	159.831	-1.364	1.00 68.17	IS9
ATOM	42197	O	VAL	I	14	239.060	159.524	-0.907	1.00 68.17	IS9
ATOM	42198	N	ALA	I	15	237.788	160.802	-2.248	1.00155.20	IS9
ATOM	42199	CA	ALA	I	15	238.916	161.557	-2.753	1.00155.20	IS9
ATOM	42200	CB	ALA	I	15	239.203	161.134	-4.204	1.00 29.34	IS9
ATOM	42201	C	ALA	I	15	238.672	163.063	-2.674	1.00155.20	IS9
ATOM	42202	O	ALA	I	15	237.696	163.570	-3.225	1.00155.20	IS9
ATOM	42203	N	ARG	I	16	239.552	163.772	-1.969	1.00 80.30	IS9
ATOM	42204	CA	ARG	I	16	239.444	165.223	-1.856	1.00 80.30	IS9
ATOM	42205	CB	ARG	I	16	239.972	165.708	-0.507	1.00103.70	IS9
ATOM	42206	CG	ARG	I	16	239.374	165.031	0.706	1.00103.70	IS9
ATOM	42207	CD	ARG	I	16	239.880	165.705	1.963	1.00103.70	IS9
ATOM	42208	NE	ARG	I	16	239.982	164.780	3.087	1.00103.70	IS9
ATOM	42209	CZ	ARG	I	16	240.557	165.084	4.248	1.00103.70	IS9
ATOM	42210	NH1	ARG	I	16	241.074	166.293	4.430	1.00103.70	IS9
ATOM	42211	NH2	ARG	I	16	240.636	164.181	5.219	1.00103.70	IS9
ATOM	42212	C	ARG	I	16	240.312	165.803	-2.967	1.00 80.30	IS9
ATOM	42213	O	ARG	I	16	241.528	165.583	-2.990	1.00 80.30	IS9
ATOM	42214	N	VAL	I	17	239.697	166.533	-3.891	1.00104.67	IS9
ATOM	42215	CA	VAL	I	17	240.451	167.116	-4.995	1.00104.67	IS9
ATOM	42216	CB	VAL	I	17	239.813	166.742	-6.360	1.00109.21	IS9
ATOM	42217	CG1	VAL	I	17	240.568	167.409	-7.497	1.00109.21	IS9
ATOM	42218	CG2	VAL	I	17	239.851	165.233	-6.550	1.00109.21	IS9
ATOM	42219	C	VAL	I	17	240.597	168.636	-4.890	1.00104.67	IS9
ATOM	42220	O	VAL	I	17	239.624	169.380	-5.024	1.00104.67	IS9
ATOM	42221	N	PHE	I	18	241.832	169.074	-4.642	1.00 78.48	IS9
ATOM	42222	CA	PHE	I	18	242.178	170.489	-4.514	1.00 78.48	IS9
ATOM	42223	CB	PHE	I	18	243.116	170.700	-3.320	1.00 90.87	IS9
ATOM	42224	CG	PHE	I	18	242.463	170.498	-1.975	1.00 90.87	IS9
ATOM	42225	CD1	PHE	I	18	243.084	169.723	-0.995	1.00 90.87	IS9
ATOM	42226	CD2	PHE	I	18	241.255	171.117	-1.665	1.00 90.87	IS9
ATOM	42227	CE1	PHE	I	18	242.516	169.568	0.278	1.00 90.87	IS9
ATOM	42228	CE2	PHE	I	18	240.682	170.968	-0.396	1.00 90.87	IS9
ATOM	42229	CZ	PHE	I	18	241.318	170.191	0.575	1.00 90.87	IS9
ATOM	42230	C	PHE	I	18	242.873	170.983	-5.782	1.00 78.48	IS9
ATOM	42231	O	PHE	I	18	244.058	170.717	-6.000	1.00 78.48	IS9
ATOM	42232	N	LEU	I	19	242.128	171.691	-6.621	1.00 92.06	IS9
ATOM	42233	CA	LEU	I	19	242.683	172.231	-7.851	1.00 92.06	IS9
ATOM	42234	CB	LEU	I	19	241.599	172.392	-8.912	1.00 96.22	IS9
ATOM	42235	CG	LEU	I	19	241.039	171.101	-9.493	1.00 96.22	IS9
ATOM	42236	CD1	LEU	I	19	240.131	171.424	-10.669	1.00 96.22	IS9
ATOM	42237	CD2	LEU	I	19	242.187	170.219	-9.942	1.00 96.22	IS9
ATOM	42238	C	LEU	I	19	243.316	173.582	-7.582	1.00 92.06	IS9
ATOM	42239	O	LEU	I	19	242.789	174.393	-6.819	1.00 92.06	IS9
ATOM	42240	N	ARG	I	20	244.450	173.824	-8.220	1.00108.89	IS9
ATOM	42241	CA	ARG	I	20	245.161	175.074	-8.049	1.00108.89	IS9
ATOM	42242	CB	ARG	I	20	246.160	174.938	-6.900	1.00115.48	IS9
ATOM	42243	CG	ARG	I	20	245.480	174.603	-5.578	1.00115.48	IS9
ATOM	42244	CD	ARG	I	20	246.447	174.187	-4.474	1.00115.48	IS9
ATOM	42245	NE	ARG	I	20	245.740	173.936	-3.216	1.00115.48	IS9
ATOM	42246	CZ	ARG	I	20	246.306	173.473	-2.102	1.00115.48	IS9
ATOM	42247	NH1	ARG	I	20	247.605	173.199	-2.068	1.00115.48	IS9
ATOM	42248	NH2	ARG	I	20	245.568	173.286	-1.014	1.00115.48	IS9
ATOM	42249	C	ARG	I	20	245.869	175.334	-9.362	1.00108.89	IS9
ATOM	42250	O	ARG	I	20	246.511	174.441	-9.906	1.00108.89	IS9
ATOM	42251	N	PRO	I	21	245.744	176.555	-9.906	1.00143.54	IS9
ATOM	42252	CD	PRO	I	21	244.956	177.701	-9.422	1.00104.70	IS9
ATOM	42253	CA	PRO	I	21	246.400	176.877	-11.177	1.00143.54	IS9
ATOM	42254	CB	PRO	I	21	246.018	178.337	-11.406	1.00104.70	IS9
ATOM	42255	CG	PRO	I	21	244.708	178.460	-10.700	1.00104.70	IS9
ATOM	42256	C	PRO	I	21	247.908	176.686	-11.088	1.00143.54	IS9
ATOM	42257	O	PRO	I	21	248.515	176.954	-10.048	1.00143.54	IS9



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ATOM	42258	N	GLY	I	22	248.506	176.219	-12.179	1.00119.88	IS9
ATOM	42259	CA	GLY	I	22	249.940	176.009	-12.186	1.00119.88	IS9
ATOM	42260	C	GLY	I	22	250.414	174.979	-13.191	1.00119.88	IS9
ATOM	42261	O	GLY	I	22	249.749	174.722	-14.197	1.00119.88	IS9
ATOM	42262	N	ASN	I	23	251.573	174.392	-12.907	1.00120.14	IS9
ATOM	42263	CA	ASN	I	23	252.184	173.384	-13.765	1.00120.14	IS9
ATOM	42264	CB	ASN	I	23	253.299	172.671	-12.994	1.00185.56	IS9
ATOM	42265	CG	ASN	I	23	254.066	171.681	-13.852	1.00185.56	IS9
ATOM	42266	OD1	ASN	I	23	254.936	170.961	-13.359	1.00185.56	IS9
ATOM	42267	ND2	ASN	I	23	253.749	171.641	-15.144	1.00185.56	IS9
ATOM	42268	C	ASN	I	23	251.180	172.353	-14.292	1.00120.14	IS9
ATOM	42269	O	ASN	I	23	250.831	172.354	-15.478	1.00120.14	IS9
ATOM	42270	N	GLY	I	24	250.725	171.476	-13.400	1.00132.47	IS9
ATOM	42271	CA	GLY	I	24	249.779	170.439	-13.775	1.00132.47	IS9
ATOM	42272	C	GLY	I	24	250.122	169.142	-13.072	1.00132.47	IS9
ATOM	42273	O	GLY	I	24	249.696	168.065	-13.492	1.00132.47	IS9
ATOM	42274	N	LYS	I	25	250.896	169.256	-11.994	1.00100.00	IS9
ATOM	42275	CA	LYS	I	25	251.330	168.103	-11.206	1.00100.00	IS9
ATOM	42276	CB	LYS	I	25	252.690	168.399	-10.559	1.00163.23	IS9
ATOM	42277	CG	LYS	I	25	252.772	169.750	-9.860	1.00163.23	IS9
ATOM	42278	CD	LYS	I	25	254.133	169.992	-9.222	1.00163.23	IS9
ATOM	42279	CE	LYS	I	25	255.234	170.126	-10.262	1.00163.23	IS9
ATOM	42280	NZ	LYS	I	25	256.552	170.413	-9.627	1.00163.23	IS9
ATOM	42281	C	LYS	I	25	250.314	167.683	-10.138	1.00100.00	IS9
ATOM	42282	O	LYS	I	25	249.354	168.404	-9.861	1.00100.00	IS9
ATOM	42283	N	VAL	I	26	250.531	166.514	-9.539	1.00 87.40	IS9
ATOM	42284	CA	VAL	I	26	249.612	166.001	-8.527	1.00 87.40	IS9
ATOM	42285	CB	VAL	I	26	248.665	164.972	-9.116	1.00 53.95	IS9
ATOM	42286	CG1	VAL	I	26	247.682	164.556	-8.063	1.00 53.95	IS9
ATOM	42287	CG2	VAL	I	26	247.973	165.532	-10.348	1.00 53.95	IS9
ATOM	42288	C	VAL	I	26	250.273	165.332	-7.333	1.00 87.40	IS9
ATOM	42289	O	VAL	I	26	251.037	164.381	-7.478	1.00 87.40	IS9
ATOM	42290	N	THR	I	27	249.952	165.814	-6.145	1.00 96.28	IS9
ATOM	42291	CA	THR	I	27	250.521	165.237	-4.946	1.00 96.28	IS9
ATOM	42292	CB	THR	I	27	250.864	166.325	-3.919	1.00198.94	IS9
ATOM	42293	OG1	THR	I	27	251.752	167.278	-4.515	1.00198.94	IS9
ATOM	42294	CG2	THR	I	27	251.539	165.715	-2.701	1.00198.94	IS9
ATOM	42295	C	THR	I	27	249.477	164.303	-4.370	1.00 96.28	IS9
ATOM	42296	O	THR	I	27	248.902	164.572	-3.317	1.00 96.28	IS9
ATOM	42297	N	VAL	I	28	249.218	163.205	-5.069	1.00 77.93	IS9
ATOM	42298	CA	VAL	I	28	248.220	162.255	-4.598	1.00 77.93	IS9
ATOM	42299	CB	VAL	I	28	247.911	161.171	-5.650	1.00 74.78	IS9
ATOM	42300	CG1	VAL	I	28	247.121	160.025	-5.009	1.00 74.78	IS9
ATOM	42301	CG2	VAL	I	28	247.105	161.773	-6.776	1.00 74.78	IS9
ATOM	42302	C	VAL	I	28	248.616	161.554	-3.310	1.00 77.93	IS9
ATOM	42303	O	VAL	I	28	249.518	160.716	-3.300	1.00 77.93	IS9
ATOM	42304	N	ASN	I	29	247.927	161.906	-2.228	1.00 97.83	IS9
ATOM	42305	CA	ASN	I	29	248.171	161.301	-0.928	1.00 97.83	IS9
ATOM	42306	CB	ASN	I	29	247.698	159.849	-0.961	1.00 89.05	IS9
ATOM	42307	CG	ASN	I	29	247.276	159.357	0.391	1.00 89.05	IS9
ATOM	42308	OD1	ASN	I	29	246.446	159.987	1.046	1.00 89.05	IS9
ATOM	42309	ND2	ASN	I	29	247.835	158.227	0.824	1.00 89.05	IS9
ATOM	42310	C	ASN	I	29	249.660	161.359	-0.614	1.00 97.83	IS9
ATOM	42311	O	ASN	I	29	250.215	160.472	0.037	1.00 97.83	IS9
ATOM	42312	N	GLY	I	30	250.302	162.423	-1.075	1.00 91.28	IS9
ATOM	42313	CA	GLY	I	30	251.725	162.556	-0.868	1.00 91.28	IS9
ATOM	42314	C	GLY	I	30	252.390	162.176	-2.174	1.00 91.28	IS9
ATOM	42315	O	GLY	I	30	252.414	162.978	-3.106	1.00 91.28	IS9
ATOM	42316	N	GLN	I	31	252.899	160.948	-2.253	1.00 90.10	IS9
ATOM	42317	CA	GLN	I	31	253.578	160.454	-3.453	1.00 90.10	IS9
ATOM	42318	CB	GLN	I	31	253.434	158.943	-3.567	1.00141.02	IS9
ATOM	42319	CG	GLN	I	31	254.120	158.175	-2.471	1.00141.02	IS9
ATOM	42320	CD	GLN	I	31	254.182	156.695	-2.780	1.00141.02	IS9
ATOM	42321	OE1	GLN	I	31	253.153	156.059	-3.027	1.00141.02	IS9
ATOM	42322	NE2	GLN	I	31	255.394	156.135	-2.774	1.00141.02	IS9
ATOM	42323	C	GLN	I	31	253.083	161.086	-4.742	1.00 90.10	IS9
ATOM	42324	O	GLN	I	31	251.923	161.499	-4.846	1.00 90.10	IS9
ATOM	42325	N	ASP	I	32	253.971	161.164	-5.727	1.00 88.60	IS9
ATOM	42326	CA	ASP	I	32	253.605	161.745	-7.006	1.00 88.60	IS9
ATOM	42327	CB	ASP	I	32	254.786	161.687	-7.975	1.00137.49	IS9
ATOM	42328	CG	ASP	I	32	254.537	162.482	-9.241	1.00137.49	IS9
ATOM	42329	OD1	ASP	I	32	253.551	162.192	-9.949	1.00137.49	IS9
ATOM	42330	OD2	ASP	I	32	255.326	163.401	-9.531	1.00137.49	IS9
ATOM	42331	C	ASP	I	32	252.437	160.928	-7.549	1.00 88.60	IS9
ATOM	42332	O	ASP	I	32	252.362	159.722	-7.318	1.00 88.60	IS9
ATOM	42333	N	PHE	I	33	251.519	161.588	-8.250	1.00 95.70	IS9
ATOM	42334	CA	PHE	I	33	250.357	160.913	-8.822	1.00 95.70	IS9



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ATOM	42335	CB	PHE	I	33	249.743	161.776	-9.924	1.00101.63	IS9
ATOM	42336	CG	PHE	I	33	248.567	161.142	-10.620	1.00101.63	IS9
ATOM	42337	CD1	PHE	I	33	247.440	160.761	-9.906	1.00101.63	IS9
ATOM	42338	CD2	PHE	I	33	248.573	160.971	-12.000	1.00101.63	IS9
ATOM	42339	CE1	PHE	I	33	246.335	160.224	-10.553	1.00101.63	IS9
ATOM	42340	CE2	PHE	I	33	247.473	160.434	-12.654	1.00101.63	IS9
ATOM	42341	CZ	PHE	I	33	246.351	160.061	-11.927	1.00101.63	IS9
ATOM	42342	C	PHE	I	33	250.777	159.576	-9.400	1.00 95.70	IS9
ATOM	42343	O	PHE	I	33	250.213	158.537	-9.056	1.00 95.70	IS9
ATOM	42344	N	ASN	I	34	251.789	159.626	-10.266	1.00 77.93	IS9
ATOM	42345	CA	ASN	I	34	252.341	158.453	-10.945	1.00 77.93	IS9
ATOM	42346	CB	ASN	I	34	253.069	158.893	-12.208	1.00132.28	IS9
ATOM	42347	CG	ASN	I	34	252.671	160.285	-12.639	1.00132.28	IS9
ATOM	42348	OD1	ASN	I	34	251.519	160.534	-13.001	1.00132.28	IS9
ATOM	42349	ND2	ASN	I	34	253.621	161.211	-12.585	1.00132.28	IS9
ATOM	42350	C	ASN	I	34	253.305	157.703	-10.042	1.00 77.93	IS9
ATOM	42351	O	ASN	I	34	254.250	157.075	-10.510	1.00 77.93	IS9
ATOM	42352	N	GLU	I	35	253.063	157.788	-8.742	1.00 71.84	IS9
ATOM	42353	CA	GLU	I	35	253.891	157.107	-7.766	1.00 71.84	IS9
ATOM	42354	CB	GLU	I	35	254.657	158.125	-6.915	1.00174.05	IS9
ATOM	42355	CG	GLU	I	35	255.912	157.562	-6.278	1.00174.05	IS9
ATOM	42356	CD	GLU	I	35	256.808	156.875	-7.293	1.00174.05	IS9
ATOM	42357	OE1	GLU	I	35	257.164	157.515	-8.305	1.00174.05	IS9
ATOM	42358	OE2	GLU	I	35	257.157	155.695	-7.080	1.00174.05	IS9
ATOM	42359	C	GLU	I	35	252.947	156.279	-6.902	1.00 71.84	IS9
ATOM	42360	O	GLU	I	35	253.265	155.156	-6.516	1.00 71.84	IS9
ATOM	42361	N	TYR	I	36	251.778	156.835	-6.604	1.00 90.67	IS9
ATOM	42362	CA	TYR	I	36	250.784	156.124	-5.808	1.00 90.67	IS9
ATOM	42363	CB	TYR	I	36	249.767	157.112	-5.219	1.00 98.60	IS9
ATOM	42364	CG	TYR	I	36	248.730	156.486	-4.303	1.00 98.60	IS9
ATOM	42365	CD1	TYR	I	36	249.114	155.689	-3.225	1.00 98.60	IS9
ATOM	42366	CE1	TYR	I	36	248.171	155.123	-2.374	1.00 98.60	IS9
ATOM	42367	CD2	TYR	I	36	247.369	156.703	-4.506	1.00 98.60	IS9
ATOM	42368	CE2	TYR	I	36	246.418	156.141	-3.662	1.00 98.60	IS9
ATOM	42369	CZ	TYR	I	36	246.829	155.351	-2.598	1.00 98.60	IS9
ATOM	42370	OH	TYR	I	36	245.903	154.774	-1.764	1.00 98.60	IS9
ATOM	42371	C	TYR	I	36	250.095	155.170	-6.775	1.00 90.67	IS9
ATOM	42372	O	TYR	I	36	249.615	154.105	-6.392	1.00 90.67	IS9
ATOM	42373	N	PHE	I	37	250.068	155.580	-8.041	1.00 73.80	IS9
ATOM	42374	CA	PHE	I	37	249.463	154.813	-9.122	1.00 73.80	IS9
ATOM	42375	CB	PHE	I	37	248.476	155.699	-9.876	1.00 88.02	IS9
ATOM	42376	CG	PHE	I	37	247.318	156.148	-9.038	1.00 88.02	IS9
ATOM	42377	CD1	PHE	I	37	246.490	157.178	-9.469	1.00 88.02	IS9
ATOM	42378	CD2	PHE	I	37	247.038	155.521	-7.821	1.00 88.02	IS9
ATOM	42379	CE1	PHE	I	37	245.397	157.579	-8.704	1.00 88.02	IS9
ATOM	42380	CE2	PHE	I	37	245.955	155.910	-7.054	1.00 88.02	IS9
ATOM	42381	CZ	PHE	I	37	245.131	156.942	-7.494	1.00 88.02	IS9
ATOM	42382	C	PHE	I	37	250.566	154.319	-10.053	1.00 73.80	IS9
ATOM	42383	O	PHE	I	37	250.531	154.513	-11.273	1.00 73.80	IS9
ATOM	42384	N	GLN	I	38	251.550	153.672	-9.444	1.00 95.29	IS9
ATOM	42385	CA	GLN	I	38	252.695	153.145	-10.159	1.00 95.29	IS9
ATOM	42386	CB	GLN	I	38	253.879	153.047	-9.194	1.00163.62	IS9
ATOM	42387	CG	GLN	I	38	255.249	153.123	-9.838	1.00163.62	IS9
ATOM	42388	CD	GLN	I	38	255.557	151.925	-10.706	1.00163.62	IS9
ATOM	42389	OE1	GLN	I	38	254.902	151.693	-11.724	1.00163.62	IS9
ATOM	42390	NE2	GLN	I	38	256.562	151.152	-10.306	1.00163.62	IS9
ATOM	42391	C	GLN	I	38	252.351	151.774	-10.724	1.00 95.29	IS9
ATOM	42392	O	GLN	I	38	252.351	150.781	-10.000	1.00 95.29	IS9
ATOM	42393	N	GLY	I	39	252.049	151.726	-12.017	1.00 82.39	IS9
ATOM	42394	CA	GLY	I	39	251.717	150.462	-12.653	1.00 82.39	IS9
ATOM	42395	C	GLY	I	39	250.238	150.118	-12.660	1.00 82.39	IS9
ATOM	42396	O	GLY	I	39	249.865	148.987	-12.365	1.00 82.39	IS9
ATOM	42397	N	LEU	I	40	249.393	151.085	-13.004	1.00 63.92	IS9
ATOM	42398	CA	LEU	I	40	247.954	150.861	-13.039	1.00 63.92	IS9
ATOM	42399	CB	LEU	I	40	247.296	151.502	-11.825	1.00 65.80	IS9
ATOM	42400	CG	LEU	I	40	247.804	150.986	-10.479	1.00 65.80	IS9
ATOM	42401	CD1	LEU	I	40	247.202	151.829	-9.360	1.00 65.80	IS9
ATOM	42402	CD2	LEU	I	40	247.444	149.513	-10.313	1.00 65.80	IS9
ATOM	42403	C	LEU	I	40	247.367	151.452	-14.305	1.00 63.92	IS9
ATOM	42404	O	LEU	I	40	246.879	152.587	-14.306	1.00 63.92	IS9
ATOM	42405	N	VAL	I	41	247.408	150.661	-15.373	1.00 77.40	IS9
ATOM	42406	CA	VAL	I	41	246.926	151.059	-16.692	1.00 77.40	IS9
ATOM	42407	CB	VAL	I	41	246.503	149.816	-17.494	1.00135.26	IS9
ATOM	42408	CG1	VAL	I	41	246.346	150.172	-18.964	1.00135.26	IS9
ATOM	42409	CG2	VAL	I	41	247.534	148.717	-17.310	1.00135.26	IS9
ATOM	42410	C	VAL	I	41	245.798	152.100	-16.786	1.00 77.40	IS9
ATOM	42411	O	VAL	I	41	245.744	152.853	-17.757	1.00 77.40	IS9



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ATOM	42412	N	ARG	I	42	244.907	152.158	-15.797	1.00	84.49	IS9
ATOM	42413	CA	ARG	I	42	243.793	153.110	-15.846	1.00	84.49	IS9
ATOM	42414	CB	ARG	I	42	242.524	152.513	-15.234	1.00	93.77	IS9
ATOM	42415	CG	ARG	I	42	242.032	151.214	-15.830	1.00	93.77	IS9
ATOM	42416	CD	ARG	I	42	240.617	150.909	-15.337	1.00	93.77	IS9
ATOM	42417	NE	ARG	I	42	240.400	151.317	-13.946	1.00	93.77	IS9
ATOM	42418	CZ	ARG	I	42	239.617	152.328	-13.569	1.00	93.77	IS9
ATOM	42419	NH1	ARG	I	42	238.958	153.050	-14.470	1.00	93.77	IS9
ATOM	42420	NH2	ARG	I	42	239.497	152.624	-12.284	1.00	93.77	IS9
ATOM	42421	C	ARG	I	42	244.022	154.447	-15.158	1.00	84.49	IS9
ATOM	42422	O	ARG	I	42	243.287	155.395	-15.414	1.00	84.49	IS9
ATOM	42423	N	ALA	I	43	245.010	154.523	-14.272	1.00	93.93	IS9
ATOM	42424	CA	ALA	I	43	245.280	155.760	-13.543	1.00	93.93	IS9
ATOM	42425	CB	ALA	I	43	246.728	155.782	-13.078	1.00	131.59	IS9
ATOM	42426	C	ALA	I	43	244.974	156.995	-14.393	1.00	93.93	IS9
ATOM	42427	O	ALA	I	43	244.359	157.957	-13.920	1.00	93.93	IS9
ATOM	42428	N	VAL	I	44	245.393	156.946	-15.653	1.00	79.36	IS9
ATOM	42429	CA	VAL	I	44	245.183	158.038	-16.598	1.00	79.36	IS9
ATOM	42430	CB	VAL	I	44	245.500	157.584	-18.014	1.00	80.44	IS9
ATOM	42431	CG1	VAL	I	44	245.352	158.745	-18.974	1.00	80.44	IS9
ATOM	42432	CG2	VAL	I	44	246.896	157.006	-18.058	1.00	80.44	IS9
ATOM	42433	C	VAL	I	44	243.759	158.577	-16.602	1.00	79.36	IS9
ATOM	42434	O	VAL	I	44	243.521	159.716	-16.998	1.00	79.36	IS9
ATOM	42435	N	ALA	I	45	242.814	157.751	-16.171	1.00	103.11	IS9
ATOM	42436	CA	ALA	I	45	241.410	158.136	-16.134	1.00	103.11	IS9
ATOM	42437	CB	ALA	I	45	240.553	156.921	-15.839	1.00	119.68	IS9
ATOM	42438	C	ALA	I	45	241.139	159.220	-15.102	1.00	103.11	IS9
ATOM	42439	O	ALA	I	45	240.419	160.180	-15.373	1.00	103.11	IS9
ATOM	42440	N	ALA	I	46	241.712	159.059	-13.915	1.00	92.91	IS9
ATOM	42441	CA	ALA	I	46	241.526	160.029	-12.847	1.00	92.91	IS9
ATOM	42442	CB	ALA	I	46	242.528	159.765	-11.727	1.00	111.15	IS9
ATOM	42443	C	ALA	I	46	241.660	161.472	-13.343	1.00	92.91	IS9
ATOM	42444	O	ALA	I	46	240.887	162.342	-12.941	1.00	92.91	IS9
ATOM	42445	N	LEU	I	47	242.632	161.720	-14.223	1.00	95.84	IS9
ATOM	42446	CA	LEU	I	47	242.872	163.067	-14.754	1.00	95.84	IS9
ATOM	42447	CB	LEU	I	47	244.375	163.316	-14.949	1.00	83.02	IS9
ATOM	42448	CG	LEU	I	47	245.390	162.702	-13.980	1.00	83.02	IS9
ATOM	42449	CD1	LEU	I	47	246.793	163.154	-14.372	1.00	83.02	IS9
ATOM	42450	CD2	LEU	I	47	245.069	163.107	-12.556	1.00	83.02	IS9
ATOM	42451	C	LEU	I	47	242.170	163.314	-16.083	1.00	95.84	IS9
ATOM	42452	O	LEU	I	47	242.238	164.411	-16.634	1.00	95.84	IS9
ATOM	42453	N	GLU	I	48	241.509	162.288	-16.605	1.00	91.39	IS9
ATOM	42454	CA	GLU	I	48	240.797	162.419	-17.870	1.00	91.39	IS9
ATOM	42455	CB	GLU	I	48	240.163	161.077	-18.255	1.00	153.74	IS9
ATOM	42456	CG	GLU	I	48	239.618	161.013	-19.679	1.00	153.74	IS9
ATOM	42457	CD	GLU	I	48	240.702	161.141	-20.737	1.00	153.74	IS9
ATOM	42458	OE1	GLU	I	48	241.384	162.184	-20.771	1.00	153.74	IS9
ATOM	42459	OE2	GLU	I	48	240.871	160.200	-21.541	1.00	153.74	IS9
ATOM	42460	C	GLU	I	48	239.721	163.517	-17.788	1.00	91.39	IS9
ATOM	42461	O	GLU	I	48	239.412	164.175	-18.784	1.00	91.39	IS9
ATOM	42462	N	PRO	I	49	239.135	163.732	-16.597	1.00	92.68	IS9
ATOM	42463	CD	PRO	I	49	239.271	163.040	-15.303	1.00	66.33	IS9
ATOM	42464	CA	PRO	I	49	238.114	164.780	-16.522	1.00	92.68	IS9
ATOM	42465	CB	PRO	I	49	237.528	164.583	-15.125	1.00	66.33	IS9
ATOM	42466	CG	PRO	I	49	238.701	164.045	-14.350	1.00	66.33	IS9
ATOM	42467	C	PRO	I	49	238.705	166.176	-16.729	1.00	92.68	IS9
ATOM	42468	O	PRO	I	49	237.987	167.174	-16.716	1.00	92.68	IS9
ATOM	42469	N	LEU	I	50	240.021	166.236	-16.914	1.00	96.45	IS9
ATOM	42470	CA	LEU	I	50	240.714	167.503	-17.142	1.00	96.45	IS9
ATOM	42471	CB	LEU	I	50	242.136	167.449	-16.593	1.00	80.17	IS9
ATOM	42472	CG	LEU	I	50	242.199	167.473	-15.071	1.00	80.17	IS9
ATOM	42473	CD1	LEU	I	50	243.584	167.095	-14.601	1.00	80.17	IS9
ATOM	42474	CD2	LEU	I	50	241.796	168.853	-14.584	1.00	80.17	IS9
ATOM	42475	C	LEU	I	50	240.761	167.780	-18.629	1.00	96.45	IS9
ATOM	42476	O	LEU	I	50	240.299	168.828	-19.083	1.00	96.45	IS9
ATOM	42477	N	ARG	I	51	241.320	166.832	-19.382	1.00	92.66	IS9
ATOM	42478	CA	ARG	I	51	241.405	166.958	-20.833	1.00	92.66	IS9
ATOM	42479	CB	ARG	I	51	241.874	165.651	-21.472	1.00	167.59	IS9
ATOM	42480	CG	ARG	I	51	243.151	165.087	-20.900	1.00	167.59	IS9
ATOM	42481	CD	ARG	I	51	243.592	163.878	-21.706	1.00	167.59	IS9
ATOM	42482	NE	ARG	I	51	244.708	163.172	-21.082	1.00	167.59	IS9
ATOM	42483	CZ	ARG	I	51	244.626	162.508	-19.933	1.00	167.59	IS9
ATOM	42484	NH1	ARG	I	51	243.476	162.453	-19.273	1.00	167.59	IS9
ATOM	42485	NH2	ARG	I	51	245.698	161.897	-19.443	1.00	167.59	IS9
ATOM	42486	C	ARG	I	51	239.996	167.267	-21.318	1.00	92.66	IS9
ATOM	42487	O	ARG	I	51	239.777	167.615	-22.482	1.00	92.66	IS9
ATOM	42488	N	ALA	I	52	239.043	167.114	-20.405	1.00	95.16	IS9



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ATOM	42489	CA	ALA	I	52	237.649	167.381	-20.688	1.00	95.16	IS9
ATOM	42490	CB	ALA	I	52	236.857	167.373	-19.396	1.00	95.93	IS9
ATOM	42491	C	ALA	I	52	237.571	168.748	-21.338	1.00	95.16	IS9
ATOM	42492	O	ALA	I	52	237.218	168.872	-22.516	1.00	95.16	IS9
ATOM	42493	N	VAL	I	53	237.926	169.765	-20.557	1.00140.49	IS9	
ATOM	42494	CA	VAL	I	53	237.910	171.154	-21.000	1.00140.49	IS9	
ATOM	42495	CB	VAL	I	53	237.190	172.032	-19.968	1.00	94.03	IS9
ATOM	42496	CG1	VAL	I	53	235.710	172.130	-20.312	1.00	94.03	IS9
ATOM	42497	CG2	VAL	I	53	237.374	171.430	-18.569	1.00	94.03	IS9
ATOM	42498	C	VAL	I	53	239.316	171.715	-21.227	1.00140.49	IS9	
ATOM	42499	O	VAL	I	53	239.579	172.888	-20.957	1.00140.49	IS9	
ATOM	42500	N	ASP	I	54	240.207	170.868	-21.734	1.00135.37	IS9	
ATOM	42501	CA	ASP	I	54	241.592	171.249	-22.001	1.00135.37	IS9	
ATOM	42502	CB	ASP	I	54	241.668	172.168	-23.226	1.00157.06	IS9	
ATOM	42503	CG	ASP	I	54	241.297	171.453	-24.518	1.00157.06	IS9	
ATOM	42504	OD1	ASP	I	54	241.877	170.381	-24.798	1.00157.06	IS9	
ATOM	42505	OD2	ASP	I	54	240.430	171.967	-25.258	1.00157.06	IS9	
ATOM	42506	C	ASP	I	54	242.254	171.916	-20.799	1.00135.37	IS9	
ATOM	42507	O	ASP	I	54	242.470	173.126	-20.780	1.00135.37	IS9	
ATOM	42508	N	ALA	I	55	242.566	171.106	-19.794	1.00102.56	IS9	
ATOM	42509	CA	ALA	I	55	243.210	171.585	-18.583	1.00102.56	IS9	
ATOM	42510	CB	ALA	I	55	242.296	171.371	-17.382	1.00136.21	IS9	
ATOM	42511	C	ALA	I	55	244.516	170.818	-18.399	1.00102.56	IS9	
ATOM	42512	O	ALA	I	55	245.290	170.664	-19.349	1.00102.56	IS9	
ATOM	42513	N	LEU	I	56	244.746	170.333	-17.181	1.00129.31	IS9	
ATOM	42514	CA	LEU	I	56	245.955	169.585	-16.844	1.00129.31	IS9	
ATOM	42515	CB	LEU	I	56	246.214	168.487	-17.884	1.00117.14	IS9	
ATOM	42516	CG	LEU	I	56	247.010	167.246	-17.467	1.00117.14	IS9	
ATOM	42517	CD1	LEU	I	56	247.288	166.421	-18.709	1.00117.14	IS9	
ATOM	42518	CD2	LEU	I	56	248.316	167.624	-16.780	1.00117.14	IS9	
ATOM	42519	C	LEU	I	56	247.133	170.556	-16.807	1.00129.31	IS9	
ATOM	42520	O	LEU	I	56	247.536	171.021	-15.738	1.00129.31	IS9	
ATOM	42521	N	GLY	I	57	247.680	170.858	-17.982	1.00181.19	IS9	
ATOM	42522	CA	GLY	I	57	248.794	171.785	-18.070	1.00181.19	IS9	
ATOM	42523	C	GLY	I	57	248.255	173.197	-18.022	1.00181.19	IS9	
ATOM	42524	O	GLY	I	57	248.548	174.031	-18.877	1.00181.19	IS9	
ATOM	42525	N	ARG	I	58	247.447	173.455	-17.003	1.00116.72	IS9	
ATOM	42526	CA	ARG	I	58	246.828	174.752	-16.809	1.00116.72	IS9	
ATOM	42527	CB	ARG	I	58	245.565	174.841	-17.671	1.00112.81	IS9	
ATOM	42528	CG	ARG	I	58	245.009	176.243	-17.901	1.00112.81	IS9	
ATOM	42529	CD	ARG	I	58	244.485	176.907	-16.621	1.00112.81	IS9	
ATOM	42530	NE	ARG	I	58	243.137	177.453	-16.782	1.00112.81	IS9	
ATOM	42531	CZ	ARG	I	58	242.742	178.200	-17.810	1.00112.81	IS9	
ATOM	42532	NH1	ARG	I	58	243.585	178.502	-18.788	1.00112.81	IS9	
ATOM	42533	NH2	ARG	I	58	241.495	178.646	-17.864	1.00112.81	IS9	
ATOM	42534	C	ARG	I	58	246.483	174.808	-15.324	1.00116.72	IS9	
ATOM	42535	O	ARG	I	58	246.342	175.880	-14.733	1.00116.72	IS9	
ATOM	42536	N	PHE	I	59	246.362	173.628	-14.726	1.00	94.83	IS9
ATOM	42537	CA	PHE	I	59	246.047	173.515	-13.312	1.00	94.83	IS9
ATOM	42538	CB	PHE	I	59	244.720	172.810	-13.106	1.00	90.43	IS9
ATOM	42539	CG	PHE	I	59	243.595	173.729	-12.779	1.00	90.43	IS9
ATOM	42540	CD1	PHE	I	59	242.805	174.272	-13.791	1.00	90.43	IS9
ATOM	42541	CD2	PHE	I	59	243.310	174.043	-11.452	1.00	90.43	IS9
ATOM	42542	CE1	PHE	I	59	241.741	175.115	-13.489	1.00	90.43	IS9
ATOM	42543	CE2	PHE	I	59	242.251	174.882	-11.135	1.00	90.43	IS9
ATOM	42544	CZ	PHE	I	59	241.462	175.421	-12.158	1.00	90.43	IS9
ATOM	42545	C	PHE	I	59	247.110	172.741	-12.566	1.00	94.83	IS9
ATOM	42546	O	PHE	I	59	248.234	172.592	-13.031	1.00	94.83	IS9
ATOM	42547	N	ASP	I	60	246.722	172.236	-11.404	1.00	67.03	IS9
ATOM	42548	CA	ASP	I	60	247.607	171.473	-10.536	1.00	67.03	IS9
ATOM	42549	CB	ASP	I	60	248.573	172.424	-9.812	1.00138.10	IS9	
ATOM	42550	CG	ASP	I	60	250.023	171.975	-9.900	1.00138.10	IS9	
ATOM	42551	OD1	ASP	I	60	250.310	170.833	-9.499	1.00138.10	IS9	
ATOM	42552	OD2	ASP	I	60	250.877	172.764	-10.361	1.00138.10	IS9	
ATOM	42553	C	ASP	I	60	246.658	170.815	-9.534	1.00	67.03	IS9
ATOM	42554	O	ASP	I	60	245.527	171.281	-9.359	1.00	67.03	IS9
ATOM	42555	N	ALA	I	61	247.090	169.745	-8.875	1.00	76.04	IS9
ATOM	42556	CA	ALA	I	61	246.202	169.095	-7.923	1.00	76.04	IS9
ATOM	42557	CB	ALA	I	61	245.286	168.128	-8.652	1.00	86.71	IS9
ATOM	42558	C	ALA	I	61	246.859	168.386	-6.752	1.00	76.04	IS9
ATOM	42559	O	ALA	I	61	247.738	167.533	-6.913	1.00	76.04	IS9
ATOM	42560	N	TYR	I	62	246.420	168.771	-5.563	1.00	91.64	IS9
ATOM	42561	CA	TYR	I	62	246.879	168.163	-4.332	1.00	91.64	IS9
ATOM	42562	CB	TYR	I	62	247.060	169.219	-3.249	1.00	78.33	IS9
ATOM	42563	CG	TYR	I	62	247.238	168.642	-1.867	1.00	78.33	IS9
ATOM	42564	CD1	TYR	I	62	248.308	167.805	-1.578	1.00	78.33	IS9
ATOM	42565	CE1	TYR	I	62	248.482	167.265	-0.300	1.00	78.33	IS9



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ATOM	42566	CD2	TYR	I	62	246.337	168.931	-0.844	1.00	78.33	IS9
ATOM	42567	CE2	TYR	I	62	246.502	168.398	0.437	1.00	78.33	IS9
ATOM	42568	CZ	TYR	I	62	247.578	167.566	0.698	1.00	78.33	IS9
ATOM	42569	OH	TYR	I	62	247.767	167.033	1.951	1.00	78.33	IS9
ATOM	42570	C	TYR	I	62	245.671	167.303	-4.017	1.00	91.64	IS9
ATOM	42571	O	TYR	I	62	244.552	167.821	-3.975	1.00	91.64	IS9
ATOM	42572	N	ILE	I	63	245.873	166.003	-3.815	1.00	99.02	IS9
ATOM	42573	CA	ILE	I	63	244.743	165.123	-3.547	1.00	99.02	IS9
ATOM	42574	CB	ILE	I	63	244.434	164.262	-4.786	1.00	93.42	IS9
ATOM	42575	CG2	ILE	I	63	243.202	163.422	-4.533	1.00	93.42	IS9
ATOM	42576	CG1	ILE	I	63	244.193	165.163	-6.002	1.00	93.42	IS9
ATOM	42577	CD1	ILE	I	63	243.892	164.417	-7.293	1.00	93.42	IS9
ATOM	42578	C	ILE	I	63	244.881	164.200	-2.337	1.00	99.02	IS9
ATOM	42579	O	ILE	I	63	245.978	163.744	-2.004	1.00	99.02	IS9
ATOM	42580	N	THR	I	64	243.747	163.941	-1.683	1.00	114.56	IS9
ATOM	42581	CA	THR	I	64	243.684	163.057	-0.519	1.00	114.56	IS9
ATOM	42582	CB	THR	I	64	242.709	163.565	0.547	1.00	118.13	IS9
ATOM	42583	OG1	THR	I	64	242.874	164.976	0.720	1.00	118.13	IS9
ATOM	42584	CG2	THR	I	64	242.961	162.850	1.870	1.00	118.13	IS9
ATOM	42585	C	THR	I	64	243.107	161.755	-1.033	1.00	114.56	IS9
ATOM	42586	O	THR	I	64	242.579	161.715	-2.141	1.00	114.56	IS9
ATOM	42587	N	VAL	I	65	243.172	160.698	-0.232	1.00	93.87	IS9
ATOM	42588	CA	VAL	I	65	242.634	159.418	-0.677	1.00	93.87	IS9
ATOM	42589	CB	VAL	I	65	243.465	158.899	-1.899	1.00	56.68	IS9
ATOM	42590	CG1	VAL	I	65	243.854	157.451	-1.722	1.00	56.68	IS9
ATOM	42591	CG2	VAL	I	65	242.661	159.074	-3.181	1.00	56.68	IS9
ATOM	42592	C	VAL	I	65	242.566	158.365	0.436	1.00	93.87	IS9
ATOM	42593	O	VAL	I	65	243.580	158.004	1.026	1.00	93.87	IS9
ATOM	42594	N	ARG	I	66	241.359	157.886	0.728	1.00	81.42	IS9
ATOM	42595	CA	ARG	I	66	241.179	156.870	1.761	1.00	81.42	IS9
ATOM	42596	CB	ARG	I	66	241.040	157.527	3.134	1.00	138.00	IS9
ATOM	42597	CG	ARG	I	66	241.609	156.698	4.276	1.00	138.00	IS9
ATOM	42598	CD	ARG	I	66	241.041	157.139	5.618	1.00	138.00	IS9
ATOM	42599	NE	ARG	I	66	240.895	158.590	5.722	1.00	138.00	IS9
ATOM	42600	CZ	ARG	I	66	241.903	159.455	5.700	1.00	138.00	IS9
ATOM	42601	NH1	ARG	I	66	243.151	159.023	5.580	1.00	138.00	IS9
ATOM	42602	NH2	ARG	I	66	241.660	160.757	5.790	1.00	138.00	IS9
ATOM	42603	C	ARG	I	66	239.944	156.011	1.486	1.00	81.42	IS9
ATOM	42604	O	ARG	I	66	238.896	156.521	1.077	1.00	81.42	IS9
ATOM	42605	N	GLY	I	67	240.080	154.706	1.708	1.00	95.50	IS9
ATOM	42606	CA	GLY	I	67	238.973	153.790	1.493	1.00	95.50	IS9
ATOM	42607	C	GLY	I	67	238.973	153.082	0.150	1.00	95.50	IS9
ATOM	42608	O	GLY	I	67	239.016	153.721	-0.899	1.00	95.50	IS9
ATOM	42609	N	GLY	I	68	238.936	151.754	0.186	1.00	79.18	IS9
ATOM	42610	CA	GLY	I	68	238.899	150.972	-1.037	1.00	79.18	IS9
ATOM	42611	C	GLY	I	68	240.192	150.386	-1.577	1.00	79.18	IS9
ATOM	42612	O	GLY	I	68	241.021	149.844	-0.844	1.00	79.18	IS9
ATOM	42613	N	GLY	I	69	240.326	150.471	-2.896	1.00	71.04	IS9
ATOM	42614	CA	GLY	I	69	241.498	149.975	-3.597	1.00	71.04	IS9
ATOM	42615	C	GLY	I	69	241.826	151.058	-4.600	1.00	71.04	IS9
ATOM	42616	O	GLY	I	69	240.942	151.828	-4.977	1.00	71.04	IS9
ATOM	42617	N	LYS	I	70	243.074	151.125	-5.046	1.00	82.07	IS9
ATOM	42618	CA	LYS	I	70	243.480	152.173	-5.978	1.00	82.07	IS9
ATOM	42619	CB	LYS	I	70	244.932	151.943	-6.415	1.00	114.80	IS9
ATOM	42620	CG	LYS	I	70	245.859	151.824	-5.208	1.00	114.80	IS9
ATOM	42621	CD	LYS	I	70	247.330	151.965	-5.534	1.00	114.80	IS9
ATOM	42622	CE	LYS	I	70	248.152	151.786	-4.258	1.00	114.80	IS9
ATOM	42623	NZ	LYS	I	70	249.610	152.057	-4.418	1.00	114.80	IS9
ATOM	42624	C	LYS	I	70	242.556	152.355	-7.178	1.00	82.07	IS9
ATOM	42625	O	LYS	I	70	242.411	153.468	-7.681	1.00	82.07	IS9
ATOM	42626	N	SER	I	71	241.916	151.276	-7.618	1.00	78.57	IS9
ATOM	42627	CA	SER	I	71	240.987	151.346	-8.744	1.00	78.57	IS9
ATOM	42628	CB	SER	I	71	240.384	149.966	-9.022	1.00	112.55	IS9
ATOM	42629	OG	SER	I	71	239.185	150.070	-9.769	1.00	112.55	IS9
ATOM	42630	C	SER	I	71	239.867	152.338	-8.435	1.00	78.57	IS9
ATOM	42631	O	SER	I	71	239.644	153.296	-9.182	1.00	78.57	IS9
ATOM	42632	N	GLY	I	72	239.163	152.101	-7.328	1.00	95.62	IS9
ATOM	42633	CA	GLY	I	72	238.076	152.982	-6.936	1.00	95.62	IS9
ATOM	42634	C	GLY	I	72	238.586	154.384	-6.689	1.00	95.62	IS9
ATOM	42635	O	GLY	I	72	238.057	155.355	-7.233	1.00	95.62	IS9
ATOM	42636	N	GLN	I	73	239.620	154.481	-5.859	1.00	65.22	IS9
ATOM	42637	CA	GLN	I	73	240.233	155.757	-5.542	1.00	65.22	IS9
ATOM	42638	CB	GLN	I	73	241.562	155.546	-4.825	1.00	75.65	IS9
ATOM	42639	CG	GLN	I	73	241.495	154.608	-3.637	1.00	75.65	IS9
ATOM	42640	CD	GLN	I	73	242.812	154.553	-2.870	1.00	75.65	IS9
ATOM	42641	OE1	GLN	I	73	243.891	154.519	-3.467	1.00	75.65	IS9
ATOM	42642	NE2	GLN	I	73	242.726	154.534	-1.538	1.00	75.65	IS9



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ATOM	42643	C	GLN	I	73	240.485	156.521	-6.834	1.00	65.22	IS9
ATOM	42644	O	GLN	I	73	240.392	157.745	-6.860	1.00	65.22	IS9
ATOM	42645	N	ILE	I	74	240.808	155.796	-7.905	1.00	68.16	IS9
ATOM	42646	CA	ILE	I	74	241.070	156.426	-9.197	1.00	68.16	IS9
ATOM	42647	CB	ILE	I	74	241.553	155.403	-10.253	1.00	66.53	IS9
ATOM	42648	CG2	ILE	I	74	241.592	156.053	-11.640	1.00	66.53	IS9
ATOM	42649	CG1	ILE	I	74	242.944	154.890	-9.872	1.00	66.53	IS9
ATOM	42650	CD1	ILE	I	74	243.517	153.848	-10.808	1.00	66.53	IS9
ATOM	42651	C	ILE	I	74	239.829	157.122	-9.730	1.00	68.16	IS9
ATOM	42652	O	ILE	I	74	239.915	158.242	-10.245	1.00	68.16	IS9
ATOM	42653	N	ASP	I	75	238.680	156.456	-9.608	1.00104.83	IS9	IS9
ATOM	42654	CA	ASP	I	75	237.409	157.013	-10.069	1.00104.83	IS9	IS9
ATOM	42655	CB	ASP	I	75	236.336	155.921	-10.157	1.00126.52	IS9	IS9
ATOM	42656	CG	ASP	I	75	236.527	155.003	-11.353	1.00126.52	IS9	IS9
ATOM	42657	OD1	ASP	I	75	236.553	155.506	-12.497	1.00126.52	IS9	IS9
ATOM	42658	OD2	ASP	I	75	236.642	153.776	-11.150	1.00126.52	IS9	IS9
ATOM	42659	C	ASP	I	75	236.950	158.113	-9.115	1.00104.83	IS9	IS9
ATOM	42660	O	ASP	I	75	236.446	159.152	-9.545	1.00104.83	IS9	IS9
ATOM	42661	N	ALA	I	76	237.121	157.874	-7.818	1.00	77.01	IS9
ATOM	42662	CA	ALA	I	76	236.745	158.860	-6.812	1.00	77.01	IS9
ATOM	42663	CB	ALA	I	76	237.217	158.407	-5.422	1.00	42.51	IS9
ATOM	42664	C	ALA	I	76	237.466	160.130	-7.221	1.00	77.01	IS9
ATOM	42665	O	ALA	I	76	236.848	161.155	-7.522	1.00	77.01	IS9
ATOM	42666	N	ILE	I	77	238.792	160.021	-7.232	1.00	71.23	IS9
ATOM	42667	CA	ILE	I	77	239.696	161.097	-7.607	1.00	71.23	IS9
ATOM	42668	CB	ILE	I	77	241.135	160.540	-7.757	1.00	71.18	IS9
ATOM	42669	CG2	ILE	I	77	241.951	161.384	-8.722	1.00	71.18	IS9
ATOM	42670	CG1	ILE	I	77	241.781	160.442	-6.373	1.00	71.18	IS9
ATOM	42671	CD1	ILE	I	77	243.157	159.832	-6.386	1.00	71.18	IS9
ATOM	42672	C	ILE	I	77	239.238	161.724	-8.913	1.00	71.23	IS9
ATOM	42673	O	ILE	I	77	239.221	162.944	-9.058	1.00	71.23	IS9
ATOM	42674	N	LYS	I	78	238.859	160.880	-9.860	1.00	65.19	IS9
ATOM	42675	CA	LYS	I	78	238.400	161.356	-11.150	1.00	65.19	IS9
ATOM	42676	CB	LYS	I	78	238.226	160.160	-12.092	1.00	87.78	IS9
ATOM	42677	CG	LYS	I	78	237.820	160.508	-13.510	1.00	87.78	IS9
ATOM	42678	CD	LYS	I	78	236.313	160.501	-13.660	1.00	87.78	IS9
ATOM	42679	CE	LYS	I	78	235.740	159.109	-13.404	1.00	87.78	IS9
ATOM	42680	NZ	LYS	I	78	236.250	158.104	-14.382	1.00	87.78	IS9
ATOM	42681	C	LYS	I	78	237.097	162.151	-11.000	1.00	65.19	IS9
ATOM	42682	O	LYS	I	78	236.799	163.028	-11.819	1.00	65.19	IS9
ATOM	42683	N	LEU	I	79	236.329	161.857	-9.949	1.00	84.01	IS9
ATOM	42684	CA	LEU	I	79	235.071	162.568	-9.703	1.00	84.01	IS9
ATOM	42685	CB	LEU	I	79	234.131	161.747	-8.802	1.00	88.72	IS9
ATOM	42686	CG	LEU	I	79	232.675	162.215	-8.558	1.00	88.72	IS9
ATOM	42687	CD1	LEU	I	79	232.657	163.436	-7.672	1.00	88.72	IS9
ATOM	42688	CD2	LEU	I	79	231.973	162.516	-9.877	1.00	88.72	IS9
ATOM	42689	C	LEU	I	79	235.371	163.907	-9.044	1.00	84.01	IS9
ATOM	42690	O	LEU	I	79	234.652	164.884	-9.249	1.00	84.01	IS9
ATOM	42691	N	GLY	I	80	236.428	163.945	-8.241	1.00	89.50	IS9
ATOM	42692	CA	GLY	I	80	236.801	165.189	-7.594	1.00	89.50	IS9
ATOM	42693	C	GLY	I	80	237.320	166.167	-8.630	1.00	89.50	IS9
ATOM	42694	O	GLY	I	80	236.820	167.286	-8.755	1.00	89.50	IS9
ATOM	42695	N	ILE	I	81	238.330	165.733	-9.378	1.00	85.66	IS9
ATOM	42696	CA	ILE	I	81	238.914	166.550	-10.427	1.00	85.66	IS9
ATOM	42697	CB	ILE	I	81	239.916	165.721	-11.267	1.00	74.30	IS9
ATOM	42698	CG2	ILE	I	81	240.417	166.529	-12.459	1.00	74.30	IS9
ATOM	42699	CG1	ILE	I	81	241.094	165.295	-10.389	1.00	74.30	IS9
ATOM	42700	CD1	ILE	I	81	242.170	164.518	-11.134	1.00	74.30	IS9
ATOM	42701	C	ILE	I	81	237.792	167.076	-11.326	1.00	85.66	IS9
ATOM	42702	O	ILE	I	81	237.892	168.170	-11.892	1.00	85.66	IS9
ATOM	42703	N	ALA	I	82	236.719	166.298	-11.444	1.00114.41	IS9	IS9
ATOM	42704	CA	ALA	I	82	235.576	166.684	-12.267	1.00114.41	IS9	IS9
ATOM	42705	CB	ALA	I	82	234.808	165.440	-12.704	1.00123.67	IS9	IS9
ATOM	42706	C	ALA	I	82	234.648	167.647	-11.520	1.00114.41	IS9	IS9
ATOM	42707	O	ALA	I	82	234.051	168.536	-12.123	1.00114.41	IS9	IS9
ATOM	42708	N	ARG	I	83	234.532	167.469	-10.208	1.00102.60	IS9	IS9
ATOM	42709	CA	ARG	I	83	233.682	168.324	-9.387	1.00102.60	IS9	IS9
ATOM	42710	CB	ARG	I	83	233.451	167.686	-8.018	1.00	99.45	IS9
ATOM	42711	CG	ARG	I	83	232.273	166.728	-7.979	1.00	99.45	IS9
ATOM	42712	CD	ARG	I	83	231.984	166.259	-6.559	1.00	99.45	IS9
ATOM	42713	NE	ARG	I	83	230.603	165.806	-6.423	1.00	99.45	IS9
ATOM	42714	CZ	ARG	I	83	230.096	165.290	-5.310	1.00	99.45	IS9
ATOM	42715	NH1	ARG	I	83	230.865	165.155	-4.237	1.00	99.45	IS9
ATOM	42716	NH2	ARG	I	83	228.820	164.923	-5.267	1.00	99.45	IS9
ATOM	42717	C	ARG	I	83	234.282	169.709	-9.194	1.00102.60	IS9	IS9
ATOM	42718	O	ARG	I	83	233.698	170.714	-9.611	1.00102.60	IS9	IS9
ATOM	42719	N	ALA	I	84	235.441	169.751	-8.543	1.00	82.62	IS9



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ATOM	42720	CA	ALA	I	84	236.148	171.002	-8.286	1.00	82.62	IS9
ATOM	42721	CB	ALA	I	84	237.559	170.708	-7.802	1.00	53.30	IS9
ATOM	42722	C	ALA	I	84	236.204	171.830	-9.561	1.00	82.62	IS9
ATOM	42723	O	ALA	I	84	235.888	173.016	-9.563	1.00	82.62	IS9
ATOM	42724	N	LEU	I	85	236.609	171.181	-10.644	1.00	71.44	IS9
ATOM	42725	CA	LEU	I	85	236.720	171.820	-11.946	1.00	71.44	IS9
ATOM	42726	CB	LEU	I	85	236.969	170.754	-13.019	1.00121.70		IS9
ATOM	42727	CG	LEU	I	85	237.804	171.127	-14.244	1.00121.70		IS9
ATOM	42728	CD1	LEU	I	85	239.270	171.160	-13.845	1.00121.70		IS9
ATOM	42729	CD2	LEU	I	85	237.592	170.109	-15.355	1.00121.70		IS9
ATOM	42730	C	LEU	I	85	235.457	172.613	-12.303	1.00	71.44	IS9
ATOM	42731	O	LEU	I	85	235.501	173.498	-13.158	1.00	71.44	IS9
ATOM	42732	N	VAL	I	86	234.333	172.300	-11.659	1.00124.82		IS9
ATOM	42733	CA	VAL	I	86	233.088	173.008	-11.952	1.00124.82		IS9
ATOM	42734	CB	VAL	I	86	231.859	172.087	-11.817	1.00	98.60	IS9
ATOM	42735	CG1	VAL	I	86	230.609	172.824	-12.273	1.00	98.60	IS9
ATOM	42736	CG2	VAL	I	86	232.048	170.846	-12.663	1.00	98.60	IS9
ATOM	42737	C	VAL	I	86	232.887	174.246	-11.081	1.00124.82		IS9
ATOM	42738	O	VAL	I	86	232.383	175.261	-11.560	1.00124.82		IS9
ATOM	42739	N	GLN	I	87	233.261	174.173	-9.806	1.00143.44		IS9
ATOM	42740	CA	GLN	I	87	233.127	175.343	-8.944	1.00143.44		IS9
ATOM	42741	CB	GLN	I	87	233.711	175.086	-7.558	1.00110.16		IS9
ATOM	42742	CG	GLN	I	87	233.029	173.995	-6.765	1.00110.16		IS9
ATOM	42743	CD	GLN	I	87	233.392	174.064	-5.294	1.00110.16		IS9
ATOM	42744	OE1	GLN	I	87	234.549	174.293	-4.939	1.00110.16		IS9
ATOM	42745	NE2	GLN	I	87	232.405	173.860	-4.428	1.00110.16		IS9
ATOM	42746	C	GLN	I	87	233.942	176.428	-9.628	1.00143.44		IS9
ATOM	42747	O	GLN	I	87	233.515	177.576	-9.737	1.00143.44		IS9
ATOM	42748	N	TYR	I	88	235.128	176.035	-10.082	1.00104.22		IS9
ATOM	42749	CA	TYR	I	88	236.043	176.919	-10.789	1.00104.22		IS9
ATOM	42750	CB	TYR	I	88	237.167	176.101	-11.411	1.00113.07		IS9
ATOM	42751	CG	TYR	I	88	238.114	176.905	-12.255	1.00113.07		IS9
ATOM	42752	CD1	TYR	I	88	239.086	177.701	-11.668	1.00113.07		IS9
ATOM	42753	CE1	TYR	I	88	239.975	178.432	-12.434	1.00113.07		IS9
ATOM	42754	CD2	TYR	I	88	238.047	176.858	-13.645	1.00113.07		IS9
ATOM	42755	CE2	TYR	I	88	238.930	177.585	-14.427	1.00113.07		IS9
ATOM	42756	CZ	TYR	I	88	239.897	178.370	-13.814	1.00113.07		IS9
ATOM	42757	OH	TYR	I	88	240.799	179.078	-14.580	1.00113.07		IS9
ATOM	42758	C	TYR	I	88	235.272	177.633	-11.882	1.00104.22		IS9
ATOM	42759	O	TYR	I	88	235.168	178.854	-11.890	1.00104.22		IS9
ATOM	42760	N	ASN	I	89	234.750	176.859	-12.820	1.00	86.56	IS9
ATOM	42761	CA	ASN	I	89	233.954	177.422	-13.891	1.00	86.56	IS9
ATOM	42762	CB	ASN	I	89	234.725	177.459	-15.208	1.00106.35		IS9
ATOM	42763	CG	ASN	I	89	233.877	177.990	-16.350	1.00106.35		IS9
ATOM	42764	OD1	ASN	I	89	232.890	178.691	-16.121	1.00106.35		IS9
ATOM	42765	ND2	ASN	I	89	234.259	177.671	-17.583	1.00106.35		IS9
ATOM	42766	C	ASN	I	89	232.706	176.569	-14.041	1.00	86.56	IS9
ATOM	42767	O	ASN	I	89	232.733	175.499	-14.659	1.00	86.56	IS9
ATOM	42768	N	PRO	I	90	231.589	177.032	-13.464	1.00130.06		IS9
ATOM	42769	CD	PRO	I	90	231.381	178.399	-12.957	1.00111.55		IS9
ATOM	42770	CA	PRO	I	90	230.319	176.312	-13.527	1.00130.06		IS9
ATOM	42771	CB	PRO	I	90	229.352	177.271	-12.845	1.00111.55		IS9
ATOM	42772	CG	PRO	I	90	229.912	178.608	-13.222	1.00111.55		IS9
ATOM	42773	C	PRO	I	90	229.935	176.030	-14.966	1.00130.06		IS9
ATOM	42774	O	PRO	I	90	229.059	175.210	-15.233	1.00130.06		IS9
ATOM	42775	N	ASP	I	91	230.605	176.712	-15.888	1.00113.68		IS9
ATOM	42776	CA	ASP	I	91	230.339	176.549	-17.310	1.00113.68		IS9
ATOM	42777	CB	ASP	I	91	230.863	177.763	-18.079	1.00146.31		IS9
ATOM	42778	CG	ASP	I	91	230.107	179.031	-17.747	1.00146.31		IS9
ATOM	42779	OD1	ASP	I	91	229.991	179.361	-16.546	1.00146.31		IS9
ATOM	42780	OD2	ASP	I	91	229.634	179.698	-18.691	1.00146.31		IS9
ATOM	42781	C	ASP	I	91	230.938	175.271	-17.898	1.00113.68		IS9
ATOM	42782	O	ASP	I	91	230.739	174.977	-19.077	1.00113.68		IS9
ATOM	42783	N	TYR	I	92	231.667	174.512	-17.086	1.00124.75		IS9
ATOM	42784	CA	TYR	I	92	232.268	173.270	-17.565	1.00124.75		IS9
ATOM	42785	CB	TYR	I	92	233.362	172.804	-16.606	1.00121.19		IS9
ATOM	42786	CG	TYR	I	92	234.653	173.577	-16.744	1.00121.19		IS9
ATOM	42787	CD1	TYR	I	92	235.702	173.376	-15.852	1.00121.19		IS9
ATOM	42788	CE1	TYR	I	92	236.884	174.097	-15.956	1.00121.19		IS9
ATOM	42789	CD2	TYR	I	92	234.822	174.523	-17.758	1.00121.19		IS9
ATOM	42790	CE2	TYR	I	92	236.002	175.248	-17.874	1.00121.19		IS9
ATOM	42791	CZ	TYR	I	92	237.026	175.032	-16.967	1.00121.19		IS9
ATOM	42792	OH	TYR	I	92	238.186	175.764	-17.052	1.00121.19		IS9
ATOM	42793	C	TYR	I	92	231.232	172.170	-17.746	1.00124.75		IS9
ATOM	42794	O	TYR	I	92	231.304	171.394	-18.701	1.00124.75		IS9
ATOM	42795	N	ARG	I	93	230.276	172.102	-16.824	1.00	89.00	IS9
ATOM	42796	CA	ARG	I	93	229.214	171.114	-16.900	1.00	89.00	IS9



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ATOM	42797	CB	ARG	I	93	228.001	171.574	-16.101	1.00123.11	IS9
ATOM	42798	CG	ARG	I	93	228.230	171.615	-14.624	1.00123.11	IS9
ATOM	42799	CD	ARG	I	93	226.916	171.785	-13.908	1.00123.11	IS9
ATOM	42800	NE	ARG	I	93	226.975	171.174	-12.586	1.00123.11	IS9
ATOM	42801	CZ	ARG	I	93	225.935	171.052	-11.770	1.00123.11	IS9
ATOM	42802	NH1	ARG	I	93	224.745	171.503	-12.142	1.00123.11	IS9
ATOM	42803	NH2	ARG	I	93	226.083	170.471	-10.584	1.00123.11	IS9
ATOM	42804	C	ARG	I	93	228.799	170.916	-18.348	1.00 89.00	IS9
ATOM	42805	O	ARG	I	93	228.927	169.826	-18.891	1.00 89.00	IS9
ATOM	42806	N	ALA	I	94	228.313	171.987	-18.965	1.00 95.36	IS9
ATOM	42807	CA	ALA	I	94	227.861	171.967	-20.353	1.00 95.36	IS9
ATOM	42808	CB	ALA	I	94	227.847	173.381	-20.910	1.00132.32	IS9
ATOM	42809	C	ALA	I	94	228.671	171.060	-21.275	1.00 95.36	IS9
ATOM	42810	O	ALA	I	94	228.170	170.625	-22.312	1.00 95.36	IS9
ATOM	42811	N	LYS	I	95	229.920	170.787	-20.912	1.00109.21	IS9
ATOM	42812	CA	LYS	I	95	230.764	169.913	-21.716	1.00109.21	IS9
ATOM	42813	CB	LYS	I	95	231.932	170.699	-22.311	1.00165.51	IS9
ATOM	42814	CG	LYS	I	95	231.937	170.712	-23.830	1.00165.51	IS9
ATOM	42815	CD	LYS	I	95	231.960	169.293	-24.392	1.00165.51	IS9
ATOM	42816	CE	LYS	I	95	231.957	169.290	-25.916	1.00165.51	IS9
ATOM	42817	NZ	LYS	I	95	232.038	167.909	-26.475	1.00165.51	IS9
ATOM	42818	C	LYS	I	95	231.293	168.758	-20.876	1.00109.21	IS9
ATOM	42819	O	LYS	I	95	231.662	167.711	-21.403	1.00109.21	IS9
ATOM	42820	N	LEU	I	96	231.308	168.954	-19.563	1.00 97.28	IS9
ATOM	42821	CA	LEU	I	96	231.792	167.947	-18.627	1.00 97.28	IS9
ATOM	42822	CB	LEU	I	96	232.274	168.642	-17.350	1.00 95.14	IS9
ATOM	42823	CG	LEU	I	96	232.896	167.802	-16.236	1.00 95.14	IS9
ATOM	42824	CD1	LEU	I	96	234.125	167.095	-16.763	1.00 95.14	IS9
ATOM	42825	CD2	LEU	I	96	233.261	168.696	-15.066	1.00 95.14	IS9
ATOM	42826	C	LEU	I	96	230.731	166.891	-18.282	1.00 97.28	IS9
ATOM	42827	O	LEU	I	96	231.065	165.731	-18.028	1.00 97.28	IS9
ATOM	42828	N	LYS	I	97	229.460	167.293	-18.273	1.00105.59	IS9
ATOM	42829	CA	LYS	I	97	228.357	166.381	-17.959	1.00105.59	IS9
ATOM	42830	CB	LYS	I	97	227.121	167.155	-17.503	1.00198.94	IS9
ATOM	42831	CG	LYS	I	97	227.178	167.571	-16.053	1.00198.94	IS9
ATOM	42832	CD	LYS	I	97	225.899	168.257	-15.612	1.00198.94	IS9
ATOM	42833	CE	LYS	I	97	225.957	168.593	-14.131	1.00198.94	IS9
ATOM	42834	NZ	LYS	I	97	224.741	169.298	-13.656	1.00198.94	IS9
ATOM	42835	C	LYS	I	97	227.963	165.444	-19.092	1.00105.59	IS9
ATOM	42836	O	LYS	I	97	227.538	164.323	-18.840	1.00105.59	IS9
ATOM	42837	N	PRO	I	98	228.050	165.903	-20.352	1.00113.84	IS9
ATOM	42838	CD	PRO	I	98	228.142	167.287	-20.849	1.00110.71	IS9
ATOM	42839	CA	PRO	I	98	227.683	164.994	-21.439	1.00113.84	IS9
ATOM	42840	CB	PRO	I	98	227.872	165.855	-22.680	1.00110.71	IS9
ATOM	42841	CG	PRO	I	98	227.434	167.198	-22.193	1.00110.71	IS9
ATOM	42842	C	PRO	I	98	228.596	163.768	-21.417	1.00113.84	IS9
ATOM	42843	O	PRO	I	98	228.288	162.743	-22.019	1.00113.84	IS9
ATOM	42844	N	LEU	I	99	229.724	163.890	-20.719	1.00 86.04	IS9
ATOM	42845	CA	LEU	I	99	230.679	162.792	-20.558	1.00 86.04	IS9
ATOM	42846	CB	LEU	I	99	232.107	163.329	-20.499	1.00118.08	IS9
ATOM	42847	CG	LEU	I	99	232.700	163.802	-21.824	1.00118.08	IS9
ATOM	42848	CD1	LEU	I	99	232.782	162.611	-22.756	1.00118.08	IS9
ATOM	42849	CD2	LEU	I	99	231.852	164.915	-22.436	1.00118.08	IS9
ATOM	42850	C	LEU	I	99	230.325	162.114	-19.237	1.00 86.04	IS9
ATOM	42851	O	LEU	I	99	230.837	161.043	-18.901	1.00 86.04	IS9
ATOM	42852	N	GLY	I	100	229.450	162.785	-18.491	1.00 99.53	IS9
ATOM	42853	CA	GLY	I	100	228.956	162.278	-17.226	1.00 99.53	IS9
ATOM	42854	C	GLY	I	100	229.894	162.249	-16.046	1.00 99.53	IS9
ATOM	42855	O	GLY	I	100	229.478	161.857	-14.960	1.00 99.53	IS9
ATOM	42856	N	PHE	I	101	231.145	162.657	-16.238	1.00100.11	IS9
ATOM	42857	CA	PHE	I	101	232.116	162.650	-15.146	1.00100.11	IS9
ATOM	42858	CB	PHE	I	101	233.322	163.528	-15.479	1.00 97.89	IS9
ATOM	42859	CG	PHE	I	101	234.182	162.990	-16.580	1.00 97.89	IS9
ATOM	42860	CD1	PHE	I	101	234.113	163.529	-17.862	1.00 97.89	IS9
ATOM	42861	CD2	PHE	I	101	235.076	161.955	-16.332	1.00 97.89	IS9
ATOM	42862	CE1	PHE	I	101	234.927	163.046	-18.884	1.00 97.89	IS9
ATOM	42863	CE2	PHE	I	101	235.893	161.462	-17.342	1.00 97.89	IS9
ATOM	42864	CZ	PHE	I	101	235.820	162.010	-18.625	1.00 97.89	IS9
ATOM	42865	C	PHE	I	101	231.515	163.130	-13.832	1.00100.11	IS9
ATOM	42866	O	PHE	I	101	232.098	162.926	-12.766	1.00100.11	IS9
ATOM	42867	N	LEU	I	102	230.353	163.773	-13.914	1.00 88.05	IS9
ATOM	42868	CA	LEU	I	102	229.683	164.282	-12.728	1.00 88.05	IS9
ATOM	42869	CB	LEU	I	102	228.993	165.617	-13.038	1.00 80.87	IS9
ATOM	42870	CG	LEU	I	102	229.906	166.844	-13.192	1.00 80.87	IS9
ATOM	42871	CD1	LEU	I	102	229.080	168.072	-13.519	1.00 80.87	IS9
ATOM	42872	CD2	LEU	I	102	230.693	167.071	-11.896	1.00 80.87	IS9
ATOM	42873	C	LEU	I	102	228.678	163.300	-12.143	1.00 88.05	IS9



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ATOM	42874	O	LEU	I	102	227.739	163.704	-11.470	1.00	88.05	IS9
ATOM	42875	N	THR	I	103	228.875	162.010	-12.397	1.00	97.11	IS9
ATOM	42876	CA	THR	I	103	227.976	160.988	-11.865	1.00	97.11	IS9
ATOM	42877	CB	THR	I	103	227.464	160.040	-12.967	1.00	74.19	IS9
ATOM	42878	OG1	THR	I	103	226.781	160.786	-13.983	1.00	74.19	IS9
ATOM	42879	CG2	THR	I	103	226.515	159.036	-12.375	1.00	74.19	IS9
ATOM	42880	C	THR	I	103	228.717	160.142	-10.835	1.00	97.11	IS9
ATOM	42881	O	THR	I	103	229.912	159.887	-10.977	1.00	97.11	IS9
ATOM	42882	N	ARG	I	104	228.013	159.713	-9.795	1.00	106.05	IS9
ATOM	42883	CA	ARG	I	104	228.631	158.883	-8.768	1.00	106.05	IS9
ATOM	42884	CB	ARG	I	104	228.208	159.367	-7.379	1.00	75.54	IS9
ATOM	42885	CG	ARG	I	104	229.157	158.967	-6.266	1.00	75.54	IS9
ATOM	42886	CD	ARG	I	104	228.768	157.662	-5.612	1.00	75.54	IS9
ATOM	42887	NE	ARG	I	104	229.831	157.149	-4.751	1.00	75.54	IS9
ATOM	42888	CZ	ARG	I	104	229.650	156.253	-3.784	1.00	75.54	IS9
ATOM	42889	NH1	ARG	I	104	228.439	155.770	-3.544	1.00	75.54	IS9
ATOM	42890	NH2	ARG	I	104	230.681	155.818	-3.068	1.00	75.54	IS9
ATOM	42891	C	ARG	I	104	228.150	157.457	-9.013	1.00	106.05	IS9
ATOM	42892	O	ARG	I	104	227.014	157.120	-8.674	1.00	106.05	IS9
ATOM	42893	N	ASP	I	105	229.010	156.632	-9.616	1.00	98.08	IS9
ATOM	42894	CA	ASP	I	105	228.668	155.243	-9.941	1.00	98.08	IS9
ATOM	42895	CB	ASP	I	105	229.863	154.538	-10.596	1.00	126.04	IS9
ATOM	42896	CG	ASP	I	105	229.455	153.301	-11.381	1.00	126.04	IS9
ATOM	42897	OD1	ASP	I	105	229.021	152.316	-10.750	1.00	126.04	IS9
ATOM	42898	OD2	ASP	I	105	229.565	153.314	-12.630	1.00	126.04	IS9
ATOM	42899	C	ASP	I	105	228.207	154.481	-8.700	1.00	98.08	IS9
ATOM	42900	O	ASP	I	105	229.016	154.074	-7.853	1.00	98.08	IS9
ATOM	42901	N	ALA	I	106	226.892	154.288	-8.618	1.00	64.86	IS9
ATOM	42902	CA	ALA	I	106	226.249	153.620	-7.490	1.00	64.86	IS9
ATOM	42903	CB	ALA	I	106	224.741	153.780	-7.613	1.00	115.58	IS9
ATOM	42904	C	ALA	I	106	226.595	152.146	-7.279	1.00	64.86	IS9
ATOM	42905	O	ALA	I	106	226.179	151.551	-6.276	1.00	64.86	IS9
ATOM	42906	N	ARG	I	107	227.349	151.566	-8.215	1.00	60.31	IS9
ATOM	42907	CA	ARG	I	107	227.739	150.160	-8.142	1.00	60.31	IS9
ATOM	42908	CB	ARG	I	107	228.516	149.761	-9.391	1.00	85.08	IS9
ATOM	42909	CG	ARG	I	107	227.641	149.663	-10.627	1.00	85.08	IS9
ATOM	42910	CD	ARG	I	107	228.424	149.139	-11.798	1.00	85.08	IS9
ATOM	42911	NE	ARG	I	107	229.590	149.973	-12.053	1.00	85.08	IS9
ATOM	42912	CZ	ARG	I	107	230.722	149.519	-12.578	1.00	85.08	IS9
ATOM	42913	NH1	ARG	I	107	230.828	148.236	-12.902	1.00	85.08	IS9
ATOM	42914	NH2	ARG	I	107	231.752	150.336	-12.766	1.00	85.08	IS9
ATOM	42915	C	ARG	I	107	228.550	149.875	-6.899	1.00	60.31	IS9
ATOM	42916	O	ARG	I	107	229.603	150.466	-6.693	1.00	60.31	IS9
ATOM	42917	N	VAL	I	108	228.036	148.966	-6.075	1.00	66.26	IS9
ATOM	42918	CA	VAL	I	108	228.662	148.592	-4.813	1.00	66.26	IS9
ATOM	42919	CB	VAL	I	108	227.976	149.295	-3.638	1.00	71.85	IS9
ATOM	42920	CG1	VAL	I	108	228.768	149.081	-2.365	1.00	71.85	IS9
ATOM	42921	CG2	VAL	I	108	227.807	150.768	-3.945	1.00	71.85	IS9
ATOM	42922	C	VAL	I	108	228.534	147.097	-4.565	1.00	66.26	IS9
ATOM	42923	O	VAL	I	108	227.776	146.409	-5.242	1.00	66.26	IS9
ATOM	42924	N	VAL	I	109	229.269	146.604	-3.577	1.00	73.06	IS9
ATOM	42925	CA	VAL	I	109	229.241	145.195	-3.212	1.00	73.06	IS9
ATOM	42926	CB	VAL	I	109	230.241	144.902	-2.089	1.00	77.24	IS9
ATOM	42927	CG1	VAL	I	109	229.848	143.633	-1.358	1.00	77.24	IS9
ATOM	42928	CG2	VAL	I	109	231.626	144.770	-2.657	1.00	77.24	IS9
ATOM	42929	C	VAL	I	109	227.866	144.754	-2.728	1.00	73.06	IS9
ATOM	42930	O	VAL	I	109	227.305	145.347	-1.798	1.00	73.06	IS9
ATOM	42931	N	GLU	I	110	227.343	143.695	-3.344	1.00	77.46	IS9
ATOM	42932	CA	GLU	I	110	226.040	143.153	-2.980	1.00	77.46	IS9
ATOM	42933	CB	GLU	I	110	225.465	142.333	-4.132	1.00	90.28	IS9
ATOM	42934	CG	GLU	I	110	224.136	141.684	-3.819	1.00	90.28	IS9
ATOM	42935	CD	GLU	I	110	223.442	141.160	-5.060	1.00	90.28	IS9
ATOM	42936	OE1	GLU	I	110	223.351	141.927	-6.045	1.00	90.28	IS9
ATOM	42937	OE2	GLU	I	110	222.982	139.995	-5.054	1.00	90.28	IS9
ATOM	42938	C	GLU	I	110	226.131	142.286	-1.729	1.00	77.46	IS9
ATOM	42939	O	GLU	I	110	226.967	141.381	-1.632	1.00	77.46	IS9
ATOM	42940	N	ARG	I	111	225.260	142.592	-0.773	1.00	70.04	IS9
ATOM	42941	CA	ARG	I	111	225.173	141.885	0.497	1.00	70.04	IS9
ATOM	42942	CB	ARG	I	111	223.810	142.189	1.130	1.00	95.40	IS9
ATOM	42943	CG	ARG	I	111	223.560	141.587	2.492	1.00	95.40	IS9
ATOM	42944	CD	ARG	I	111	223.168	140.135	2.396	1.00	95.40	IS9
ATOM	42945	NE	ARG	I	111	222.474	139.705	3.600	1.00	95.40	IS9
ATOM	42946	CZ	ARG	I	111	221.335	140.242	4.023	1.00	95.40	IS9
ATOM	42947	NH1	ARG	I	111	220.769	141.228	3.330	1.00	95.40	IS9
ATOM	42948	NH2	ARG	I	111	220.767	139.800	5.138	1.00	95.40	IS9
ATOM	42949	C	ARG	I	111	225.338	140.393	0.264	1.00	70.04	IS9
ATOM	42950	O	ARG	I	111	225.050	139.910	-0.823	1.00	70.04	IS9



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ATOM	42951	N	LYS	I	112	225.810	139.669	1.274	1.00	43.61	IS9
ATOM	42952	CA	LYS	I	112	226.000	138.223	1.166	1.00	43.61	IS9
ATOM	42953	CB	LYS	I	112	227.290	137.805	1.871	1.00	62.42	IS9
ATOM	42954	CG	LYS	I	112	227.703	136.340	1.662	1.00	62.42	IS9
ATOM	42955	CD	LYS	I	112	226.777	135.346	2.328	1.00	62.42	IS9
ATOM	42956	CE	LYS	I	112	227.133	133.925	1.929	1.00	62.42	IS9
ATOM	42957	NZ	LYS	I	112	226.216	132.904	2.528	1.00	62.42	IS9
ATOM	42958	C	LYS	I	112	224.830	137.489	1.810	1.00	43.61	IS9
ATOM	42959	O	LYS	I	112	224.867	137.204	3.005	1.00	43.61	IS9
ATOM	42960	N	LYS	I	113	223.800	137.176	1.026	1.00	51.46	IS9
ATOM	42961	CA	LYS	I	113	222.632	136.479	1.557	1.00	51.46	IS9
ATOM	42962	CB	LYS	I	113	221.520	136.408	0.522	1.00	59.61	IS9
ATOM	42963	CG	LYS	I	113	220.985	137.751	0.096	1.00	59.61	IS9
ATOM	42964	CD	LYS	I	113	221.941	138.440	-0.834	1.00	59.61	IS9
ATOM	42965	CE	LYS	I	113	221.241	139.544	-1.595	1.00	59.61	IS9
ATOM	42966	NZ	LYS	I	113	222.011	139.881	-2.828	1.00	59.61	IS9
ATOM	42967	C	LYS	I	113	222.972	135.070	1.970	1.00	51.46	IS9
ATOM	42968	O	LYS	I	113	223.856	134.456	1.395	1.00	51.46	IS9
ATOM	42969	N	TYR	I	114	222.270	134.560	2.973	1.00	68.23	IS9
ATOM	42970	CA	TYR	I	114	222.493	133.197	3.437	1.00	68.23	IS9
ATOM	42971	CB	TYR	I	114	221.994	133.041	4.867	1.00	93.57	IS9
ATOM	42972	CG	TYR	I	114	220.527	133.352	5.027	1.00	93.57	IS9
ATOM	42973	CD1	TYR	I	114	219.557	132.396	4.747	1.00	93.57	IS9
ATOM	42974	CE1	TYR	I	114	218.202	132.669	4.924	1.00	93.57	IS9
ATOM	42975	CD2	TYR	I	114	220.107	134.597	5.481	1.00	93.57	IS9
ATOM	42976	CE2	TYR	I	114	218.755	134.882	5.660	1.00	93.57	IS9
ATOM	42977	CZ	TYR	I	114	217.810	133.913	5.384	1.00	93.57	IS9
ATOM	42978	OH	TYR	I	114	216.474	134.173	5.598	1.00	93.57	IS9
ATOM	42979	C	TYR	I	114	221.711	132.300	2.492	1.00	68.23	IS9
ATOM	42980	O	TYR	I	114	220.785	132.755	1.819	1.00	68.23	IS9
ATOM	42981	N	GLY	I	115	222.083	131.028	2.437	1.00	59.79	IS9
ATOM	42982	CA	GLY	I	115	221.410	130.114	1.535	1.00	59.79	IS9
ATOM	42983	C	GLY	I	115	222.227	130.050	0.260	1.00	59.79	IS9
ATOM	42984	O	GLY	I	115	222.378	128.996	-0.348	1.00	59.79	IS9
ATOM	42985	N	LYS	I	116	222.743	131.206	-0.142	1.00	43.63	IS9
ATOM	42986	CA	LYS	I	116	223.582	131.323	-1.320	1.00	43.63	IS9
ATOM	42987	CB	LYS	I	116	223.341	132.653	-2.035	1.00	57.29	IS9
ATOM	42988	CG	LYS	I	116	221.921	132.842	-2.519	1.00	57.29	IS9
ATOM	42989	CD	LYS	I	116	221.446	131.609	-3.260	1.00	57.29	IS9
ATOM	42990	CE	LYS	I	116	220.176	131.881	-4.023	1.00	57.29	IS9
ATOM	42991	NZ	LYS	I	116	219.668	130.636	-4.659	1.00	57.29	IS9
ATOM	42992	C	LYS	I	116	225.019	131.275	-0.834	1.00	43.63	IS9
ATOM	42993	O	LYS	I	116	225.295	131.402	0.363	1.00	43.63	IS9
ATOM	42994	N	HIS	I	117	225.941	131.088	-1.764	1.00	67.71	IS9
ATOM	42995	CA	HIS	I	117	227.345	131.034	-1.408	1.00	67.71	IS9
ATOM	42996	CB	HIS	I	117	228.105	130.164	-2.396	1.00	65.97	IS9
ATOM	42997	CG	HIS	I	117	228.191	128.731	-1.995	1.00	65.97	IS9
ATOM	42998	CD2	HIS	I	117	227.774	127.603	-2.616	1.00	65.97	IS9
ATOM	42999	ND1	HIS	I	117	228.802	128.323	-0.828	1.00	65.97	IS9
ATOM	43000	CE1	HIS	I	117	228.759	127.004	-0.749	1.00	65.97	IS9
ATOM	43001	NE2	HIS	I	117	228.141	126.543	-1.821	1.00	65.97	IS9
ATOM	43002	C	HIS	I	117	227.926	132.419	-1.453	1.00	67.71	IS9
ATOM	43003	O	HIS	I	117	228.933	132.694	-0.812	1.00	67.71	IS9
ATOM	43004	N	LYS	I	118	227.275	133.296	-2.203	1.00	60.72	IS9
ATOM	43005	CA	LYS	I	118	227.797	134.630	-2.388	1.00	60.72	IS9
ATOM	43006	CB	LYS	I	118	228.892	134.581	-3.470	1.00	47.75	IS9
ATOM	43007	CG	LYS	I	118	230.011	133.565	-3.210	1.00	47.75	IS9
ATOM	43008	CD	LYS	I	118	230.922	133.296	-4.425	1.00	47.75	IS9
ATOM	43009	CE	LYS	I	118	231.650	134.539	-4.963	1.00	47.75	IS9
ATOM	43010	NZ	LYS	I	118	230.722	135.475	-5.660	1.00	47.75	IS9
ATOM	43011	C	LYS	I	118	226.734	135.618	-2.833	1.00	60.72	IS9
ATOM	43012	O	LYS	I	118	226.914	136.275	-3.857	1.00	60.72	IS9
ATOM	43013	N	ALA	I	119	225.641	135.748	-2.095	1.00	84.89	IS9
ATOM	43014	CA	ALA	I	119	224.596	136.687	-2.517	1.00	84.89	IS9
ATOM	43015	CB	ALA	I	119	225.210	138.022	-2.986	1.00	14.61	IS9
ATOM	43016	C	ALA	I	119	223.787	136.092	-3.659	1.00	84.89	IS9
ATOM	43017	O	ALA	I	119	222.548	136.112	-3.648	1.00	84.89	IS9
ATOM	43018	N	ARG	I	120	224.495	135.588	-4.663	1.00	64.25	IS9
ATOM	43019	CA	ARG	I	120	223.834	134.992	-5.804	1.00	64.25	IS9
ATOM	43020	CB	ARG	I	120	224.010	135.880	-7.039	1.00	53.89	IS9
ATOM	43021	CG	ARG	I	120	223.342	137.225	-6.866	1.00	53.89	IS9
ATOM	43022	CD	ARG	I	120	223.171	137.977	-8.166	1.00	53.89	IS9
ATOM	43023	NE	ARG	I	120	222.548	139.275	-7.906	1.00	53.89	IS9
ATOM	43024	CZ	ARG	I	120	222.178	140.144	-8.840	1.00	53.89	IS9
ATOM	43025	NH1	ARG	I	120	222.355	139.872	-10.127	1.00	53.89	IS9
ATOM	43026	NH2	ARG	I	120	221.636	141.297	-8.481	1.00	53.89	IS9
ATOM	43027	C	ARG	I	120	224.347	133.594	-6.066	1.00	64.25	IS9



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ATOM	43028	O	ARG	I	120	223.562	132.644	-6.131	1.00	64.25	IS9
ATOM	43029	N	ARG	I	121	225.662	133.463	-6.200	1.00	56.37	IS9
ATOM	43030	CA	ARG	I	121	226.241	132.159	-6.454	1.00	56.37	IS9
ATOM	43031	CB	ARG	I	121	227.750	132.180	-6.186	1.00	83.64	IS9
ATOM	43032	CG	ARG	I	121	228.500	130.965	-6.728	1.00	83.64	IS9
ATOM	43033	CD	ARG	I	121	228.038	129.698	-6.033	1.00	83.64	IS9
ATOM	43034	NE	ARG	I	121	228.657	128.475	-6.542	1.00	83.64	IS9
ATOM	43035	CZ	ARG	I	121	228.648	128.096	-7.818	1.00	83.64	IS9
ATOM	43036	NH1	ARG	I	121	228.054	128.857	-8.734	1.00	83.64	IS9
ATOM	43037	NH2	ARG	I	121	229.211	126.942	-8.171	1.00	83.64	IS9
ATOM	43038	C	ARG	I	121	225.537	131.165	-5.532	1.00	56.37	IS9
ATOM	43039	O	ARG	I	121	225.756	131.155	-4.319	1.00	56.37	IS9
ATOM	43040	N	ALA	I	122	224.664	130.350	-6.124	1.00	63.90	IS9
ATOM	43041	CA	ALA	I	122	223.916	129.345	-5.384	1.00	63.90	IS9
ATOM	43042	CB	ALA	I	122	222.546	129.198	-5.983	1.00	43.55	IS9
ATOM	43043	C	ALA	I	122	224.646	128.003	-5.413	1.00	63.90	IS9
ATOM	43044	O	ALA	I	122	225.269	127.643	-6.413	1.00	63.90	IS9
ATOM	43045	N	PRO	I	123	224.587	127.249	-4.307	1.00	50.98	IS9
ATOM	43046	CD	PRO	I	123	223.783	127.566	-3.125	1.00	19.29	IS9
ATOM	43047	CA	PRO	I	123	225.225	125.934	-4.155	1.00	50.98	IS9
ATOM	43048	CB	PRO	I	123	224.925	125.569	-2.704	1.00	19.29	IS9
ATOM	43049	CG	PRO	I	123	223.616	126.189	-2.499	1.00	19.29	IS9
ATOM	43050	C	PRO	I	123	224.612	124.936	-5.128	1.00	50.98	IS9
ATOM	43051	O	PRO	I	123	223.403	124.990	-5.395	1.00	50.98	IS9
ATOM	43052	N	GLN	I	124	225.438	124.024	-5.644	1.00	85.15	IS9
ATOM	43053	CA	GLN	I	124	224.961	123.039	-6.613	1.00	85.15	IS9
ATOM	43054	CB	GLN	I	124	226.061	122.677	-7.628	1.00	75.88	IS9
ATOM	43055	CG	GLN	I	124	227.101	121.686	-7.138	1.00	75.88	IS9
ATOM	43056	CD	GLN	I	124	227.917	121.102	-8.282	1.00	75.88	IS9
ATOM	43057	OE1	GLN	I	124	228.479	121.841	-9.105	1.00	75.88	IS9
ATOM	43058	NE2	GLN	I	124	227.992	119.771	-8.339	1.00	75.88	IS9
ATOM	43059	C	GLN	I	124	224.437	121.766	-5.979	1.00	85.15	IS9
ATOM	43060	O	GLN	I	124	224.611	121.539	-4.782	1.00	85.15	IS9
ATOM	43061	N	TYR	I	125	223.800	120.937	-6.801	1.00	76.02	IS9
ATOM	43062	CA	TYR	I	125	223.246	119.679	-6.333	1.00	76.02	IS9
ATOM	43063	CB	TYR	I	125	221.758	119.845	-6.084	1.00	70.78	IS9
ATOM	43064	CG	TYR	I	125	221.086	120.563	-7.200	1.00	70.78	IS9
ATOM	43065	CD1	TYR	I	125	220.840	119.923	-8.397	1.00	70.78	IS9
ATOM	43066	CE1	TYR	I	125	220.252	120.589	-9.457	1.00	70.78	IS9
ATOM	43067	CD2	TYR	I	125	220.731	121.900	-7.078	1.00	70.78	IS9
ATOM	43068	CE2	TYR	I	125	220.146	122.584	-8.136	1.00	70.78	IS9
ATOM	43069	CZ	TYR	I	125	219.908	121.918	-9.327	1.00	70.78	IS9
ATOM	43070	OH	TYR	I	125	219.333	122.565	-10.400	1.00	70.78	IS9
ATOM	43071	C	TYR	I	125	223.492	118.514	-7.283	1.00	76.02	IS9
ATOM	43072	O	TYR	I	125	223.953	118.680	-8.414	1.00	76.02	IS9
ATOM	43073	N	SER	I	126	223.169	117.328	-6.795	1.00	87.79	IS9
ATOM	43074	CA	SER	I	126	223.361	116.108	-7.546	1.00	87.79	IS9
ATOM	43075	CB	SER	I	126	223.630	114.958	-6.588	1.00198.94	IS9	
ATOM	43076	OG	SER	I	126	222.529	114.751	-5.715	1.00198.94	IS9	
ATOM	43077	C	SER	I	126	222.166	115.744	-8.390	1.00	87.79	IS9
ATOM	43078	O	SER	I	126	221.804	116.447	-9.331	1.00	87.79	IS9
ATOM	43079	N	LYS	I	127	221.569	114.614	-8.035	1.00101.73	IS9	
ATOM	43080	CA	LYS	I	127	220.410	114.099	-8.730	1.00101.73	IS9	
ATOM	43081	CB	LYS	I	127	220.347	112.576	-8.585	1.00	85.82	IS9
ATOM	43082	CG	LYS	I	127	221.392	111.837	-9.421	1.00	85.82	IS9
ATOM	43083	CD	LYS	I	127	222.830	112.260	-9.104	1.00	85.82	IS9
ATOM	43084	CE	LYS	I	127	223.813	111.523	-10.002	1.00	85.82	IS9
ATOM	43085	NZ	LYS	I	127	225.228	111.812	-9.675	1.00	85.82	IS9
ATOM	43086	C	LYS	I	127	219.138	114.728	-8.202	1.00101.73	IS9	
ATOM	43087	O	LYS	I	127	218.262	114.031	-7.688	1.00101.73	IS9	
ATOM	43088	N	ARG	I	128	219.055	116.052	-8.327	1.00114.15	IS9	
ATOM	43089	CA	ARG	I	128	217.878	116.791	-7.897	1.00114.15	IS9	
ATOM	43090	CB	ARG	I	128	218.018	118.280	-8.241	1.00135.44	IS9	
ATOM	43091	CG	ARG	I	128	216.681	119.001	-8.416	1.00135.44	IS9	
ATOM	43092	CD	ARG	I	128	216.806	120.508	-8.436	1.00135.44	IS9	
ATOM	43093	NE	ARG	I	128	217.306	121.027	-7.167	1.00135.44	IS9	
ATOM	43094	CZ	ARG	I	128	216.959	122.203	-6.652	1.00135.44	IS9	
ATOM	43095	NH1	ARG	I	128	216.101	122.985	-7.293	1.00135.44	IS9	
ATOM	43096	NH2	ARG	I	128	217.480	122.604	-5.504	1.00135.44	IS9	
ATOM	43097	C	ARG	I	128	216.676	116.207	-8.626	1.00114.15	IS9	
ATOM	43098	O	ARG	I	128	216.897	115.324	-9.482	1.00114.15	IS9	
ATOM	43099	OXT	ARG	I	128	215.533	116.631	-8.345	1.00164.41	IS9	
TER	43099		ARG	I	128						IS9
ATOM	43100	CB	LYS	J	3	237.748	169.052	31.423	1.00198.94		JS10
ATOM	43101	CG	LYS	J	3	238.525	170.239	30.897	1.00198.94		JS10
ATOM	43102	CD	LYS	J	3	239.857	169.795	30.315	1.00198.94		JS10
ATOM	43103	CE	LYS	J	3	240.667	170.984	29.831	1.00198.94		JS10



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ATOM	43104	NZ	LYS	J	3	241.971	170.559	29.258	1.00198.94	JS10
ATOM	43105	C	LYS	J	3	235.766	168.106	32.560	1.00129.10	JS10
ATOM	43106	O	LYS	J	3	236.439	167.245	33.123	1.00129.10	JS10
ATOM	43107	N	LYS	J	3	236.621	170.343	33.223	1.00129.10	JS10
ATOM	43108	CA	LYS	J	3	236.412	169.398	32.085	1.00129.10	JS10
ATOM	43109	N	ILE	J	4	234.466	167.966	32.341	1.00111.22	JS10
ATOM	43110	CA	ILE	J	4	233.780	166.750	32.743	1.00111.22	JS10
ATOM	43111	CB	ILE	J	4	232.496	167.069	33.518	1.00127.07	JS10
ATOM	43112	CG2	ILE	J	4	231.671	165.811	33.701	1.00127.07	JS10
ATOM	43113	CG1	ILE	J	4	232.862	167.661	34.879	1.00127.07	JS10
ATOM	43114	CD1	ILE	J	4	231.675	167.932	35.781	1.00127.07	JS10
ATOM	43115	C	ILE	J	4	233.447	165.939	31.499	1.00111.22	JS10
ATOM	43116	O	ILE	J	4	232.603	166.344	30.699	1.00111.22	JS10
ATOM	43117	N	ARG	J	5	234.118	164.798	31.337	1.00105.37	JS10
ATOM	43118	CA	ARG	J	5	233.902	163.945	30.170	1.00105.37	JS10
ATOM	43119	CB	ARG	J	5	235.195	163.241	29.763	1.00108.42	JS10
ATOM	43120	CG	ARG	J	5	235.076	162.504	28.445	1.00108.42	JS10
ATOM	43121	CD	ARG	J	5	236.239	161.558	28.222	1.00108.42	JS10
ATOM	43122	NE	ARG	J	5	237.312	162.131	27.412	1.00108.42	JS10
ATOM	43123	CZ	ARG	J	5	238.422	161.472	27.074	1.00108.42	JS10
ATOM	43124	NH1	ARG	J	5	238.603	160.220	27.483	1.00108.42	JS10
ATOM	43125	NH2	ARG	J	5	239.349	162.052	26.319	1.00108.42	JS10
ATOM	43126	C	ARG	J	5	232.813	162.909	30.382	1.00105.37	JS10
ATOM	43127	O	ARG	J	5	233.010	161.890	31.040	1.00105.37	JS10
ATOM	43128	N	ILE	J	6	231.665	163.192	29.790	1.00131.73	JS10
ATOM	43129	CA	ILE	J	6	230.496	162.338	29.873	1.00131.73	JS10
ATOM	43130	CB	ILE	J	6	229.226	163.196	29.778	1.00 95.72	JS10
ATOM	43131	CG2	ILE	J	6	228.314	162.919	30.945	1.00 95.72	JS10
ATOM	43132	CG1	ILE	J	6	229.606	164.677	29.733	1.00 95.72	JS10
ATOM	43133	CD1	ILE	J	6	228.432	165.601	29.497	1.00 95.72	JS10
ATOM	43134	C	ILE	J	6	230.497	161.366	28.695	1.00131.73	JS10
ATOM	43135	O	ILE	J	6	231.011	161.697	27.629	1.00131.73	JS10
ATOM	43136	N	LYS	J	7	229.937	160.170	28.884	1.00124.01	JS10
ATOM	43137	CA	LYS	J	7	229.841	159.187	27.797	1.00124.01	JS10
ATOM	43138	CB	LYS	J	7	231.058	158.249	27.760	1.00136.78	JS10
ATOM	43139	CG	LYS	J	7	231.270	157.557	26.393	1.00136.78	JS10
ATOM	43140	CD	LYS	J	7	232.518	156.654	26.377	1.00136.78	JS10
ATOM	43141	CE	LYS	J	7	232.744	155.950	25.025	1.00136.78	JS10
ATOM	43142	NZ	LYS	J	7	233.289	156.840	23.957	1.00136.78	JS10
ATOM	43143	C	LYS	J	7	228.555	158.375	27.952	1.00124.01	JS10
ATOM	43144	O	LYS	J	7	228.474	157.442	28.754	1.00124.01	JS10
ATOM	43145	N	LEU	J	8	227.551	158.763	27.174	1.00 97.99	JS10
ATOM	43146	CA	LEU	J	8	226.244	158.123	27.184	1.00 97.99	JS10
ATOM	43147	CB	LEU	J	8	225.175	159.130	26.761	1.00139.81	JS10
ATOM	43148	CG	LEU	J	8	224.882	160.280	27.723	1.00139.81	JS10
ATOM	43149	CD1	LEU	J	8	224.060	161.349	27.044	1.00139.81	JS10
ATOM	43150	CD2	LEU	J	8	224.141	159.735	28.913	1.00139.81	JS10
ATOM	43151	C	LEU	J	8	226.214	156.935	26.240	1.00 97.99	JS10
ATOM	43152	O	LEU	J	8	226.712	157.010	25.120	1.00 97.99	JS10
ATOM	43153	N	ARG	J	9	225.620	155.839	26.694	1.00 88.97	JS10
ATOM	43154	CA	ARG	J	9	225.533	154.635	25.882	1.00 88.97	JS10
ATOM	43155	CB	ARG	J	9	226.603	153.626	26.303	1.00132.58	JS10
ATOM	43156	CG	ARG	J	9	226.553	153.234	27.774	1.00132.58	JS10
ATOM	43157	CD	ARG	J	9	227.600	152.184	28.136	1.00132.58	JS10
ATOM	43158	NE	ARG	J	9	228.957	152.600	27.790	1.00132.58	JS10
ATOM	43159	CZ	ARG	J	9	229.484	152.499	26.574	1.00132.58	JS10
ATOM	43160	NH1	ARG	J	9	228.774	151.989	25.578	1.00132.58	JS10
ATOM	43161	NH2	ARG	J	9	230.723	152.915	26.349	1.00132.58	JS10
ATOM	43162	C	ARG	J	9	224.166	154.014	26.045	1.00 88.97	JS10
ATOM	43163	O	ARG	J	9	223.805	153.556	27.130	1.00 88.97	JS10
ATOM	43164	N	GLY	J	10	223.406	153.997	24.957	1.00142.48	JS10
ATOM	43165	CA	GLY	J	10	222.075	153.426	24.999	1.00142.48	JS10
ATOM	43166	C	GLY	J	10	221.771	152.537	23.812	1.00142.48	JS10
ATOM	43167	O	GLY	J	10	222.585	152.373	22.901	1.00142.48	JS10
ATOM	43168	N	PHE	J	11	220.581	151.958	23.829	1.00124.03	JS10
ATOM	43169	CA	PHE	J	11	220.146	151.081	22.761	1.00124.03	JS10
ATOM	43170	CB	PHE	J	11	219.441	149.867	23.363	1.00 68.00	JS10
ATOM	43171	CG	PHE	J	11	220.385	148.854	23.947	1.00 68.00	JS10
ATOM	43172	CD1	PHE	J	11	219.926	147.881	24.826	1.00 68.00	JS10
ATOM	43173	CD2	PHE	J	11	221.735	148.855	23.590	1.00 68.00	JS10
ATOM	43174	CE1	PHE	J	11	220.798	146.913	25.350	1.00 68.00	JS10
ATOM	43175	CE2	PHE	J	11	222.615	147.899	24.102	1.00 68.00	JS10
ATOM	43176	CZ	PHE	J	11	222.144	146.921	24.987	1.00 68.00	JS10
ATOM	43177	C	PHE	J	11	219.230	151.832	21.809	1.00124.03	JS10
ATOM	43178	O	PHE	J	11	219.231	151.585	20.600	1.00124.03	JS10
ATOM	43179	N	ASP	J	12	218.457	152.759	22.364	1.00 94.05	JS10
ATOM	43180	CA	ASP	J	12	217.536	153.567	21.575	1.00 94.05	JS10



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ATOM	43181	CB	ASP	J	12	216.308	153.917	22.417	1.00130.29	JS10
ATOM	43182	CG	ASP	J	12	215.362	154.856	21.703	1.00130.29	JS10
ATOM	43183	OD1	ASP	J	12	215.701	156.042	21.557	1.00130.29	JS10
ATOM	43184	OD2	ASP	J	12	214.279	154.409	21.278	1.00130.29	JS10
ATOM	43185	C	ASP	J	12	218.222	154.845	21.090	1.00 94.05	JS10
ATOM	43186	O	ASP	J	12	218.652	155.665	21.897	1.00 94.05	JS10
ATOM	43187	N	HIS	J	13	218.318	155.019	19.775	1.00 97.48	JS10
ATOM	43188	CA	HIS	J	13	218.970	156.204	19.228	1.00 97.48	JS10
ATOM	43189	CB	HIS	J	13	219.082	156.103	17.706	1.00111.53	JS10
ATOM	43190	CG	HIS	J	13	217.931	156.722	16.980	1.00111.53	JS10
ATOM	43191	CD2	HIS	J	13	217.794	157.940	16.407	1.00111.53	JS10
ATOM	43192	ND1	HIS	J	13	216.709	156.099	16.851	1.00111.53	JS10
ATOM	43193	CE1	HIS	J	13	215.869	156.909	16.231	1.00111.53	JS10
ATOM	43194	NE2	HIS	J	13	216.503	158.034	15.952	1.00111.53	JS10
ATOM	43195	C	HIS	J	13	218.247	157.510	19.593	1.00 97.48	JS10
ATOM	43196	O	HIS	J	13	218.511	158.559	18.999	1.00 97.48	JS10
ATOM	43197	N	LYS	J	14	217.330	157.447	20.554	1.00 89.43	JS10
ATOM	43198	CA	LYS	J	14	216.594	158.632	20.994	1.00 89.43	JS10
ATOM	43199	CB	LYS	J	14	215.127	158.550	20.572	1.00161.21	JS10
ATOM	43200	CG	LYS	J	14	214.926	158.450	19.073	1.00161.21	JS10
ATOM	43201	CD	LYS	J	14	213.455	158.332	18.708	1.00161.21	JS10
ATOM	43202	CE	LYS	J	14	212.679	159.578	19.107	1.00161.21	JS10
ATOM	43203	NZ	LYS	J	14	211.248	159.502	18.692	1.00161.21	JS10
ATOM	43204	C	LYS	J	14	216.690	158.720	22.509	1.00 89.43	JS10
ATOM	43205	O	LYS	J	14	216.703	159.808	23.077	1.00 89.43	JS10
ATOM	43206	N	THR	J	15	216.759	157.561	23.155	1.00 97.92	JS10
ATOM	43207	CA	THR	J	15	216.878	157.491	24.604	1.00 97.92	JS10
ATOM	43208	CB	THR	J	15	216.867	156.012	25.085	1.00105.40	JS10
ATOM	43209	OG1	THR	J	15	216.528	155.964	26.474	1.00105.40	JS10
ATOM	43210	CG2	THR	J	15	218.237	155.350	24.875	1.00105.40	JS10
ATOM	43211	C	THR	J	15	218.192	158.182	25.007	1.00 97.92	JS10
ATOM	43212	O	THR	J	15	218.287	158.787	26.078	1.00 97.92	JS10
ATOM	43213	N	LEU	J	16	219.198	158.086	24.137	1.00116.76	JS10
ATOM	43214	CA	LEU	J	16	220.487	158.728	24.375	1.00116.76	JS10
ATOM	43215	CB	LEU	J	16	221.594	158.136	23.502	1.00 81.05	JS10
ATOM	43216	CG	LEU	J	16	222.369	156.895	23.948	1.00 81.05	JS10
ATOM	43217	CD1	LEU	J	16	223.570	156.758	23.030	1.00 81.05	JS10
ATOM	43218	CD2	LEU	J	16	222.837	157.007	25.395	1.00 81.05	JS10
ATOM	43219	C	LEU	J	16	220.365	160.201	24.037	1.00116.76	JS10
ATOM	43220	O	LEU	J	16	220.579	161.056	24.895	1.00116.76	JS10
ATOM	43221	N	ASP	J	17	220.034	160.498	22.782	1.00102.33	JS10
ATOM	43222	CA	ASP	J	17	219.885	161.888	22.360	1.00102.33	JS10
ATOM	43223	CB	ASP	J	17	219.173	161.975	21.006	1.00144.38	JS10
ATOM	43224	CG	ASP	J	17	220.045	161.508	19.857	1.00144.38	JS10
ATOM	43225	OD1	ASP	J	17	221.248	161.847	19.845	1.00144.38	JS10
ATOM	43226	OD2	ASP	J	17	219.524	160.815	18.958	1.00144.38	JS10
ATOM	43227	C	ASP	J	17	219.094	162.668	23.411	1.00102.33	JS10
ATOM	43228	O	ASP	J	17	219.447	163.796	23.764	1.00102.33	JS10
ATOM	43229	N	ALA	J	18	218.025	162.055	23.909	1.00121.88	JS10
ATOM	43230	CA	ALA	J	18	217.196	162.672	24.936	1.00121.88	JS10
ATOM	43231	CB	ALA	J	18	216.162	161.675	25.437	1.00 35.11	JS10
ATOM	43232	C	ALA	J	18	218.117	163.082	26.074	1.00121.88	JS10
ATOM	43233	O	ALA	J	18	218.277	164.266	26.366	1.00121.88	JS10
ATOM	43234	N	SER	J	19	218.727	162.081	26.701	1.00 78.58	JS10
ATOM	43235	CA	SER	J	19	219.650	162.298	27.804	1.00 78.58	JS10
ATOM	43236	CB	SER	J	19	220.395	161.008	28.134	1.00108.68	JS10
ATOM	43237	OG	SER	J	19	221.494	161.285	28.983	1.00108.68	JS10
ATOM	43238	C	SER	J	19	220.670	163.397	27.519	1.00 78.58	JS10
ATOM	43239	O	SER	J	19	220.641	164.451	28.149	1.00 78.58	JS10
ATOM	43240	N	ALA	J	20	221.573	163.154	26.575	1.00137.63	JS10
ATOM	43241	CA	ALA	J	20	222.592	164.146	26.247	1.00137.63	JS10
ATOM	43242	CB	ALA	J	20	223.402	163.699	25.030	1.00 60.41	JS10
ATOM	43243	C	ALA	J	20	222.005	165.535	26.003	1.00137.63	JS10
ATOM	43244	O	ALA	J	20	222.472	166.513	26.584	1.00137.63	JS10
ATOM	43245	N	GLN	J	21	220.980	165.630	25.161	1.00 99.93	JS10
ATOM	43246	CA	GLN	J	21	220.384	166.929	24.874	1.00 99.93	JS10
ATOM	43247	CB	GLN	J	21	219.233	166.795	23.884	1.00164.99	JS10
ATOM	43248	CG	GLN	J	21	218.738	168.134	23.380	1.00164.99	JS10
ATOM	43249	CD	GLN	J	21	217.646	167.996	22.348	1.00164.99	JS10
ATOM	43250	OE1	GLN	J	21	216.577	167.450	22.626	1.00164.99	JS10
ATOM	43251	NE2	GLN	J	21	217.907	168.489	21.143	1.00164.99	JS10
ATOM	43252	C	GLN	J	21	219.894	167.612	26.145	1.00 99.93	JS10
ATOM	43253	O	GLN	J	21	219.693	168.829	26.164	1.00 99.93	JS10
ATOM	43254	N	LYS	J	22	219.684	166.829	27.200	1.00167.51	JS10
ATOM	43255	CA	LYS	J	22	219.263	167.388	28.480	1.00167.51	JS10
ATOM	43256	CB	LYS	J	22	218.588	166.333	29.360	1.00169.90	JS10
ATOM	43257	CG	LYS	J	22	217.299	165.750	28.817	1.00169.90	JS10



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ATOM	43258	CD	LYS	J	22	216.597	164.940	29.904	1.00169.90	JS10
ATOM	43259	CE	LYS	J	22	215.374	164.203	29.375	1.00169.90	JS10
ATOM	43260	NZ	LYS	J	22	215.739	163.098	28.442	1.00169.90	JS10
ATOM	43261	C	LYS	J	22	220.546	167.843	29.161	1.00167.51	JS10
ATOM	43262	O	LYS	J	22	220.705	169.017	29.499	1.00167.51	JS10
ATOM	43263	N	ILE	J	23	221.459	166.892	29.346	1.00111.54	JS10
ATOM	43264	CA	ILE	J	23	222.755	167.143	29.969	1.00111.54	JS10
ATOM	43265	CB	ILE	J	23	223.642	165.853	29.939	1.00 65.86	JS10
ATOM	43266	CG2	ILE	J	23	225.118	166.205	30.072	1.00 65.86	JS10
ATOM	43267	CG1	ILE	J	23	223.215	164.897	31.062	1.00 65.86	JS10
ATOM	43268	CD1	ILE	J	23	221.812	164.327	30.913	1.00 65.86	JS10
ATOM	43269	C	ILE	J	23	223.484	168.295	29.275	1.00111.54	JS10
ATOM	43270	O	ILE	J	23	224.403	168.884	29.837	1.00111.54	JS10
ATOM	43271	N	VAL	J	24	223.065	168.623	28.058	1.00138.11	JS10
ATOM	43272	CA	VAL	J	24	223.690	169.709	27.319	1.00138.11	JS10
ATOM	43273	CB	VAL	J	24	223.658	169.453	25.803	1.00195.13	JS10
ATOM	43274	CG1	VAL	J	24	224.144	170.684	25.057	1.00195.13	JS10
ATOM	43275	CG2	VAL	J	24	224.538	168.266	25.465	1.00195.13	JS10
ATOM	43276	C	VAL	J	24	223.027	171.051	27.603	1.00138.11	JS10
ATOM	43277	O	VAL	J	24	223.688	171.986	28.046	1.00138.11	JS10
ATOM	43278	N	GLU	J	25	221.726	171.150	27.353	1.00146.01	JS10
ATOM	43279	CA	GLU	J	25	221.019	172.402	27.593	1.00146.01	JS10
ATOM	43280	CB	GLU	J	25	219.533	172.252	27.267	1.00185.56	JS10
ATOM	43281	CG	GLU	J	25	219.247	172.039	25.794	1.00185.56	JS10
ATOM	43282	CD	GLU	J	25	217.803	172.328	25.439	1.00185.56	JS10
ATOM	43283	OE1	GLU	J	25	217.379	173.496	25.579	1.00185.56	JS10
ATOM	43284	OE2	GLU	J	25	217.091	171.391	25.022	1.00185.56	JS10
ATOM	43285	C	GLU	J	25	221.181	172.900	29.027	1.00146.01	JS10
ATOM	43286	O	GLU	J	25	221.211	174.109	29.270	1.00146.01	JS10
ATOM	43287	N	ALA	J	26	221.288	171.970	29.974	1.00184.62	JS10
ATOM	43288	CA	ALA	J	26	221.452	172.329	31.381	1.00184.62	JS10
ATOM	43289	CB	ALA	J	26	221.368	171.082	32.260	1.00101.74	JS10
ATOM	43290	C	ALA	J	26	222.784	173.033	31.602	1.00184.62	JS10
ATOM	43291	O	ALA	J	26	222.834	174.255	31.743	1.00184.62	JS10
ATOM	43292	N	ALA	J	27	223.865	172.260	31.624	1.00113.64	JS10
ATOM	43293	CA	ALA	J	27	225.194	172.820	31.831	1.00113.64	JS10
ATOM	43294	CB	ALA	J	27	226.256	171.757	31.594	1.00 37.44	JS10
ATOM	43295	C	ALA	J	27	225.468	174.037	30.947	1.00113.64	JS10
ATOM	43296	O	ALA	J	27	226.345	174.842	31.258	1.00113.64	JS10
ATOM	43297	N	ARG	J	28	224.728	174.174	29.848	1.00168.59	JS10
ATOM	43298	CA	ARG	J	28	224.908	175.314	28.947	1.00168.59	JS10
ATOM	43299	CB	ARG	J	28	224.077	175.141	27.673	1.00177.76	JS10
ATOM	43300	CG	ARG	J	28	224.771	174.356	26.576	1.00177.76	JS10
ATOM	43301	CD	ARG	J	28	223.895	174.238	25.337	1.00177.76	JS10
ATOM	43302	NE	ARG	J	28	224.606	173.601	24.232	1.00177.76	JS10
ATOM	43303	CZ	ARG	J	28	225.664	174.129	23.621	1.00177.76	JS10
ATOM	43304	NH1	ARG	J	28	226.133	175.306	24.005	1.00177.76	JS10
ATOM	43305	NH2	ARG	J	28	226.258	173.476	22.632	1.00177.76	JS10
ATOM	43306	C	ARG	J	28	224.502	176.609	29.635	1.00168.59	JS10
ATOM	43307	O	ARG	J	28	224.275	177.628	28.983	1.00168.59	JS10
ATOM	43308	N	ARG	J	29	224.407	176.557	30.959	1.00177.79	JS10
ATOM	43309	CA	ARG	J	29	224.029	177.716	31.755	1.00177.79	JS10
ATOM	43310	CB	ARG	J	29	222.508	177.770	31.899	1.00141.86	JS10
ATOM	43311	CG	ARG	J	29	221.765	177.554	30.598	1.00141.86	JS10
ATOM	43312	CD	ARG	J	29	220.307	177.251	30.852	1.00141.86	JS10
ATOM	43313	NE	ARG	J	29	219.673	176.662	29.678	1.00141.86	JS10
ATOM	43314	CZ	ARG	J	29	218.404	176.271	29.632	1.00141.86	JS10
ATOM	43315	NH1	ARG	J	29	217.626	176.407	30.697	1.00141.86	JS10
ATOM	43316	NH2	ARG	J	29	217.914	175.739	28.521	1.00141.86	JS10
ATOM	43317	C	ARG	J	29	224.673	177.598	33.133	1.00177.79	JS10
ATOM	43318	O	ARG	J	29	224.057	177.934	34.144	1.00177.79	JS10
ATOM	43319	N	SER	J	30	225.913	177.115	33.170	1.00148.62	JS10
ATOM	43320	CA	SER	J	30	226.626	176.950	34.432	1.00148.62	JS10
ATOM	43321	CB	SER	J	30	225.873	175.950	35.312	1.00126.53	JS10
ATOM	43322	OG	SER	J	30	225.525	174.788	34.580	1.00126.53	JS10
ATOM	43323	C	SER	J	30	228.092	176.520	34.289	1.00148.62	JS10
ATOM	43324	O	SER	J	30	228.786	176.326	35.290	1.00148.62	JS10
ATOM	43325	N	GLY	J	31	228.557	176.378	33.049	1.00177.27	JS10
ATOM	43326	CA	GLY	J	31	229.936	175.982	32.795	1.00177.27	JS10
ATOM	43327	C	GLY	J	31	230.386	176.463	31.426	1.00177.27	JS10
ATOM	43328	O	GLY	J	31	230.033	177.570	31.016	1.00177.27	JS10
ATOM	43329	N	ALA	J	32	231.170	175.654	30.717	1.00184.28	JS10
ATOM	43330	CA	ALA	J	32	231.611	176.039	29.378	1.00184.28	JS10
ATOM	43331	CB	ALA	J	32	232.645	175.047	28.836	1.00 99.01	JS10
ATOM	43332	C	ALA	J	32	230.367	176.033	28.496	1.00184.28	JS10
ATOM	43333	O	ALA	J	32	229.244	176.088	29.001	1.00184.28	JS10
ATOM	43334	N	GLN	J	33	230.555	175.957	27.183	1.00198.94	JS10



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ATOM	43335	CA	GLN	J	33	229.413	175.946	26.279	1.00198.94	JS10
ATOM	43336	CB	GLN	J	33	229.628	176.947	25.137	1.00198.94	JS10
ATOM	43337	CG	GLN	J	33	228.352	177.309	24.385	1.00198.94	JS10
ATOM	43338	CD	GLN	J	33	228.467	178.618	23.623	1.00198.94	JS10
ATOM	43339	OE1	GLN	J	33	229.295	178.757	22.721	1.00198.94	JS10
ATOM	43340	NE2	GLN	J	33	227.633	179.588	23.985	1.00198.94	JS10
ATOM	43341	C	GLN	J	33	229.164	174.545	25.727	1.00198.94	JS10
ATOM	43342	O	GLN	J	33	228.454	174.372	24.736	1.00198.94	JS10
ATOM	43343	N	VAL	J	34	229.756	173.548	26.381	1.00150.92	JS10
ATOM	43344	CA	VAL	J	34	229.586	172.158	25.977	1.00150.92	JS10
ATOM	43345	CB	VAL	J	34	228.079	171.797	25.958	1.00111.04	JS10
ATOM	43346	CG1	VAL	J	34	227.888	170.331	25.630	1.00111.04	JS10
ATOM	43347	CG2	VAL	J	34	227.453	172.131	27.306	1.00111.04	JS10
ATOM	43348	C	VAL	J	34	230.195	171.899	24.595	1.00150.92	JS10
ATOM	43349	O	VAL	J	34	230.075	172.732	23.694	1.00150.92	JS10
ATOM	43350	N	SER	J	35	230.854	170.750	24.434	1.00150.87	JS10
ATOM	43351	CA	SER	J	35	231.473	170.389	23.154	1.00150.87	JS10
ATOM	43352	CB	SER	J	35	232.518	169.277	23.329	1.00121.74	JS10
ATOM	43353	OG	SER	J	35	233.364	169.494	24.442	1.00121.74	JS10
ATOM	43354	C	SER	J	35	230.406	169.878	22.191	1.00150.87	JS10
ATOM	43355	O	SER	J	35	230.725	169.235	21.193	1.00150.87	JS10
ATOM	43356	N	GLY	J	36	229.143	170.162	22.497	1.00123.36	JS10
ATOM	43357	CA	GLY	J	36	228.057	169.697	21.655	1.00123.36	JS10
ATOM	43358	C	GLY	J	36	228.028	168.188	21.737	1.00123.36	JS10
ATOM	43359	O	GLY	J	36	229.064	167.552	21.576	1.00123.36	JS10
ATOM	43360	N	PRO	J	37	226.866	167.577	21.991	1.00133.12	JS10
ATOM	43361	CD	PRO	J	37	225.501	168.114	21.861	1.00137.65	JS10
ATOM	43362	CA	PRO	J	37	226.848	166.114	22.072	1.00133.12	JS10
ATOM	43363	CB	PRO	J	37	225.360	165.796	22.167	1.00137.65	JS10
ATOM	43364	CG	PRO	J	37	224.733	166.909	21.374	1.00137.65	JS10
ATOM	43365	C	PRO	J	37	227.505	165.515	20.833	1.00133.12	JS10
ATOM	43366	O	PRO	J	37	227.226	165.942	19.713	1.00133.12	JS10
ATOM	43367	N	ILE	J	38	228.385	164.538	21.032	1.00119.35	JS10
ATOM	43368	CA	ILE	J	38	229.070	163.916	19.906	1.00119.35	JS10
ATOM	43369	CB	ILE	J	38	230.584	163.951	20.090	1.00122.68	JS10
ATOM	43370	CG2	ILE	J	38	231.204	164.790	18.988	1.00122.68	JS10
ATOM	43371	CG1	ILE	J	38	230.924	164.505	21.474	1.00122.68	JS10
ATOM	43372	CD1	ILE	J	38	232.410	164.621	21.748	1.00122.68	JS10
ATOM	43373	C	ILE	J	38	228.650	162.480	19.629	1.00119.35	JS10
ATOM	43374	O	ILE	J	38	228.622	161.638	20.528	1.00119.35	JS10
ATOM	43375	N	PRO	J	39	228.344	162.185	18.358	1.00105.16	JS10
ATOM	43376	CD	PRO	J	39	228.669	163.096	17.250	1.00 83.00	JS10
ATOM	43377	CA	PRO	J	39	227.907	160.891	17.833	1.00105.16	JS10
ATOM	43378	CB	PRO	J	39	228.017	161.080	16.322	1.00 83.00	JS10
ATOM	43379	CG	PRO	J	39	229.062	162.135	16.185	1.00 83.00	JS10
ATOM	43380	C	PRO	J	39	228.652	159.655	18.320	1.00105.16	JS10
ATOM	43381	O	PRO	J	39	228.110	158.883	19.103	1.00105.16	JS10
ATOM	43382	N	LEU	J	40	229.885	159.467	17.859	1.00 78.60	JS10
ATOM	43383	CA	LEU	J	40	230.674	158.294	18.240	1.00 78.60	JS10
ATOM	43384	CB	LEU	J	40	230.685	158.082	19.762	1.00132.27	JS10
ATOM	43385	CG	LEU	J	40	231.803	158.716	20.601	1.00132.27	JS10
ATOM	43386	CD1	LEU	J	40	231.553	158.448	22.076	1.00132.27	JS10
ATOM	43387	CD2	LEU	J	40	233.149	158.143	20.192	1.00132.27	JS10
ATOM	43388	C	LEU	J	40	230.092	157.058	17.572	1.00 78.60	JS10
ATOM	43389	O	LEU	J	40	228.935	156.699	17.797	1.00 78.60	JS10
ATOM	43390	N	PRO	J	41	230.895	156.385	16.741	1.00 85.56	JS10
ATOM	43391	CD	PRO	J	41	232.338	156.591	16.562	1.00 73.24	JS10
ATOM	43392	CA	PRO	J	41	230.466	155.183	16.030	1.00 85.56	JS10
ATOM	43393	CB	PRO	J	41	231.769	154.670	15.423	1.00 73.24	JS10
ATOM	43394	CG	PRO	J	41	232.808	155.191	16.349	1.00 73.24	JS10
ATOM	43395	C	PRO	J	41	229.756	154.141	16.893	1.00 85.56	JS10
ATOM	43396	O	PRO	J	41	230.111	153.921	18.054	1.00 85.56	JS10
ATOM	43397	N	THR	J	42	228.750	153.508	16.293	1.00 87.16	JS10
ATOM	43398	CA	THR	J	42	227.931	152.490	16.940	1.00 87.16	JS10
ATOM	43399	CB	THR	J	42	226.500	152.554	16.389	1.00 69.26	JS10
ATOM	43400	OG1	THR	J	42	225.948	153.855	16.648	1.00 69.26	JS10
ATOM	43401	CG2	THR	J	42	225.631	151.472	17.020	1.00 69.26	JS10
ATOM	43402	C	THR	J	42	228.487	151.089	16.693	1.00 87.16	JS10
ATOM	43403	O	THR	J	42	229.116	150.849	15.668	1.00 87.16	JS10
ATOM	43404	N	ARG	J	43	228.257	150.170	17.629	1.00110.15	JS10
ATOM	43405	CA	ARG	J	43	228.731	148.792	17.485	1.00110.15	JS10
ATOM	43406	CB	ARG	J	43	229.666	148.413	18.626	1.00126.75	JS10
ATOM	43407	CG	ARG	J	43	231.090	148.882	18.432	1.00126.75	JS10
ATOM	43408	CD	ARG	J	43	232.023	148.081	19.319	1.00126.75	JS10
ATOM	43409	NE	ARG	J	43	233.419	148.484	19.178	1.00126.75	JS10
ATOM	43410	CZ	ARG	J	43	234.426	147.910	19.829	1.00126.75	JS10
ATOM	43411	NH1	ARG	J	43	234.190	146.903	20.664	1.00126.75	JS10



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ATOM	43412	NH2	ARG	J	43	235.667	148.345	19.652	1.00126.75	JS10
ATOM	43413	C	ARG	J	43	227.591	147.784	17.435	1.00110.15	JS10
ATOM	43414	O	ARG	J	43	226.928	147.545	18.446	1.00110.15	JS10
ATOM	43415	N	VAL	J	44	227.396	147.177	16.264	1.00 79.09	JS10
ATOM	43416	CA	VAL	J	44	226.325	146.205	16.046	1.00 79.09	JS10
ATOM	43417	CB	VAL	J	44	225.744	146.354	14.620	1.00 75.78	JS10
ATOM	43418	CG1	VAL	J	44	224.740	145.244	14.341	1.00 75.78	JS10
ATOM	43419	CG2	VAL	J	44	225.083	147.718	14.468	1.00 75.78	JS10
ATOM	43420	C	VAL	J	44	226.694	144.734	16.269	1.00 79.09	JS10
ATOM	43421	O	VAL	J	44	227.783	144.284	15.908	1.00 79.09	JS10
ATOM	43422	N	ARG	J	45	225.752	144.002	16.860	1.00 92.81	JS10
ATOM	43423	CA	ARG	J	45	225.878	142.577	17.165	1.00 92.81	JS10
ATOM	43424	CB	ARG	J	45	225.600	142.342	18.638	1.00103.41	JS10
ATOM	43425	CG	ARG	J	45	226.675	142.803	19.550	1.00103.41	JS10
ATOM	43426	CD	ARG	J	45	227.673	141.700	19.722	1.00103.41	JS10
ATOM	43427	NE	ARG	J	45	228.214	141.714	21.072	1.00103.41	JS10
ATOM	43428	CZ	ARG	J	45	227.474	141.532	22.156	1.00103.41	JS10
ATOM	43429	NH1	ARG	J	45	226.171	141.319	22.035	1.00103.41	JS10
ATOM	43430	NH2	ARG	J	45	228.036	141.575	23.353	1.00103.41	JS10
ATOM	43431	C	ARG	J	45	224.849	141.776	16.366	1.00 92.81	JS10
ATOM	43432	O	ARG	J	45	223.666	142.115	16.371	1.00 92.81	JS10
ATOM	43433	N	ARG	J	46	225.287	140.708	15.701	1.00100.45	JS10
ATOM	43434	CA	ARG	J	46	224.373	139.875	14.914	1.00100.45	JS10
ATOM	43435	CB	ARG	J	46	224.922	139.612	13.508	1.00 92.05	JS10
ATOM	43436	CG	ARG	J	46	225.482	140.808	12.768	1.00 92.05	JS10
ATOM	43437	CD	ARG	J	46	224.446	141.861	12.510	1.00 92.05	JS10
ATOM	43438	NE	ARG	J	46	224.721	142.534	11.251	1.00 92.05	JS10
ATOM	43439	CZ	ARG	J	46	224.070	143.609	10.824	1.00 92.05	JS10
ATOM	43440	NH1	ARG	J	46	223.103	144.142	11.561	1.00 92.05	JS10
ATOM	43441	NH2	ARG	J	46	224.379	144.141	9.651	1.00 92.05	JS10
ATOM	43442	C	ARG	J	46	224.158	138.526	15.580	1.00100.45	JS10
ATOM	43443	O	ARG	J	46	225.022	138.028	16.303	1.00100.45	JS10
ATOM	43444	N	PHE	J	47	223.000	137.935	15.333	1.00123.50	JS10
ATOM	43445	CA	PHE	J	47	222.700	136.628	15.880	1.00123.50	JS10
ATOM	43446	CB	PHE	J	47	221.818	136.731	17.118	1.00 89.59	JS10
ATOM	43447	CG	PHE	J	47	222.330	137.685	18.139	1.00 89.59	JS10
ATOM	43448	CD1	PHE	J	47	221.901	139.011	18.143	1.00 89.59	JS10
ATOM	43449	CD2	PHE	J	47	223.267	137.276	19.077	1.00 89.59	JS10
ATOM	43450	CE1	PHE	J	47	222.402	139.923	19.073	1.00 89.59	JS10
ATOM	43451	CE2	PHE	J	47	223.781	138.176	20.014	1.00 89.59	JS10
ATOM	43452	CZ	PHE	J	47	223.348	139.504	20.012	1.00 89.59	JS10
ATOM	43453	C	PHE	J	47	221.969	135.881	14.793	1.00123.50	JS10
ATOM	43454	O	PHE	J	47	220.768	135.640	14.882	1.00123.50	JS10
ATOM	43455	N	THR	J	48	222.699	135.535	13.745	1.00 67.63	JS10
ATOM	43456	CA	THR	J	48	222.107	134.812	12.642	1.00 67.63	JS10
ATOM	43457	CB	THR	J	48	223.105	134.655	11.526	1.00 88.91	JS10
ATOM	43458	OG1	THR	J	48	223.510	135.954	11.083	1.00 88.91	JS10
ATOM	43459	CG2	THR	J	48	222.487	133.899	10.383	1.00 88.91	JS10
ATOM	43460	C	THR	J	48	221.689	133.451	13.156	1.00 67.63	JS10
ATOM	43461	O	THR	J	48	222.517	132.684	13.645	1.00 67.63	JS10
ATOM	43462	N	VAL	J	49	220.401	133.153	13.040	1.00 74.53	JS10
ATOM	43463	CA	VAL	J	49	219.889	131.894	13.545	1.00 74.53	JS10
ATOM	43464	CB	VAL	J	49	219.146	132.129	14.868	1.00 51.33	JS10
ATOM	43465	CG1	VAL	J	49	218.544	130.832	15.378	1.00 51.33	JS10
ATOM	43466	CG2	VAL	J	49	220.107	132.691	15.882	1.00 51.33	JS10
ATOM	43467	C	VAL	J	49	218.965	131.129	12.616	1.00 74.53	JS10
ATOM	43468	O	VAL	J	49	218.156	131.719	11.906	1.00 74.53	JS10
ATOM	43469	N	ILE	J	50	219.106	129.807	12.640	1.00 53.97	JS10
ATOM	43470	CA	ILE	J	50	218.275	128.908	11.854	1.00 53.97	JS10
ATOM	43471	CB	ILE	J	50	218.632	127.440	12.178	1.00 48.07	JS10
ATOM	43472	CG2	ILE	J	50	217.413	126.541	12.028	1.00 48.07	JS10
ATOM	43473	CG1	ILE	J	50	219.788	126.975	11.289	1.00 48.07	JS10
ATOM	43474	CD1	ILE	J	50	220.094	125.478	11.405	1.00 48.07	JS10
ATOM	43475	C	ILE	J	50	216.857	129.182	12.328	1.00 53.97	JS10
ATOM	43476	O	ILE	J	50	216.621	129.194	13.530	1.00 53.97	JS10
ATOM	43477	N	ARG	J	51	215.915	129.396	11.412	1.00 71.12	JS10
ATOM	43478	CA	ARG	J	51	214.534	129.677	11.807	1.00 71.12	JS10
ATOM	43479	CB	ARG	J	51	213.664	129.935	10.590	1.00 50.15	JS10
ATOM	43480	CG	ARG	J	51	213.316	131.375	10.391	1.00 50.15	JS10
ATOM	43481	CD	ARG	J	51	213.479	131.707	8.935	1.00 50.15	JS10
ATOM	43482	NE	ARG	J	51	213.544	133.142	8.668	1.00 50.15	JS10
ATOM	43483	CZ	ARG	J	51	212.572	133.996	8.971	1.00 50.15	JS10
ATOM	43484	NH1	ARG	J	51	211.456	133.557	9.566	1.00 50.15	JS10
ATOM	43485	NH2	ARG	J	51	212.707	135.280	8.651	1.00 50.15	JS10
ATOM	43486	C	ARG	J	51	213.878	128.593	12.646	1.00 71.12	JS10
ATOM	43487	O	ARG	J	51	213.758	128.742	13.861	1.00 71.12	JS10
ATOM	43488	N	GLY	J	52	213.431	127.515	12.006	1.00 61.50	JS10



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ATOM	43489	CA	GLY	J	52	212.792	126.448	12.757	1.00	61.50	JS10
ATOM	43490	C	GLY	J	52	213.826	125.574	13.437	1.00	61.50	JS10
ATOM	43491	O	GLY	J	52	215.022	125.856	13.356	1.00	61.50	JS10
ATOM	43492	N	PRO	J	53	213.407	124.537	14.167	1.00	67.60	JS10
ATOM	43493	CD	PRO	J	53	212.080	124.410	14.799	1.00	26.46	JS10
ATOM	43494	CA	PRO	J	53	214.399	123.666	14.823	1.00	67.60	JS10
ATOM	43495	CB	PRO	J	53	213.730	123.319	16.124	1.00	26.46	JS10
ATOM	43496	CG	PRO	J	53	212.254	123.182	15.675	1.00	26.46	JS10
ATOM	43497	C	PRO	J	53	214.602	122.415	13.969	1.00	67.60	JS10
ATOM	43498	O	PRO	J	53	213.861	122.190	13.008	1.00	67.60	JS10
ATOM	43499	N	PHE	J	54	215.597	121.604	14.298	1.00	91.38	JS10
ATOM	43500	CA	PHE	J	54	215.828	120.368	13.544	1.00	91.38	JS10
ATOM	43501	CB	PHE	J	54	214.747	119.355	13.911	1.00	89.54	JS10
ATOM	43502	CG	PHE	J	54	215.044	117.963	13.460	1.00	89.54	JS10
ATOM	43503	CD1	PHE	J	54	215.781	117.101	14.271	1.00	89.54	JS10
ATOM	43504	CD2	PHE	J	54	214.600	117.514	12.220	1.00	89.54	JS10
ATOM	43505	CE1	PHE	J	54	216.070	115.813	13.854	1.00	89.54	JS10
ATOM	43506	CE2	PHE	J	54	214.883	116.230	11.790	1.00	89.54	JS10
ATOM	43507	CZ	PHE	J	54	215.620	115.376	12.608	1.00	89.54	JS10
ATOM	43508	C	PHE	J	54	215.855	120.507	12.009	1.00	91.38	JS10
ATOM	43509	O	PHE	J	54	214.804	120.599	11.368	1.00	91.38	JS10
ATOM	43510	N	LYS	J	55	217.057	120.496	11.432	1.00	71.70	JS10
ATOM	43511	CA	LYS	J	55	217.250	120.594	9.983	1.00	71.70	JS10
ATOM	43512	CB	LYS	J	55	216.631	119.376	9.288	1.00	79.32	JS10
ATOM	43513	CG	LYS	J	55	215.229	119.562	8.754	1.00	79.32	JS10
ATOM	43514	CD	LYS	J	55	214.495	118.232	8.770	1.00	79.32	JS10
ATOM	43515	CE	LYS	J	55	213.380	118.166	7.728	1.00	79.32	JS10
ATOM	43516	NZ	LYS	J	55	213.865	117.552	6.454	1.00	79.32	JS10
ATOM	43517	C	LYS	J	55	216.697	121.884	9.393	1.00	71.70	JS10
ATOM	43518	O	LYS	J	55	216.084	122.671	10.099	1.00	71.70	JS10
ATOM	43519	N	HIS	J	56	216.923	122.082	8.096	1.00	58.54	JS10
ATOM	43520	CA	HIS	J	56	216.499	123.278	7.355	1.00	58.54	JS10
ATOM	43521	CB	HIS	J	56	215.243	123.917	7.965	1.00	73.34	JS10
ATOM	43522	CG	HIS	J	56	214.004	123.085	7.826	1.00	73.34	JS10
ATOM	43523	CD2	HIS	J	56	213.227	122.480	8.757	1.00	73.34	JS10
ATOM	43524	ND1	HIS	J	56	213.421	122.811	6.608	1.00	73.34	JS10
ATOM	43525	CE1	HIS	J	56	212.339	122.074	6.793	1.00	73.34	JS10
ATOM	43526	NE2	HIS	J	56	212.199	121.859	8.087	1.00	73.34	JS10
ATOM	43527	C	HIS	J	56	217.640	124.299	7.354	1.00	58.54	JS10
ATOM	43528	O	HIS	J	56	217.412	125.495	7.219	1.00	58.54	JS10
ATOM	43529	N	LYS	J	57	218.866	123.791	7.486	1.00	57.39	JS10
ATOM	43530	CA	LYS	J	57	220.100	124.586	7.526	1.00	57.39	JS10
ATOM	43531	CB	LYS	J	57	221.270	123.820	6.871	1.00	111.30	JS10
ATOM	43532	CG	LYS	J	57	221.319	123.938	5.314	1.00	111.30	JS10
ATOM	43533	CD	LYS	J	57	222.733	123.717	4.704	1.00	111.30	JS10
ATOM	43534	CE	LYS	J	57	222.818	124.028	3.192	1.00	111.30	JS10
ATOM	43535	NZ	LYS	J	57	224.211	124.048	2.641	1.00	111.30	JS10
ATOM	43536	C	LYS	J	57	220.046	125.976	6.894	1.00	57.39	JS10
ATOM	43537	O	LYS	J	57	220.857	126.837	7.251	1.00	57.39	JS10
ATOM	43538	N	ASP	J	58	219.125	126.196	5.956	1.00	49.02	JS10
ATOM	43539	CA	ASP	J	58	219.034	127.487	5.281	1.00	49.02	JS10
ATOM	43540	CB	ASP	J	58	218.886	127.291	3.775	1.00	94.42	JS10
ATOM	43541	CG	ASP	J	58	220.131	126.709	3.138	1.00	94.42	JS10
ATOM	43542	OD1	ASP	J	58	221.219	127.302	3.311	1.00	94.42	JS10
ATOM	43543	OD2	ASP	J	58	220.022	125.662	2.461	1.00	94.42	JS10
ATOM	43544	C	ASP	J	58	217.916	128.390	5.758	1.00	49.02	JS10
ATOM	43545	O	ASP	J	58	217.559	129.344	5.068	1.00	49.02	JS10
ATOM	43546	N	SER	J	59	217.371	128.102	6.936	1.00	82.52	JS10
ATOM	43547	CA	SER	J	59	216.280	128.894	7.493	1.00	82.52	JS10
ATOM	43548	CB	SER	J	59	215.809	128.284	8.817	1.00	126.87	JS10
ATOM	43549	OG	SER	J	59	215.218	127.008	8.632	1.00	126.87	JS10
ATOM	43550	C	SER	J	59	216.724	130.327	7.721	1.00	82.52	JS10
ATOM	43551	O	SER	J	59	216.447	131.211	6.912	1.00	82.52	JS10
ATOM	43552	N	ARG	J	60	217.401	130.541	8.842	1.00	104.16	JS10
ATOM	43553	CA	ARG	J	60	217.922	131.845	9.223	1.00	104.16	JS10
ATOM	43554	CB	ARG	J	60	218.815	132.391	8.120	1.00	68.63	JS10
ATOM	43555	CG	ARG	J	60	220.181	131.753	8.154	1.00	68.63	JS10
ATOM	43556	CD	ARG	J	60	220.053	130.246	8.289	1.00	68.63	JS10
ATOM	43557	NE	ARG	J	60	221.165	129.630	9.010	1.00	68.63	JS10
ATOM	43558	CZ	ARG	J	60	222.368	129.405	8.493	1.00	68.63	JS10
ATOM	43559	NH1	ARG	J	60	222.637	129.745	7.240	1.00	68.63	JS10
ATOM	43560	NH2	ARG	J	60	223.300	128.814	9.222	1.00	68.63	JS10
ATOM	43561	C	ARG	J	60	216.931	132.904	9.660	1.00	104.16	JS10
ATOM	43562	O	ARG	J	60	215.799	132.605	9.992	1.00	104.16	JS10
ATOM	43563	N	GLU	J	61	217.403	134.143	9.667	1.00	84.45	JS10
ATOM	43564	CA	GLU	J	61	216.678	135.344	10.097	1.00	84.45	JS10
ATOM	43565	CB	GLU	J	61	215.414	135.027	10.916	1.00	57.85	JS10



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ATOM	43566	CG	GLU	J	61	214.876	136.233	11.710	1.00	57.85	JS10
ATOM	43567	CD	GLU	J	61	213.501	136.008	12.319	1.00	57.85	JS10
ATOM	43568	OE1	GLU	J	61	213.300	134.984	13.012	1.00	57.85	JS10
ATOM	43569	OE2	GLU	J	61	212.620	136.874	12.106	1.00	57.85	JS10
ATOM	43570	C	GLU	J	61	217.688	136.046	11.003	1.00	84.45	JS10
ATOM	43571	O	GLU	J	61	218.170	135.460	11.982	1.00	84.45	JS10
ATOM	43572	N	HIS	J	62	217.997	137.295	10.669	1.00	94.58	JS10
ATOM	43573	CA	HIS	J	62	218.972	138.088	11.409	1.00	94.58	JS10
ATOM	43574	CB	HIS	J	62	219.755	138.964	10.428	1.00	79.84	JS10
ATOM	43575	CG	HIS	J	62	220.673	138.195	9.535	1.00	79.84	JS10
ATOM	43576	CD2	HIS	J	62	221.351	137.041	9.736	1.00	79.84	JS10
ATOM	43577	ND1	HIS	J	62	220.984	138.607	8.257	1.00	79.84	JS10
ATOM	43578	CE1	HIS	J	62	221.813	137.737	7.707	1.00	79.84	JS10
ATOM	43579	NE2	HIS	J	62	222.052	136.778	8.584	1.00	79.84	JS10
ATOM	43580	C	HIS	J	62	218.452	138.965	12.548	1.00	94.58	JS10
ATOM	43581	O	HIS	J	62	217.358	139.532	12.491	1.00	94.58	JS10
ATOM	43582	N	PHE	J	63	219.284	139.075	13.577	1.00	84.28	JS10
ATOM	43583	CA	PHE	J	63	218.991	139.873	14.751	1.00	84.28	JS10
ATOM	43584	CB	PHE	J	63	218.660	138.968	15.930	1.00	70.19	JS10
ATOM	43585	CG	PHE	J	63	217.415	138.171	15.743	1.00	70.19	JS10
ATOM	43586	CD1	PHE	J	63	217.374	136.833	16.119	1.00	70.19	JS10
ATOM	43587	CD2	PHE	J	63	216.274	138.761	15.209	1.00	70.19	JS10
ATOM	43588	CE1	PHE	J	63	216.217	136.093	15.967	1.00	70.19	JS10
ATOM	43589	CE2	PHE	J	63	215.112	138.034	15.054	1.00	70.19	JS10
ATOM	43590	CZ	PHE	J	63	215.080	136.695	15.433	1.00	70.19	JS10
ATOM	43591	C	PHE	J	63	220.246	140.656	15.072	1.00	84.28	JS10
ATOM	43592	O	PHE	J	63	221.330	140.082	15.164	1.00	84.28	JS10
ATOM	43593	N	GLU	J	64	220.106	141.963	15.234	1.00	85.50	JS10
ATOM	43594	CA	GLU	J	64	221.249	142.786	15.562	1.00	85.50	JS10
ATOM	43595	CB	GLU	J	64	221.778	143.498	14.319	1.00	100.42	JS10
ATOM	43596	CG	GLU	J	64	220.713	144.190	13.501	1.00	100.42	JS10
ATOM	43597	CD	GLU	J	64	220.878	145.698	13.452	1.00	100.42	JS10
ATOM	43598	OE1	GLU	J	64	220.363	146.384	14.366	1.00	100.42	JS10
ATOM	43599	OE2	GLU	J	64	221.526	146.194	12.499	1.00	100.42	JS10
ATOM	43600	C	GLU	J	64	220.918	143.799	16.637	1.00	85.50	JS10
ATOM	43601	O	GLU	J	64	219.961	144.566	16.513	1.00	85.50	JS10
ATOM	43602	N	LEU	J	65	221.716	143.771	17.702	1.00	91.23	JS10
ATOM	43603	CA	LEU	J	65	221.584	144.678	18.839	1.00	91.23	JS10
ATOM	43604	CB	LEU	J	65	221.841	143.903	20.136	1.00	64.50	JS10
ATOM	43605	CG	LEU	J	65	221.999	144.619	21.478	1.00	64.50	JS10
ATOM	43606	CD1	LEU	J	65	221.920	143.597	22.609	1.00	64.50	JS10
ATOM	43607	CD2	LEU	J	65	223.330	145.350	21.521	1.00	64.50	JS10
ATOM	43608	C	LEU	J	65	222.646	145.750	18.633	1.00	91.23	JS10
ATOM	43609	O	LEU	J	65	223.832	145.448	18.677	1.00	91.23	JS10
ATOM	43610	N	ARG	J	66	222.233	146.992	18.403	1.00	71.27	JS10
ATOM	43611	CA	ARG	J	66	223.197	148.066	18.162	1.00	71.27	JS10
ATOM	43612	CB	ARG	J	66	222.787	148.851	16.915	1.00	149.39	JS10
ATOM	43613	CG	ARG	J	66	221.315	148.720	16.556	1.00	149.39	JS10
ATOM	43614	CD	ARG	J	66	221.018	149.367	15.207	1.00	149.39	JS10
ATOM	43615	NE	ARG	J	66	221.981	148.963	14.182	1.00	149.39	JS10
ATOM	43616	CZ	ARG	J	66	221.912	149.312	12.899	1.00	149.39	JS10
ATOM	43617	NH1	ARG	J	66	220.917	150.077	12.461	1.00	149.39	JS10
ATOM	43618	NH2	ARG	J	66	222.847	148.900	12.051	1.00	149.39	JS10
ATOM	43619	C	ARG	J	66	223.439	149.027	19.327	1.00	71.27	JS10
ATOM	43620	O	ARG	J	66	222.590	149.860	19.650	1.00	71.27	JS10
ATOM	43621	N	THR	J	67	224.612	148.903	19.946	1.00	98.69	JS10
ATOM	43622	CA	THR	J	67	225.000	149.752	21.071	1.00	98.69	JS10
ATOM	43623	CB	THR	J	67	226.185	149.139	21.871	1.00	77.74	JS10
ATOM	43624	OG1	THR	J	67	225.715	148.051	22.681	1.00	77.74	JS10
ATOM	43625	CG2	THR	J	67	226.831	150.188	22.765	1.00	77.74	JS10
ATOM	43626	C	THR	J	67	225.418	151.125	20.566	1.00	98.69	JS10
ATOM	43627	O	THR	J	67	226.392	151.253	19.824	1.00	98.69	JS10
ATOM	43628	N	HIS	J	68	224.682	152.149	20.980	1.00	108.63	JS10
ATOM	43629	CA	HIS	J	68	224.970	153.517	20.566	1.00	108.63	JS10
ATOM	43630	CB	HIS	J	68	223.663	154.285	20.398	1.00	87.85	JS10
ATOM	43631	CG	HIS	J	68	222.792	153.765	19.298	1.00	87.85	JS10
ATOM	43632	CD2	HIS	J	68	221.748	152.902	19.322	1.00	87.85	JS10
ATOM	43633	ND1	HIS	J	68	222.949	154.142	17.981	1.00	87.85	JS10
ATOM	43634	CE1	HIS	J	68	222.036	153.536	17.243	1.00	87.85	JS10
ATOM	43635	NE2	HIS	J	68	221.294	152.778	18.032	1.00	87.85	JS10
ATOM	43636	C	HIS	J	68	225.883	154.245	21.555	1.00	108.63	JS10
ATOM	43637	O	HIS	J	68	225.992	153.857	22.721	1.00	108.63	JS10
ATOM	43638	N	ASN	J	69	226.526	155.310	21.082	1.00	98.19	JS10
ATOM	43639	CA	ASN	J	69	227.451	156.077	21.909	1.00	98.19	JS10
ATOM	43640	CB	ASN	J	69	228.893	155.718	21.519	1.00	81.29	JS10
ATOM	43641	CG	ASN	J	69	229.175	154.230	21.633	1.00	81.29	JS10
ATOM	43642	OD1	ASN	J	69	229.295	153.686	22.733	1.00	81.29	JS10



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ATOM	43643	ND2	ASN	J	69	229.268	153.559	20.490	1.00	81.29	JS10
ATOM	43644	C	ASN	J	69	227.252	157.594	21.800	1.00	98.19	JS10
ATOM	43645	O	ASN	J	69	226.728	158.090	20.803	1.00	98.19	JS10
ATOM	43646	N	ARG	J	70	227.670	158.311	22.845	1.00143.97		JS10
ATOM	43647	CA	ARG	J	70	227.590	159.774	22.920	1.00143.97		JS10
ATOM	43648	CB	ARG	J	70	226.244	160.219	23.499	1.00127.83		JS10
ATOM	43649	CG	ARG	J	70	225.053	159.818	22.653	1.00127.83		JS10
ATOM	43650	CD	ARG	J	70	225.170	160.377	21.250	1.00127.83		JS10
ATOM	43651	NE	ARG	J	70	224.345	159.625	20.310	1.00127.83		JS10
ATOM	43652	CZ	ARG	J	70	224.345	159.821	18.996	1.00127.83		JS10
ATOM	43653	NH1	ARG	J	70	225.128	160.750	18.462	1.00127.83		JS10
ATOM	43654	NH2	ARG	J	70	223.566	159.085	18.214	1.00127.83		JS10
ATOM	43655	C	ARG	J	70	228.727	160.270	23.814	1.00143.97		JS10
ATOM	43656	O	ARG	J	70	229.172	159.551	24.712	1.00143.97		JS10
ATOM	43657	N	LEU	J	71	229.191	161.496	23.583	1.00147.61		JS10
ATOM	43658	CA	LEU	J	71	230.299	162.028	24.369	1.00147.61		JS10
ATOM	43659	CB	LEU	J	71	231.536	162.122	23.480	1.00113.21		JS10
ATOM	43660	CG	LEU	J	71	232.892	161.810	24.117	1.00113.21		JS10
ATOM	43661	CD1	LEU	J	71	233.200	162.813	25.209	1.00113.21		JS10
ATOM	43662	CD2	LEU	J	71	232.879	160.387	24.674	1.00113.21		JS10
ATOM	43663	C	LEU	J	71	230.033	163.378	25.045	1.00147.61		JS10
ATOM	43664	O	LEU	J	71	230.017	163.468	26.275	1.00147.61		JS10
ATOM	43665	N	VAL	J	72	229.850	164.426	24.248	1.00157.27		JS10
ATOM	43666	CA	VAL	J	72	229.579	165.763	24.777	1.00157.27		JS10
ATOM	43667	CB	VAL	J	72	228.486	165.703	25.869	1.00122.75		JS10
ATOM	43668	CG1	VAL	J	72	228.137	167.100	26.342	1.00122.75		JS10
ATOM	43669	CG2	VAL	J	72	227.248	165.002	25.316	1.00122.75		JS10
ATOM	43670	C	VAL	J	72	230.816	166.492	25.328	1.00157.27		JS10
ATOM	43671	O	VAL	J	72	231.573	167.076	24.556	1.00157.27		JS10
ATOM	43672	N	ASP	J	73	231.014	166.463	26.648	1.00105.37		JS10
ATOM	43673	CA	ASP	J	73	232.157	167.130	27.301	1.00105.37		JS10
ATOM	43674	CB	ASP	J	73	233.441	166.945	26.475	1.00	86.58	JS10
ATOM	43675	CG	ASP	J	73	234.247	165.735	26.912	1.00	86.58	JS10
ATOM	43676	OD1	ASP	J	73	233.650	164.773	27.443	1.00	86.58	JS10
ATOM	43677	OD2	ASP	J	73	235.478	165.741	26.715	1.00	86.58	JS10
ATOM	43678	C	ASP	J	73	231.963	168.625	27.597	1.00105.37		JS10
ATOM	43679	O	ASP	J	73	231.877	169.448	26.681	1.00105.37		JS10
ATOM	43680	N	ILE	J	74	231.898	168.960	28.887	1.00119.69		JS10
ATOM	43681	CA	ILE	J	74	231.732	170.343	29.347	1.00119.69		JS10
ATOM	43682	CB	ILE	J	74	230.558	170.504	30.350	1.00	93.50	JS10
ATOM	43683	CG2	ILE	J	74	229.580	171.548	29.840	1.00	93.50	JS10
ATOM	43684	CG1	ILE	J	74	229.873	169.157	30.592	1.00	93.50	JS10
ATOM	43685	CD1	ILE	J	74	228.801	169.190	31.660	1.00	93.50	JS10
ATOM	43686	C	ILE	J	74	232.989	170.772	30.086	1.00119.69		JS10
ATOM	43687	O	ILE	J	74	233.221	170.342	31.216	1.00119.69		JS10
ATOM	43688	N	ILE	J	75	233.805	171.606	29.451	1.00198.94		JS10
ATOM	43689	CA	ILE	J	75	235.024	172.086	30.089	1.00198.94		JS10
ATOM	43690	CB	ILE	J	75	236.020	172.646	29.047	1.00169.59		JS10
ATOM	43691	CG2	ILE	J	75	237.225	173.259	29.747	1.00169.59		JS10
ATOM	43692	CG1	ILE	J	75	236.474	171.519	28.112	1.00169.59		JS10
ATOM	43693	CD1	ILE	J	75	237.475	171.945	27.054	1.00169.59		JS10
ATOM	43694	C	ILE	J	75	234.619	173.181	31.069	1.00198.94		JS10
ATOM	43695	O	ILE	J	75	233.502	173.691	30.998	1.00198.94		JS10
ATOM	43696	N	ASN	J	76	235.508	173.532	31.994	1.00104.15		JS10
ATOM	43697	CA	ASN	J	76	235.190	174.563	32.977	1.00104.15		JS10
ATOM	43698	CB	ASN	J	76	234.939	175.901	32.276	1.00198.90		JS10
ATOM	43699	CG	ASN	J	76	236.097	176.326	31.399	1.00198.90		JS10
ATOM	43700	OD1	ASN	J	76	237.215	176.520	31.876	1.00198.90		JS10
ATOM	43701	ND2	ASN	J	76	235.834	176.473	30.105	1.00198.90		JS10
ATOM	43702	C	ASN	J	76	233.948	174.175	33.794	1.00104.15		JS10
ATOM	43703	O	ASN	J	76	232.852	174.706	33.574	1.00104.15		JS10
ATOM	43704	N	PRO	J	77	234.108	173.225	34.737	1.00171.19		JS10
ATOM	43705	CD	PRO	J	77	235.356	172.485	35.006	1.00137.52		JS10
ATOM	43706	CA	PRO	J	77	233.024	172.747	35.604	1.00171.19		JS10
ATOM	43707	CB	PRO	J	77	233.586	171.448	36.164	1.00137.52		JS10
ATOM	43708	CG	PRO	J	77	235.041	171.773	36.310	1.00137.52		JS10
ATOM	43709	C	PRO	J	77	232.768	173.780	36.692	1.00171.19		JS10
ATOM	43710	O	PRO	J	77	233.690	174.175	37.404	1.00171.19		JS10
ATOM	43711	N	ASN	J	78	231.521	174.212	36.833	1.00137.08		JS10
ATOM	43712	CA	ASN	J	78	231.220	175.229	37.824	1.00137.08		JS10
ATOM	43713	CB	ASN	J	78	231.059	176.577	37.125	1.00198.94		JS10
ATOM	43714	CG	ASN	J	78	232.161	176.842	36.123	1.00198.94		JS10
ATOM	43715	OD1	ASN	J	78	233.332	176.951	36.486	1.00198.94		JS10
ATOM	43716	ND2	ASN	J	78	231.795	176.937	34.850	1.00198.94		JS10
ATOM	43717	C	ASN	J	78	229.987	174.957	38.662	1.00137.08		JS10
ATOM	43718	O	ASN	J	78	228.880	175.288	38.246	1.00137.08		JS10
ATOM	43719	N	ARG	J	79	230.192	174.367	39.840	1.00162.07		JS10



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ATOM	43720	CA	ARG	J	79	229.117	174.063	40.785	1.00162.07	JS10
ATOM	43721	CB	ARG	J	79	229.131	175.092	41.920	1.00178.53	JS10
ATOM	43722	CG	ARG	J	79	230.180	174.826	42.986	1.00178.53	JS10
ATOM	43723	CD	ARG	J	79	229.640	173.866	44.032	1.00178.53	JS10
ATOM	43724	NE	ARG	J	79	230.682	173.353	44.916	1.00178.53	JS10
ATOM	43725	CZ	ARG	J	79	231.609	172.475	44.547	1.00178.53	JS10
ATOM	43726	NH1	ARG	J	79	231.628	172.006	43.306	1.00178.53	JS10
ATOM	43727	NH2	ARG	J	79	232.513	172.060	45.422	1.00178.53	JS10
ATOM	43728	C	ARG	J	79	227.717	173.999	40.174	1.00162.07	JS10
ATOM	43729	O	ARG	J	79	227.131	172.920	40.073	1.00162.07	JS10
ATOM	43730	N	LYS	J	80	227.186	175.159	39.784	1.00198.94	JS10
ATOM	43731	CA	LYS	J	80	225.857	175.259	39.174	1.00198.94	JS10
ATOM	43732	CB	LYS	J	80	225.610	176.688	38.680	1.00156.38	JS10
ATOM	43733	CG	LYS	J	80	224.246	176.897	38.040	1.00156.38	JS10
ATOM	43734	CD	LYS	J	80	223.122	176.579	39.011	1.00156.38	JS10
ATOM	43735	CE	LYS	J	80	223.158	177.501	40.220	1.00156.38	JS10
ATOM	43736	NZ	LYS	J	80	222.053	177.212	41.179	1.00156.38	JS10
ATOM	43737	C	LYS	J	80	225.693	174.279	38.013	1.00198.94	JS10
ATOM	43738	O	LYS	J	80	224.575	173.912	37.641	1.00198.94	JS10
ATOM	43739	N	THR	J	81	226.816	173.873	37.430	1.00186.35	JS10
ATOM	43740	CA	THR	J	81	226.801	172.915	36.335	1.00186.35	JS10
ATOM	43741	CB	THR	J	81	228.222	172.670	35.789	1.00188.45	JS10
ATOM	43742	OG1	THR	J	81	228.901	173.921	35.631	1.00188.45	JS10
ATOM	43743	CG2	THR	J	81	228.159	171.972	34.442	1.00188.45	JS10
ATOM	43744	C	THR	J	81	226.299	171.634	36.979	1.00186.35	JS10
ATOM	43745	O	THR	J	81	225.281	171.065	36.580	1.00186.35	JS10
ATOM	43746	N	ILE	J	82	227.032	171.215	38.007	1.00170.78	JS10
ATOM	43747	CA	ILE	J	82	226.733	170.020	38.782	1.00170.78	JS10
ATOM	43748	CB	ILE	J	82	227.842	169.775	39.834	1.00104.51	JS10
ATOM	43749	CG2	ILE	J	82	227.716	168.369	40.422	1.00104.51	JS10
ATOM	43750	CG1	ILE	J	82	229.216	169.970	39.181	1.00104.51	JS10
ATOM	43751	CD1	ILE	J	82	230.390	169.864	40.138	1.00104.51	JS10
ATOM	43752	C	ILE	J	82	225.398	170.222	39.493	1.00170.78	JS10
ATOM	43753	O	ILE	J	82	224.972	169.389	40.294	1.00170.78	JS10
ATOM	43754	N	GLU	J	83	224.747	171.341	39.194	1.00125.52	JS10
ATOM	43755	CA	GLU	J	83	223.461	171.670	39.795	1.00125.52	JS10
ATOM	43756	CB	GLU	J	83	223.397	173.168	40.112	1.00195.52	JS10
ATOM	43757	CG	GLU	J	83	222.392	173.549	41.188	1.00195.52	JS10
ATOM	43758	CD	GLU	J	83	223.035	173.721	42.553	1.00195.52	JS10
ATOM	43759	OE1	GLU	J	83	223.777	172.812	42.987	1.00195.52	JS10
ATOM	43760	OE2	GLU	J	83	222.796	174.767	43.196	1.00195.52	JS10
ATOM	43761	C	GLU	J	83	222.357	171.308	38.806	1.00125.52	JS10
ATOM	43762	O	GLU	J	83	221.444	170.539	39.128	1.00125.52	JS10
ATOM	43763	N	GLN	J	84	222.453	171.871	37.603	1.00196.83	JS10
ATOM	43764	CA	GLN	J	84	221.480	171.621	36.544	1.00196.83	JS10
ATOM	43765	CB	GLN	J	84	221.781	172.485	35.326	1.00175.45	JS10
ATOM	43766	CG	GLN	J	84	221.808	173.965	35.599	1.00175.45	JS10
ATOM	43767	CD	GLN	J	84	221.932	174.767	34.324	1.00175.45	JS10
ATOM	43768	OE1	GLN	J	84	221.058	174.714	33.458	1.00175.45	JS10
ATOM	43769	NE2	GLN	J	84	223.023	175.513	34.197	1.00175.45	JS10
ATOM	43770	C	GLN	J	84	221.549	170.164	36.131	1.00196.83	JS10
ATOM	43771	O	GLN	J	84	220.553	169.570	35.719	1.00196.83	JS10
ATOM	43772	N	LEU	J	85	222.745	169.599	36.225	1.00143.40	JS10
ATOM	43773	CA	LEU	J	85	222.947	168.206	35.869	1.00143.40	JS10
ATOM	43774	CB	LEU	J	85	224.389	167.986	35.394	1.00144.34	JS10
ATOM	43775	CG	LEU	J	85	225.015	169.050	34.484	1.00144.34	JS10
ATOM	43776	CD1	LEU	J	85	226.317	168.506	33.917	1.00144.34	JS10
ATOM	43777	CD2	LEU	J	85	224.066	169.422	33.355	1.00144.34	JS10
ATOM	43778	C	LEU	J	85	222.664	167.344	37.096	1.00143.40	JS10
ATOM	43779	O	LEU	J	85	221.510	167.178	37.501	1.00143.40	JS10
ATOM	43780	N	MET	J	86	223.736	166.821	37.685	1.00198.94	JS10
ATOM	43781	CA	MET	J	86	223.675	165.968	38.867	1.00198.94	JS10
ATOM	43782	CB	MET	J	86	223.847	166.798	40.138	1.00180.74	JS10
ATOM	43783	CG	MET	J	86	224.046	165.948	41.377	1.00180.74	JS10
ATOM	43784	SD	MET	J	86	225.389	164.754	41.155	1.00180.74	JS10
ATOM	43785	CE	MET	J	86	224.473	163.249	40.746	1.00180.74	JS10
ATOM	43786	C	MET	J	86	222.400	165.148	38.977	1.00198.94	JS10
ATOM	43787	O	MET	J	86	222.388	163.959	38.650	1.00198.94	JS10
ATOM	43788	N	THR	J	87	221.328	165.777	39.444	1.00144.63	JS10
ATOM	43789	CA	THR	J	87	220.067	165.069	39.590	1.00144.63	JS10
ATOM	43790	CB	THR	J	87	219.713	164.878	41.076	1.00198.94	JS10
ATOM	43791	OG1	THR	J	87	220.868	164.403	41.781	1.00151.90	JS10
ATOM	43792	CG2	THR	J	87	218.577	163.863	41.229	1.00151.90	JS10
ATOM	43793	C	THR	J	87	218.920	165.786	38.894	1.00144.63	JS10
ATOM	43794	O	THR	J	87	218.190	166.560	39.514	1.00144.63	JS10
ATOM	43795	N	LEU	J	88	218.770	165.518	37.601	1.00168.38	JS10
ATOM	43796	CA	LEU	J	88	217.708	166.115	36.799	1.00168.38	JS10



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ATOM	43797	CB	LEU	J	88	218.036	167.583	36.479	1.00174.55	JS10
ATOM	43798	CG	LEU	J	88	217.880	168.597	37.624	1.00 98.67	JS10
ATOM	43799	CD1	LEU	J	88	218.203	170.008	37.146	1.00 98.67	JS10
ATOM	43800	CD2	LEU	J	88	216.450	168.533	38.148	1.00 98.67	JS10
ATOM	43801	C	LEU	J	88	217.502	165.324	35.507	1.00168.38	JS10
ATOM	43802	O	LEU	J	88	216.819	165.782	34.589	1.00168.38	JS10
ATOM	43803	N	ASP	J	89	218.091	164.132	35.450	1.00198.94	JS10
ATOM	43804	CA	ASP	J	89	217.975	163.268	34.276	1.00198.94	JS10
ATOM	43805	CB	ASP	J	89	219.050	162.173	34.302	1.00198.94	JS10
ATOM	43806	CG	ASP	J	89	218.879	161.207	35.464	1.00198.94	JS10
ATOM	43807	OD1	ASP	J	89	218.910	161.660	36.630	1.00198.94	JS10
ATOM	43808	OD2	ASP	J	89	218.716	159.994	35.206	1.00198.94	JS10
ATOM	43809	C	ASP	J	89	216.591	162.629	34.219	1.00198.94	JS10
ATOM	43810	O	ASP	J	89	215.751	162.879	35.087	1.00198.94	JS10
ATOM	43811	N	LEU	J	90	216.358	161.799	33.205	1.00190.23	JS10
ATOM	43812	CA	LEU	J	90	215.057	161.158	33.055	1.00190.23	JS10
ATOM	43813	CB	LEU	J	90	214.126	162.074	32.245	1.00198.94	JS10
ATOM	43814	CG	LEU	J	90	213.870	163.496	32.769	1.00162.09	JS10
ATOM	43815	CD1	LEU	J	90	213.049	164.282	31.757	1.00162.09	JS10
ATOM	43816	CD2	LEU	J	90	213.143	163.436	34.105	1.00162.09	JS10
ATOM	43817	C	LEU	J	90	215.048	159.747	32.439	1.00190.23	JS10
ATOM	43818	O	LEU	J	90	214.487	158.823	33.028	1.00190.23	JS10
ATOM	43819	N	PRO	J	91	215.677	159.556	31.260	1.00116.66	JS10
ATOM	43820	CD	PRO	J	91	216.532	160.517	30.538	1.00124.52	JS10
ATOM	43821	CA	PRO	J	91	215.707	158.243	30.596	1.00116.66	JS10
ATOM	43822	CB	PRO	J	91	216.656	158.476	29.411	1.00143.61	JS10
ATOM	43823	CG	PRO	J	91	217.521	159.609	29.858	1.00124.52	JS10
ATOM	43824	C	PRO	J	91	216.067	156.988	31.415	1.00116.66	JS10
ATOM	43825	O	PRO	J	91	216.867	157.039	32.352	1.00116.66	JS10
ATOM	43826	N	THR	J	92	215.457	155.865	31.032	1.00100.58	JS10
ATOM	43827	CA	THR	J	92	215.658	154.564	31.677	1.00100.58	JS10
ATOM	43828	CB	THR	J	92	214.341	153.785	31.774	1.00 84.54	JS10
ATOM	43829	OG1	THR	J	92	213.342	154.608	32.385	1.00 84.54	JS10
ATOM	43830	CG2	THR	J	92	214.537	152.507	32.582	1.00 84.54	JS10
ATOM	43831	C	THR	J	92	216.624	153.665	30.900	1.00100.58	JS10
ATOM	43832	O	THR	J	92	217.507	153.025	31.481	1.00100.58	JS10
ATOM	43833	N	GLY	J	93	216.426	153.608	29.584	1.00140.78	JS10
ATOM	43834	CA	GLY	J	93	217.255	152.783	28.721	1.00140.78	JS10
ATOM	43835	C	GLY	J	93	218.677	153.275	28.545	1.00140.78	JS10
ATOM	43836	O	GLY	J	93	219.478	152.631	27.867	1.00140.78	JS10
ATOM	43837	N	VAL	J	94	218.992	154.421	29.140	1.00115.49	JS10
ATOM	43838	CA	VAL	J	94	220.340	154.964	29.048	1.00115.49	JS10
ATOM	43839	CB	VAL	J	94	220.360	156.516	29.024	1.00 75.01	JS10
ATOM	43840	CG1	VAL	J	94	221.766	157.009	28.699	1.00 75.01	JS10
ATOM	43841	CG2	VAL	J	94	219.374	157.047	27.994	1.00 75.01	JS10
ATOM	43842	C	VAL	J	94	221.122	154.497	30.268	1.00115.49	JS10
ATOM	43843	O	VAL	J	94	220.576	153.857	31.170	1.00115.49	JS10
ATOM	43844	N	GLU	J	95	222.407	154.825	30.280	1.00 95.62	JS10
ATOM	43845	CA	GLU	J	95	223.311	154.461	31.358	1.00 95.62	JS10
ATOM	43846	CB	GLU	J	95	223.547	152.944	31.350	1.00110.09	JS10
ATOM	43847	CG	GLU	J	95	224.492	152.429	32.417	1.00110.09	JS10
ATOM	43848	CD	GLU	J	95	225.926	152.366	31.935	1.00110.09	JS10
ATOM	43849	OE1	GLU	J	95	226.441	153.406	31.484	1.00110.09	JS10
ATOM	43850	OE2	GLU	J	95	226.540	151.276	32.003	1.00110.09	JS10
ATOM	43851	C	GLU	J	95	224.582	155.230	31.037	1.00 95.62	JS10
ATOM	43852	O	GLU	J	95	225.194	155.024	29.987	1.00 95.62	JS10
ATOM	43853	N	ILE	J	96	224.967	156.131	31.935	1.00144.69	JS10
ATOM	43854	CA	ILE	J	96	226.144	156.955	31.707	1.00144.69	JS10
ATOM	43855	CB	ILE	J	96	225.892	158.428	32.051	1.00 90.04	JS10
ATOM	43856	CG2	ILE	J	96	226.790	159.320	31.199	1.00 90.04	JS10
ATOM	43857	CG1	ILE	J	96	224.424	158.766	31.840	1.00 90.04	JS10
ATOM	43858	CD1	ILE	J	96	224.082	160.184	32.219	1.00 90.04	JS10
ATOM	43859	C	ILE	J	96	227.375	156.575	32.488	1.00144.69	JS10
ATOM	43860	O	ILE	J	96	227.329	155.825	33.465	1.00144.69	JS10
ATOM	43861	N	GLU	J	97	228.478	157.144	32.027	1.00 99.29	JS10
ATOM	43862	CA	GLU	J	97	229.782	156.978	32.621	1.00 99.29	JS10
ATOM	43863	CB	GLU	J	97	230.543	155.828	31.963	1.00198.94	JS10
ATOM	43864	CG	GLU	J	97	230.019	154.460	32.360	1.00198.94	JS10
ATOM	43865	CD	GLU	J	97	229.941	154.293	33.868	1.00198.94	JS10
ATOM	43866	OE1	GLU	J	97	230.982	154.478	34.534	1.00198.94	JS10
ATOM	43867	OE2	GLU	J	97	228.845	153.981	34.385	1.00198.94	JS10
ATOM	43868	C	GLU	J	97	230.473	158.298	32.353	1.00 99.29	JS10
ATOM	43869	O	GLU	J	97	230.316	158.885	31.277	1.00 99.29	JS10
ATOM	43870	N	ILE	J	98	231.204	158.784	33.348	1.00183.89	JS10
ATOM	43871	CA	ILE	J	98	231.920	160.042	33.222	1.00183.89	JS10
ATOM	43872	CB	ILE	J	98	231.125	161.224	33.795	1.00 99.86	JS10
ATOM	43873	CG2	ILE	J	98	231.794	162.530	33.414	1.00 99.86	JS10



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ATOM	43874	CG1	ILE	J	98	229.699	161.214	33.271	1.00	99.86	JS10
ATOM	43875	CD1	ILE	J	98	228.811	162.201	33.997	1.00	99.86	JS10
ATOM	43876	C	ILE	J	98	233.198	159.960	34.023	1.00	183.89	JS10
ATOM	43877	O	ILE	J	98	233.318	159.156	34.949	1.00	183.89	JS10
ATOM	43878	N	LYS	J	99	234.146	160.809	33.658	1.00	135.88	JS10
ATOM	43879	CA	LYS	J	99	235.421	160.891	34.338	1.00	135.88	JS10
ATOM	43880	CB	LYS	J	99	236.377	159.799	33.849	1.00	198.94	JS10
ATOM	43881	CG	LYS	J	99	235.988	158.395	34.302	1.00	198.94	JS10
ATOM	43882	CD	LYS	J	99	237.027	157.353	33.908	1.00	198.94	JS10
ATOM	43883	CE	LYS	J	99	236.621	155.965	34.389	1.00	198.94	JS10
ATOM	43884	NZ	LYS	J	99	237.656	154.941	34.080	1.00	198.94	JS10
ATOM	43885	C	LYS	J	99	235.975	162.265	34.027	1.00	135.88	JS10
ATOM	43886	O	LYS	J	99	236.484	162.509	32.935	1.00	135.88	JS10
ATOM	43887	N	ALA	J	100	235.842	163.171	34.988	1.00	169.05	JS10
ATOM	43888	CA	ALA	J	100	236.331	164.528	34.821	1.00	169.05	JS10
ATOM	43889	CB	ALA	J	100	236.041	165.338	36.084	1.00	105.20	JS10
ATOM	43890	C	ALA	J	100	237.834	164.492	34.536	1.00	169.05	JS10
ATOM	43891	O	ALA	J	100	238.434	163.403	34.671	1.00	169.05	JS10
ATOM	43892	OXT	ALA	J	100	238.398	165.548	34.180	1.00	105.20	JS10
TER	43892		ALA	J	100						JS10
ATOM	43893	CB	LYS	K	11	227.447	116.391	-80.994	1.00	161.36	KS11
ATOM	43894	CG	LYS	K	11	228.374	116.435	-79.795	1.00	161.36	KS11
ATOM	43895	CD	LYS	K	11	229.690	115.740	-80.092	1.00	161.36	KS11
ATOM	43896	CE	LYS	K	11	230.612	115.763	-78.883	1.00	161.36	KS11
ATOM	43897	NZ	LYS	K	11	231.895	115.054	-79.150	1.00	161.36	KS11
ATOM	43898	C	LYS	K	11	225.245	116.982	-82.005	1.00	167.31	KS11
ATOM	43899	O	LYS	K	11	225.548	116.262	-82.956	1.00	167.31	KS11
ATOM	43900	N	LYS	K	11	225.380	116.156	-79.661	1.00	167.31	KS11
ATOM	43901	CA	LYS	K	11	226.057	116.959	-80.716	1.00	167.31	KS11
ATOM	43902	N	ARG	K	12	224.208	117.813	-82.018	1.00	85.36	KS11
ATOM	43903	CA	ARG	K	12	223.330	117.974	-83.173	1.00	85.36	KS11
ATOM	43904	CB	ARG	K	12	221.944	117.417	-82.886	1.00	150.03	KS11
ATOM	43905	CG	ARG	K	12	221.901	115.978	-82.481	1.00	150.03	KS11
ATOM	43906	CD	ARG	K	12	220.511	115.664	-81.987	1.00	150.03	KS11
ATOM	43907	NE	ARG	K	12	220.307	114.236	-81.801	1.00	150.03	KS11
ATOM	43908	CZ	ARG	K	12	219.181	113.703	-81.348	1.00	150.03	KS11
ATOM	43909	NH1	ARG	K	12	218.156	114.479	-81.026	1.00	150.03	KS11
ATOM	43910	NH2	ARG	K	12	219.074	112.391	-81.234	1.00	150.03	KS11
ATOM	43911	C	ARG	K	12	223.180	119.462	-83.405	1.00	85.36	KS11
ATOM	43912	O	ARG	K	12	223.110	119.931	-84.541	1.00	85.36	KS11
ATOM	43913	N	GLN	K	13	223.125	120.188	-82.294	1.00	92.20	KS11
ATOM	43914	CA	GLN	K	13	222.957	121.635	-82.282	1.00	92.20	KS11
ATOM	43915	CB	GLN	K	13	223.797	122.300	-83.380	1.00	101.74	KS11
ATOM	43916	CG	GLN	K	13	225.226	121.754	-83.472	1.00	101.74	KS11
ATOM	43917	CD	GLN	K	13	225.974	121.763	-82.143	1.00	101.74	KS11
ATOM	43918	OE1	GLN	K	13	226.406	122.814	-81.665	1.00	101.74	KS11
ATOM	43919	NE2	GLN	K	13	226.128	120.585	-81.541	1.00	101.74	KS11
ATOM	43920	C	GLN	K	13	221.473	121.941	-82.460	1.00	92.20	KS11
ATOM	43921	O	GLN	K	13	220.965	122.064	-83.576	1.00	92.20	KS11
ATOM	43922	N	VAL	K	14	220.787	122.043	-81.326	1.00	90.54	KS11
ATOM	43923	CA	VAL	K	14	219.362	122.319	-81.287	1.00	90.54	KS11
ATOM	43924	CB	VAL	K	14	218.707	121.497	-80.174	1.00	97.98	KS11
ATOM	43925	CG1	VAL	K	14	217.399	122.136	-79.740	1.00	97.98	KS11
ATOM	43926	CG2	VAL	K	14	218.471	120.076	-80.675	1.00	97.98	KS11
ATOM	43927	C	VAL	K	14	219.072	123.797	-81.072	1.00	90.54	KS11
ATOM	43928	O	VAL	K	14	218.106	124.333	-81.617	1.00	90.54	KS11
ATOM	43929	N	ALA	K	15	219.912	124.446	-80.272	1.00	102.40	KS11
ATOM	43930	CA	ALA	K	15	219.763	125.869	-79.989	1.00	102.40	KS11
ATOM	43931	CB	ALA	K	15	219.600	126.647	-81.289	1.00	100.15	KS11
ATOM	43932	C	ALA	K	15	218.581	126.140	-79.077	1.00	102.40	KS11
ATOM	43933	O	ALA	K	15	218.755	126.407	-77.891	1.00	102.40	KS11
ATOM	43934	N	SER	K	16	217.379	126.082	-79.643	1.00	94.08	KS11
ATOM	43935	CA	SER	K	16	216.157	126.320	-78.884	1.00	94.08	KS11
ATOM	43936	CB	SER	K	16	215.251	127.292	-79.646	1.00	113.66	KS11
ATOM	43937	OG	SER	K	16	215.082	126.882	-80.992	1.00	113.66	KS11
ATOM	43938	C	SER	K	16	215.423	125.006	-78.624	1.00	94.08	KS11
ATOM	43939	O	SER	K	16	215.267	124.188	-79.527	1.00	94.08	KS11
ATOM	43940	N	GLY	K	17	214.981	124.808	-77.384	1.00	89.58	KS11
ATOM	43941	CA	GLY	K	17	214.274	123.587	-77.035	1.00	89.58	KS11
ATOM	43942	C	GLY	K	17	213.275	123.733	-75.898	1.00	89.58	KS11
ATOM	43943	O	GLY	K	17	212.807	124.831	-75.598	1.00	89.58	KS11
ATOM	43944	N	ARG	K	18	212.960	122.609	-75.259	1.00	85.04	KS11
ATOM	43945	CA	ARG	K	18	212.005	122.573	-74.157	1.00	85.04	KS11
ATOM	43946	CB	ARG	K	18	210.778	121.762	-74.574	1.00	73.95	KS11
ATOM	43947	CG	ARG	K	18	210.122	122.317	-75.810	1.00	73.95	KS11
ATOM	43948	CD	ARG	K	18	209.490	121.254	-76.679	1.00	73.95	KS11
ATOM	43949	NE	ARG	K	18	208.396	120.541	-76.030	1.00	73.95	KS11



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ATOM	43950	CZ	ARG	K	18	207.473	119.842	-76.689	1.00	73.95	KS11
ATOM	43951	NH1	ARG	K	18	207.500	119.761	-78.016	1.00	73.95	KS11
ATOM	43952	NH2	ARG	K	18	206.520	119.211	-76.020	1.00	73.95	KS11
ATOM	43953	C	ARG	K	18	212.603	121.979	-72.887	1.00	85.04	KS11
ATOM	43954	O	ARG	K	18	213.353	120.999	-72.931	1.00	85.04	KS11
ATOM	43955	N	ALA	K	19	212.267	122.585	-71.754	1.00	76.81	KS11
ATOM	43956	CA	ALA	K	19	212.751	122.112	-70.467	1.00	76.81	KS11
ATOM	43957	CB	ALA	K	19	213.470	123.225	-69.738	1.00	68.29	KS11
ATOM	43958	C	ALA	K	19	211.562	121.630	-69.650	1.00	76.81	KS11
ATOM	43959	O	ALA	K	19	210.645	122.399	-69.356	1.00	76.81	KS11
ATOM	43960	N	TYR	K	20	211.576	120.349	-69.303	1.00	43.10	KS11
ATOM	43961	CA	TYR	K	20	210.508	119.749	-68.522	1.00	43.10	KS11
ATOM	43962	CB	TYR	K	20	210.144	118.374	-69.070	1.00	75.42	KS11
ATOM	43963	CG	TYR	K	20	209.236	118.373	-70.275	1.00	75.42	KS11
ATOM	43964	CD1	TYR	K	20	209.749	118.394	-71.567	1.00	75.42	KS11
ATOM	43965	CE1	TYR	K	20	208.911	118.323	-72.675	1.00	75.42	KS11
ATOM	43966	CD2	TYR	K	20	207.859	118.289	-70.117	1.00	75.42	KS11
ATOM	43967	CE2	TYR	K	20	207.014	118.219	-71.208	1.00	75.42	KS11
ATOM	43968	CZ	TYR	K	20	207.541	118.233	-72.486	1.00	75.42	KS11
ATOM	43969	OH	TYR	K	20	206.682	118.142	-73.560	1.00	75.42	KS11
ATOM	43970	C	TYR	K	20	210.952	119.583	-67.079	1.00	43.10	KS11
ATOM	43971	O	TYR	K	20	211.939	118.899	-66.802	1.00	43.10	KS11
ATOM	43972	N	ILE	K	21	210.229	120.211	-66.159	1.00	60.77	KS11
ATOM	43973	CA	ILE	K	21	210.559	120.097	-64.751	1.00	60.77	KS11
ATOM	43974	CB	ILE	K	21	210.614	121.469	-64.069	1.00	63.66	KS11
ATOM	43975	CG2	ILE	K	21	211.205	121.322	-62.667	1.00	63.66	KS11
ATOM	43976	CG1	ILE	K	21	211.478	122.421	-64.896	1.00	63.66	KS11
ATOM	43977	CD1	ILE	K	21	211.825	123.717	-64.186	1.00	63.66	KS11
ATOM	43978	C	ILE	K	21	209.495	119.248	-64.079	1.00	60.77	KS11
ATOM	43979	O	ILE	K	21	208.331	119.636	-64.015	1.00	60.77	KS11
ATOM	43980	N	HIS	K	22	209.906	118.086	-63.585	1.00	62.48	KS11
ATOM	43981	CA	HIS	K	22	209.007	117.145	-62.924	1.00	62.48	KS11
ATOM	43982	CB	HIS	K	22	209.198	115.757	-63.525	1.00	80.42	KS11
ATOM	43983	CG	HIS	K	22	208.534	114.667	-62.749	1.00	80.42	KS11
ATOM	43984	CD2	HIS	K	22	208.999	113.865	-61.763	1.00	80.42	KS11
ATOM	43985	ND1	HIS	K	22	207.218	114.311	-62.945	1.00	80.42	KS11
ATOM	43986	CE1	HIS	K	22	206.901	113.334	-62.114	1.00	80.42	KS11
ATOM	43987	NE2	HIS	K	22	207.964	113.045	-61.386	1.00	80.42	KS11
ATOM	43988	C	HIS	K	22	209.286	117.080	-61.426	1.00	62.48	KS11
ATOM	43989	O	HIS	K	22	210.146	116.316	-60.975	1.00	62.48	KS11
ATOM	43990	N	ALA	K	23	208.549	117.863	-60.651	1.00	68.28	KS11
ATOM	43991	CA	ALA	K	23	208.754	117.887	-59.213	1.00	68.28	KS11
ATOM	43992	CB	ALA	K	23	208.572	119.299	-58.705	1.00	58.41	KS11
ATOM	43993	C	ALA	K	23	207.856	116.934	-58.426	1.00	68.28	KS11
ATOM	43994	O	ALA	K	23	206.732	116.628	-58.829	1.00	68.28	KS11
ATOM	43995	N	SER	K	24	208.382	116.465	-57.299	1.00	62.46	KS11
ATOM	43996	CA	SER	K	24	207.663	115.572	-56.397	1.00	62.46	KS11
ATOM	43997	CB	SER	K	24	207.795	114.110	-56.835	1.00	74.84	KS11
ATOM	43998	OG	SER	K	24	208.895	113.468	-56.209	1.00	74.84	KS11
ATOM	43999	C	SER	K	24	208.323	115.767	-55.041	1.00	62.46	KS11
ATOM	44000	O	SER	K	24	209.429	116.295	-54.959	1.00	62.46	KS11
ATOM	44001	N	TYR	K	25	207.654	115.352	-53.976	1.00	106.14	KS11
ATOM	44002	CA	TYR	K	25	208.236	115.521	-52.659	1.00	106.14	KS11
ATOM	44003	CB	TYR	K	25	207.153	115.437	-51.581	1.00	112.49	KS11
ATOM	44004	CG	TYR	K	25	206.191	116.603	-51.605	1.00	112.49	KS11
ATOM	44005	CD1	TYR	K	25	205.157	116.664	-52.542	1.00	112.49	KS11
ATOM	44006	CE1	TYR	K	25	204.291	117.762	-52.592	1.00	112.49	KS11
ATOM	44007	CD2	TYR	K	25	206.337	117.670	-50.715	1.00	112.49	KS11
ATOM	44008	CE2	TYR	K	25	205.479	118.773	-50.759	1.00	112.49	KS11
ATOM	44009	CZ	TYR	K	25	204.459	118.812	-51.699	1.00	112.49	KS11
ATOM	44010	OH	TYR	K	25	203.613	119.901	-51.747	1.00	112.49	KS11
ATOM	44011	C	TYR	K	25	209.321	114.492	-52.382	1.00	106.14	KS11
ATOM	44012	O	TYR	K	25	209.795	114.382	-51.248	1.00	106.14	KS11
ATOM	44013	N	ASN	K	26	209.727	113.751	-53.414	1.00	64.22	KS11
ATOM	44014	CA	ASN	K	26	210.754	112.724	-53.244	1.00	64.22	KS11
ATOM	44015	CB	ASN	K	26	210.213	111.363	-53.644	1.00	62.54	KS11
ATOM	44016	CG	ASN	K	26	209.785	110.556	-52.451	1.00	62.54	KS11
ATOM	44017	OD1	ASN	K	26	210.369	110.695	-51.370	1.00	62.54	KS11
ATOM	44018	ND2	ASN	K	26	208.775	109.695	-52.629	1.00	62.54	KS11
ATOM	44019	C	ASN	K	26	212.060	112.947	-53.975	1.00	64.22	KS11
ATOM	44020	O	ASN	K	26	213.045	112.239	-53.716	1.00	64.22	KS11
ATOM	44021	N	ASN	K	27	212.049	113.936	-54.869	1.00	61.92	KS11
ATOM	44022	CA	ASN	K	27	213.185	114.310	-55.713	1.00	61.92	KS11
ATOM	44023	CB	ASN	K	27	213.915	113.036	-56.186	1.00	66.37	KS11
ATOM	44024	CG	ASN	K	27	214.785	113.254	-57.416	1.00	66.37	KS11
ATOM	44025	OD1	ASN	K	27	215.684	114.087	-57.433	1.00	66.37	KS11
ATOM	44026	ND2	ASN	K	27	214.522	112.478	-58.450	1.00	66.37	KS11



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ATOM	44027	C	ASN	K	27	212.612	115.088	-56.906	1.00	61.92	KS11
ATOM	44028	O	ASN	K	27	211.430	114.964	-57.235	1.00	61.92	KS11
ATOM	44029	N	THR	K	28	213.429	115.921	-57.534	1.00	49.84	KS11
ATOM	44030	CA	THR	K	28	212.957	116.658	-58.689	1.00	49.84	KS11
ATOM	44031	CB	THR	K	28	213.284	118.125	-58.594	1.00	69.79	KS11
ATOM	44032	OG1	THR	K	28	212.961	118.592	-57.282	1.00	69.79	KS11
ATOM	44033	CG2	THR	K	28	212.486	118.900	-59.629	1.00	69.79	KS11
ATOM	44034	C	THR	K	28	213.734	116.085	-59.841	1.00	49.84	KS11
ATOM	44035	O	THR	K	28	214.755	115.432	-59.638	1.00	49.84	KS11
ATOM	44036	N	ILE	K	29	213.266	116.316	-61.055	1.00	65.84	KS11
ATOM	44037	CA	ILE	K	29	213.979	115.794	-62.202	1.00	65.84	KS11
ATOM	44038	CB	ILE	K	29	213.634	114.329	-62.422	1.00	55.09	KS11
ATOM	44039	CG2	ILE	K	29	212.152	114.124	-62.295	1.00	55.09	KS11
ATOM	44040	CG1	ILE	K	29	214.134	113.885	-63.779	1.00	55.09	KS11
ATOM	44041	CD1	ILE	K	29	213.803	112.480	-64.035	1.00	55.09	KS11
ATOM	44042	C	ILE	K	29	213.680	116.602	-63.449	1.00	65.84	KS11
ATOM	44043	O	ILE	K	29	212.532	116.721	-63.872	1.00	65.84	KS11
ATOM	44044	N	VAL	K	30	214.738	117.165	-64.021	1.00	48.37	KS11
ATOM	44045	CA	VAL	K	30	214.640	117.993	-65.210	1.00	48.37	KS11
ATOM	44046	CB	VAL	K	30	215.546	119.209	-65.090	1.00	68.47	KS11
ATOM	44047	CG1	VAL	K	30	215.216	120.186	-66.185	1.00	68.47	KS11
ATOM	44048	CG2	VAL	K	30	215.390	119.844	-63.728	1.00	68.47	KS11
ATOM	44049	C	VAL	K	30	215.057	117.221	-66.448	1.00	48.37	KS11
ATOM	44050	O	VAL	K	30	216.043	116.496	-66.446	1.00	48.37	KS11
ATOM	44051	N	THR	K	31	214.303	117.379	-67.514	1.00	45.51	KS11
ATOM	44052	CA	THR	K	31	214.622	116.688	-68.740	1.00	45.51	KS11
ATOM	44053	CB	THR	K	31	213.574	115.597	-69.037	1.00	61.79	KS11
ATOM	44054	OG1	THR	K	31	213.987	114.362	-68.441	1.00	61.79	KS11
ATOM	44055	CG2	THR	K	31	213.400	115.408	-70.533	1.00	61.79	KS11
ATOM	44056	C	THR	K	31	214.596	117.733	-69.828	1.00	45.51	KS11
ATOM	44057	O	THR	K	31	213.544	118.288	-70.113	1.00	45.51	KS11
ATOM	44058	N	ILE	K	32	215.741	118.025	-70.432	1.00	63.11	KS11
ATOM	44059	CA	ILE	K	32	215.774	119.029	-71.490	1.00	63.11	KS11
ATOM	44060	CB	ILE	K	32	217.144	119.716	-71.558	1.00	51.77	KS11
ATOM	44061	CG2	ILE	K	32	217.039	120.980	-72.407	1.00	51.77	KS11
ATOM	44062	CG1	ILE	K	32	217.653	120.030	-70.146	1.00	51.77	KS11
ATOM	44063	CD1	ILE	K	32	217.027	121.240	-69.519	1.00	51.77	KS11
ATOM	44064	C	ILE	K	32	215.501	118.371	-72.841	1.00	63.11	KS11
ATOM	44065	O	ILE	K	32	216.236	117.477	-73.265	1.00	63.11	KS11
ATOM	44066	N	THR	K	33	214.450	118.808	-73.523	1.00	67.48	KS11
ATOM	44067	CA	THR	K	33	214.120	118.227	-74.819	1.00	67.48	KS11
ATOM	44068	CB	THR	K	33	212.674	117.737	-74.861	1.00	85.37	KS11
ATOM	44069	OG1	THR	K	33	212.413	117.160	-76.142	1.00	85.37	KS11
ATOM	44070	CG2	THR	K	33	211.716	118.889	-74.646	1.00	85.37	KS11
ATOM	44071	C	THR	K	33	214.321	119.210	-75.962	1.00	67.48	KS11
ATOM	44072	O	THR	K	33	214.831	120.314	-75.764	1.00	67.48	KS11
ATOM	44073	N	ASP	K	34	213.898	118.807	-77.158	1.00	74.96	KS11
ATOM	44074	CA	ASP	K	34	214.050	119.625	-78.359	1.00	74.96	KS11
ATOM	44075	CB	ASP	K	34	214.815	118.830	-79.406	1.00	79.50	KS11
ATOM	44076	CG	ASP	K	34	213.907	117.963	-80.229	1.00	79.50	KS11
ATOM	44077	OD1	ASP	K	34	213.055	117.256	-79.650	1.00	79.50	KS11
ATOM	44078	OD2	ASP	K	34	214.041	117.994	-81.463	1.00	79.50	KS11
ATOM	44079	C	ASP	K	34	212.709	120.068	-78.955	1.00	74.96	KS11
ATOM	44080	O	ASP	K	34	211.668	119.477	-78.677	1.00	74.96	KS11
ATOM	44081	N	PRO	K	35	212.737	121.099	-79.817	1.00	98.28	KS11
ATOM	44082	CD	PRO	K	35	213.983	121.713	-80.315	1.00	97.14	KS11
ATOM	44083	CA	PRO	K	35	211.591	121.693	-80.502	1.00	98.28	KS11
ATOM	44084	CB	PRO	K	35	212.209	122.210	-81.791	1.00	97.14	KS11
ATOM	44085	CG	PRO	K	35	213.474	122.788	-81.285	1.00	97.14	KS11
ATOM	44086	C	PRO	K	35	210.341	120.858	-80.740	1.00	98.28	KS11
ATOM	44087	O	PRO	K	35	209.262	121.422	-80.907	1.00	98.28	KS11
ATOM	44088	N	ASP	K	36	210.450	119.535	-80.776	1.00	83.54	KS11
ATOM	44089	CA	ASP	K	36	209.239	118.745	-80.974	1.00	83.54	KS11
ATOM	44090	CB	ASP	K	36	209.139	118.221	-82.416	1.00	153.90	KS11
ATOM	44091	CG	ASP	K	36	210.333	117.408	-82.830	1.00	153.90	KS11
ATOM	44092	OD1	ASP	K	36	210.429	117.079	-84.034	1.00	153.90	KS11
ATOM	44093	OD2	ASP	K	36	211.168	117.096	-81.955	1.00	153.90	KS11
ATOM	44094	C	ASP	K	36	209.052	117.624	-79.957	1.00	83.54	KS11
ATOM	44095	O	ASP	K	36	208.229	116.718	-80.147	1.00	83.54	KS11
ATOM	44096	N	GLY	K	37	209.823	117.687	-78.876	1.00	59.83	KS11
ATOM	44097	CA	GLY	K	37	209.649	116.712	-77.822	1.00	59.83	KS11
ATOM	44098	C	GLY	K	37	210.728	115.723	-77.467	1.00	59.83	KS11
ATOM	44099	O	GLY	K	37	210.801	115.320	-76.305	1.00	59.83	KS11
ATOM	44100	N	ASN	K	38	211.563	115.323	-78.422	1.00	85.44	KS11
ATOM	44101	CA	ASN	K	38	212.598	114.336	-78.119	1.00	85.44	KS11
ATOM	44102	CB	ASN	K	38	213.147	113.723	-79.402	1.00	92.58	KS11
ATOM	44103	CG	ASN	K	38	212.071	112.990	-80.185	1.00	92.58	KS11



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ATOM	44104	OD1	ASN	K	38	211.261	113.605	-80.875	1.00	92.58	KS11
ATOM	44105	ND2	ASN	K	38	212.038	111.673	-80.055	1.00	92.58	KS11
ATOM	44106	C	ASN	K	38	213.718	114.857	-77.244	1.00	85.44	KS11
ATOM	44107	O	ASN	K	38	214.402	115.827	-77.564	1.00	85.44	KS11
ATOM	44108	N	PRO	K	39	213.917	114.198	-76.106	1.00	63.16	KS11
ATOM	44109	CD	PRO	K	39	213.288	112.898	-75.819	1.00	53.48	KS11
ATOM	44110	CA	PRO	K	39	214.927	114.518	-75.097	1.00	63.16	KS11
ATOM	44111	CB	PRO	K	39	214.751	113.399	-74.076	1.00	53.48	KS11
ATOM	44112	CG	PRO	K	39	214.305	112.254	-74.916	1.00	53.48	KS11
ATOM	44113	C	PRO	K	39	216.361	114.610	-75.578	1.00	63.16	KS11
ATOM	44114	O	PRO	K	39	216.831	113.769	-76.342	1.00	63.16	KS11
ATOM	44115	N	ILE	K	40	217.054	115.641	-75.115	1.00	67.10	KS11
ATOM	44116	CA	ILE	K	40	218.457	115.825	-75.450	1.00	67.10	KS11
ATOM	44117	CB	ILE	K	40	218.795	117.295	-75.664	1.00	79.09	KS11
ATOM	44118	CG2	ILE	K	40	220.284	117.510	-75.507	1.00	79.09	KS11
ATOM	44119	CG1	ILE	K	40	218.315	117.732	-77.043	1.00	79.09	KS11
ATOM	44120	CD1	ILE	K	40	218.521	119.203	-77.311	1.00	79.09	KS11
ATOM	44121	C	ILE	K	40	219.268	115.301	-74.275	1.00	67.10	KS11
ATOM	44122	O	ILE	K	40	220.102	114.407	-74.434	1.00	67.10	KS11
ATOM	44123	N	THR	K	41	219.015	115.871	-73.096	1.00	61.45	KS11
ATOM	44124	CA	THR	K	41	219.694	115.464	-71.863	1.00	61.45	KS11
ATOM	44125	CB	THR	K	41	220.825	116.435	-71.452	1.00	75.19	KS11
ATOM	44126	OG1	THR	K	41	220.262	117.703	-71.097	1.00	75.19	KS11
ATOM	44127	CG2	THR	K	41	221.812	116.626	-72.586	1.00	75.19	KS11
ATOM	44128	C	THR	K	41	218.685	115.459	-70.734	1.00	61.45	KS11
ATOM	44129	O	THR	K	41	217.619	116.055	-70.846	1.00	61.45	KS11
ATOM	44130	N	TRP	K	42	219.025	114.784	-69.644	1.00	67.01	KS11
ATOM	44131	CA	TRP	K	42	218.141	114.728	-68.491	1.00	67.01	KS11
ATOM	44132	CB	TRP	K	42	217.240	113.499	-68.542	1.00	56.94	KS11
ATOM	44133	CG	TRP	K	42	217.965	112.211	-68.267	1.00	56.94	KS11
ATOM	44134	CD2	TRP	K	42	218.115	111.561	-66.997	1.00	56.94	KS11
ATOM	44135	CE2	TRP	K	42	218.836	110.365	-67.220	1.00	56.94	KS11
ATOM	44136	CE3	TRP	K	42	217.706	111.867	-65.695	1.00	56.94	KS11
ATOM	44137	CD1	TRP	K	42	218.591	111.410	-69.182	1.00	56.94	KS11
ATOM	44138	NE1	TRP	K	42	219.114	110.297	-68.561	1.00	56.94	KS11
ATOM	44139	CZ2	TRP	K	42	219.154	109.474	-66.187	1.00	56.94	KS11
ATOM	44140	CZ3	TRP	K	42	218.018	110.982	-64.674	1.00	56.94	KS11
ATOM	44141	CH2	TRP	K	42	218.736	109.796	-64.925	1.00	56.94	KS11
ATOM	44142	C	TRP	K	42	218.974	114.677	-67.226	1.00	67.01	KS11
ATOM	44143	O	TRP	K	42	220.110	114.207	-67.232	1.00	67.01	KS11
ATOM	44144	N	SER	K	43	218.389	115.142	-66.135	1.00	64.72	KS11
ATOM	44145	CA	SER	K	43	219.082	115.161	-64.866	1.00	64.72	KS11
ATOM	44146	CB	SER	K	43	219.854	116.472	-64.758	1.00	47.15	KS11
ATOM	44147	OG	SER	K	43	220.592	116.524	-63.557	1.00	47.15	KS11
ATOM	44148	C	SER	K	43	218.102	115.019	-63.699	1.00	64.72	KS11
ATOM	44149	O	SER	K	43	216.894	115.208	-63.852	1.00	64.72	KS11
ATOM	44150	N	SER	K	44	218.619	114.673	-62.531	1.00	44.82	KS11
ATOM	44151	CA	SER	K	44	217.775	114.534	-61.352	1.00	44.82	KS11
ATOM	44152	CB	SER	K	44	217.161	113.142	-61.279	1.00	34.57	KS11
ATOM	44153	OG	SER	K	44	218.137	112.218	-60.837	1.00	34.57	KS11
ATOM	44154	C	SER	K	44	218.649	114.743	-60.130	1.00	44.82	KS11
ATOM	44155	O	SER	K	44	219.861	114.883	-60.252	1.00	44.82	KS11
ATOM	44156	N	GLY	K	45	218.035	114.760	-58.952	1.00	64.35	KS11
ATOM	44157	CA	GLY	K	45	218.806	114.948	-57.739	1.00	64.35	KS11
ATOM	44158	C	GLY	K	45	219.704	113.746	-57.625	1.00	64.35	KS11
ATOM	44159	O	GLY	K	45	220.832	113.827	-57.142	1.00	64.35	KS11
ATOM	44160	N	GLY	K	46	219.184	112.618	-58.088	1.00	81.28	KS11
ATOM	44161	CA	GLY	K	46	219.947	111.395	-58.054	1.00	81.28	KS11
ATOM	44162	C	GLY	K	46	221.071	111.507	-59.055	1.00	81.28	KS11
ATOM	44163	O	GLY	K	46	222.178	111.055	-58.788	1.00	81.28	KS11
ATOM	44164	N	VAL	K	47	220.793	112.103	-60.210	1.00	89.70	KS11
ATOM	44165	CA	VAL	K	47	221.820	112.266	-61.232	1.00	89.70	KS11
ATOM	44166	CB	VAL	K	47	221.337	113.157	-62.390	1.00	97.20	KS11
ATOM	44167	CG1	VAL	K	47	222.519	113.673	-63.186	1.00	97.20	KS11
ATOM	44168	CG2	VAL	K	47	220.429	112.365	-63.298	1.00	97.20	KS11
ATOM	44169	C	VAL	K	47	223.045	112.897	-60.594	1.00	89.70	KS11
ATOM	44170	O	VAL	K	47	224.170	112.499	-60.879	1.00	89.70	KS11
ATOM	44171	N	ILE	K	48	222.828	113.886	-59.735	1.00	62.87	KS11
ATOM	44172	CA	ILE	K	48	223.938	114.525	-59.051	1.00	62.87	KS11
ATOM	44173	CB	ILE	K	48	223.579	115.879	-58.504	1.00	51.11	KS11
ATOM	44174	CG2	ILE	K	48	224.863	116.631	-58.196	1.00	51.11	KS11
ATOM	44175	CG1	ILE	K	48	222.735	116.653	-59.518	1.00	51.11	KS11
ATOM	44176	CD1	ILE	K	48	221.913	117.771	-58.883	1.00	51.11	KS11
ATOM	44177	C	ILE	K	48	224.234	113.641	-57.864	1.00	62.87	KS11
ATOM	44178	O	ILE	K	48	223.656	112.567	-57.736	1.00	62.87	KS11
ATOM	44179	N	GLY	K	49	225.105	114.097	-56.975	1.00	61.05	KS11
ATOM	44180	CA	GLY	K	49	225.451	113.293	-55.813	1.00	61.05	KS11



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ATOM	44181	C	GLY	K	49	224.317	112.695	-54.988	1.00	61.05	KS11
ATOM	44182	O	GLY	K	49	224.231	111.479	-54.841	1.00	61.05	KS11
ATOM	44183	N	TYR	K	50	223.449	113.557	-54.466	1.00	85.89	KS11
ATOM	44184	CA	TYR	K	50	222.326	113.174	-53.607	1.00	85.89	KS11
ATOM	44185	CB	TYR	K	50	221.242	114.240	-53.699	1.00	81.04	KS11
ATOM	44186	CG	TYR	K	50	221.729	115.523	-53.076	1.00	81.04	KS11
ATOM	44187	CD1	TYR	K	50	221.156	116.749	-53.394	1.00	81.04	KS11
ATOM	44188	CE1	TYR	K	50	221.666	117.930	-52.863	1.00	81.04	KS11
ATOM	44189	CD2	TYR	K	50	222.819	115.508	-52.200	1.00	81.04	KS11
ATOM	44190	CE2	TYR	K	50	223.332	116.669	-51.668	1.00	81.04	KS11
ATOM	44191	CZ	TYR	K	50	222.759	117.880	-52.002	1.00	81.04	KS11
ATOM	44192	OH	TYR	K	50	223.304	119.034	-51.485	1.00	81.04	KS11
ATOM	44193	C	TYR	K	50	221.733	111.790	-53.740	1.00	85.89	KS11
ATOM	44194	O	TYR	K	50	221.379	111.341	-54.833	1.00	85.89	KS11
ATOM	44195	N	LYS	K	51	221.623	111.129	-52.591	1.00	92.15	KS11
ATOM	44196	CA	LYS	K	51	221.117	109.776	-52.537	1.00	92.15	KS11
ATOM	44197	CB	LYS	K	51	221.979	108.929	-51.598	1.00	175.28	KS11
ATOM	44198	CG	LYS	K	51	223.277	108.432	-52.230	1.00	175.28	KS11
ATOM	44199	CD	LYS	K	51	223.589	106.987	-51.825	1.00	175.28	KS11
ATOM	44200	CE	LYS	K	51	222.548	106.008	-52.383	1.00	175.28	KS11
ATOM	44201	NZ	LYS	K	51	222.758	104.592	-51.944	1.00	175.28	KS11
ATOM	44202	C	LYS	K	51	219.658	109.574	-52.179	1.00	92.15	KS11
ATOM	44203	O	LYS	K	51	218.810	109.469	-53.062	1.00	92.15	KS11
ATOM	44204	N	GLY	K	52	219.352	109.503	-50.891	1.00	65.48	KS11
ATOM	44205	CA	GLY	K	52	217.972	109.249	-50.513	1.00	65.48	KS11
ATOM	44206	C	GLY	K	52	217.074	110.436	-50.262	1.00	65.48	KS11
ATOM	44207	O	GLY	K	52	216.515	111.051	-51.175	1.00	65.48	KS11
ATOM	44208	N	SER	K	53	216.907	110.736	-48.988	1.00	62.60	KS11
ATOM	44209	CA	SER	K	53	216.078	111.844	-48.612	1.00	62.60	KS11
ATOM	44210	CB	SER	K	53	216.148	112.032	-47.102	1.00	80.52	KS11
ATOM	44211	OG	SER	K	53	215.298	113.081	-46.687	1.00	80.52	KS11
ATOM	44212	C	SER	K	53	216.584	113.090	-49.334	1.00	62.60	KS11
ATOM	44213	O	SER	K	53	215.845	113.729	-50.085	1.00	62.60	KS11
ATOM	44214	N	ARG	K	54	217.859	113.401	-49.116	1.00	60.49	KS11
ATOM	44215	CA	ARG	K	54	218.525	114.573	-49.691	1.00	60.49	KS11
ATOM	44216	CB	ARG	K	54	220.044	114.393	-49.608	1.00	123.18	KS11
ATOM	44217	CG	ARG	K	54	220.527	113.609	-48.390	1.00	123.18	KS11
ATOM	44218	CD	ARG	K	54	220.535	114.442	-47.121	1.00	123.18	KS11
ATOM	44219	NE	ARG	K	54	221.869	114.940	-46.786	1.00	123.18	KS11
ATOM	44220	CZ	ARG	K	54	222.571	115.787	-47.533	1.00	123.18	KS11
ATOM	44221	NH1	ARG	K	54	222.075	116.242	-48.676	1.00	123.18	KS11
ATOM	44222	NH2	ARG	K	54	223.771	116.189	-47.132	1.00	123.18	KS11
ATOM	44223	C	ARG	K	54	218.147	114.882	-51.146	1.00	60.49	KS11
ATOM	44224	O	ARG	K	54	218.241	116.029	-51.589	1.00	60.49	KS11
ATOM	44225	N	LYS	K	55	217.729	113.860	-51.887	1.00	52.32	KS11
ATOM	44226	CA	LYS	K	55	217.382	114.020	-53.296	1.00	52.32	KS11
ATOM	44227	CB	LYS	K	55	217.021	112.645	-53.869	1.00	58.54	KS11
ATOM	44228	CG	LYS	K	55	217.225	112.473	-55.382	1.00	58.54	KS11
ATOM	44229	CD	LYS	K	55	216.638	111.135	-55.894	1.00	58.54	KS11
ATOM	44230	CE	LYS	K	55	217.418	109.926	-55.369	1.00	58.54	KS11
ATOM	44231	NZ	LYS	K	55	216.569	108.725	-55.060	1.00	58.54	KS11
ATOM	44232	C	LYS	K	55	216.236	115.026	-53.514	1.00	52.32	KS11
ATOM	44233	O	LYS	K	55	216.265	115.834	-54.451	1.00	52.32	KS11
ATOM	44234	N	GLY	K	56	215.232	114.984	-52.642	1.00	78.85	KS11
ATOM	44235	CA	GLY	K	56	214.106	115.894	-52.769	1.00	78.85	KS11
ATOM	44236	C	GLY	K	56	214.529	117.348	-52.746	1.00	78.85	KS11
ATOM	44237	O	GLY	K	56	214.343	118.069	-53.725	1.00	78.85	KS11
ATOM	44238	N	THR	K	57	215.108	117.758	-51.620	1.00	72.27	KS11
ATOM	44239	CA	THR	K	57	215.600	119.119	-51.384	1.00	72.27	KS11
ATOM	44240	CB	THR	K	57	216.993	119.113	-50.718	1.00	64.19	KS11
ATOM	44241	OG1	THR	K	57	217.308	120.440	-50.291	1.00	64.19	KS11
ATOM	44242	CG2	THR	K	57	218.072	118.677	-51.709	1.00	64.19	KS11
ATOM	44243	C	THR	K	57	215.718	120.057	-52.580	1.00	72.27	KS11
ATOM	44244	O	THR	K	57	216.271	119.704	-53.619	1.00	72.27	KS11
ATOM	44245	N	PRO	K	58	215.221	121.286	-52.430	1.00	86.98	KS11
ATOM	44246	CD	PRO	K	58	214.579	121.837	-51.226	1.00	71.39	KS11
ATOM	44247	CA	PRO	K	58	215.276	122.286	-53.499	1.00	86.98	KS11
ATOM	44248	CB	PRO	K	58	214.598	123.501	-52.867	1.00	71.39	KS11
ATOM	44249	CG	PRO	K	58	214.849	123.305	-51.391	1.00	71.39	KS11
ATOM	44250	C	PRO	K	58	216.705	122.584	-53.968	1.00	86.98	KS11
ATOM	44251	O	PRO	K	58	216.919	123.018	-55.104	1.00	86.98	KS11
ATOM	44252	N	TYR	K	59	217.685	122.360	-53.095	1.00	81.32	KS11
ATOM	44253	CA	TYR	K	59	219.075	122.604	-53.473	1.00	81.32	KS11
ATOM	44254	CB	TYR	K	59	220.028	122.344	-52.304	1.00	85.23	KS11
ATOM	44255	CG	TYR	K	59	221.477	122.530	-52.680	1.00	85.23	KS11
ATOM	44256	CD1	TYR	K	59	221.935	123.745	-53.188	1.00	85.23	KS11
ATOM	44257	CE1	TYR	K	59	223.277	123.922	-53.551	1.00	85.23	KS11



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ATOM	44258	CD2	TYR	K	59	222.392	121.490	-52.539	1.00	85.23	KS11
ATOM	44259	CE2	TYR	K	59	223.740	121.650	-52.897	1.00	85.23	KS11
ATOM	44260	CZ	TYR	K	59	224.177	122.872	-53.402	1.00	85.23	KS11
ATOM	44261	OH	TYR	K	59	225.506	123.043	-53.747	1.00	85.23	KS11
ATOM	44262	C	TYR	K	59	219.408	121.661	-54.610	1.00	81.32	KS11
ATOM	44263	O	TYR	K	59	220.018	122.055	-55.603	1.00	81.32	KS11
ATOM	44264	N	ALA	K	60	218.999	120.409	-54.443	1.00	47.18	KS11
ATOM	44265	CA	ALA	K	60	219.216	119.397	-55.453	1.00	47.18	KS11
ATOM	44266	CB	ALA	K	60	218.581	118.107	-55.040	1.00	25.27	KS11
ATOM	44267	C	ALA	K	60	218.548	119.916	-56.702	1.00	47.18	KS11
ATOM	44268	O	ALA	K	60	219.143	119.922	-57.778	1.00	47.18	KS11
ATOM	44269	N	ALA	K	61	217.305	120.359	-56.556	1.00	52.97	KS11
ATOM	44270	CA	ALA	K	61	216.571	120.902	-57.687	1.00	52.97	KS11
ATOM	44271	CB	ALA	K	61	215.373	121.705	-57.202	1.00	112.11	KS11
ATOM	44272	C	ALA	K	61	217.535	121.799	-58.454	1.00	52.97	KS11
ATOM	44273	O	ALA	K	61	217.823	121.566	-59.624	1.00	52.97	KS11
ATOM	44274	N	GLN	K	62	218.056	122.811	-57.777	1.00	55.00	KS11
ATOM	44275	CA	GLN	K	62	218.991	123.719	-58.409	1.00	55.00	KS11
ATOM	44276	CB	GLN	K	62	219.583	124.645	-57.359	1.00	84.12	KS11
ATOM	44277	CG	GLN	K	62	220.545	125.640	-57.930	1.00	84.12	KS11
ATOM	44278	CD	GLN	K	62	220.938	126.685	-56.920	1.00	84.12	KS11
ATOM	44279	OE1	GLN	K	62	221.481	126.369	-55.859	1.00	84.12	KS11
ATOM	44280	NE2	GLN	K	62	220.665	127.947	-57.240	1.00	84.12	KS11
ATOM	44281	C	GLN	K	62	220.115	122.984	-59.151	1.00	55.00	KS11
ATOM	44282	O	GLN	K	62	220.274	123.132	-60.360	1.00	55.00	KS11
ATOM	44283	N	LEU	K	63	220.886	122.179	-58.432	1.00	66.51	KS11
ATOM	44284	CA	LEU	K	63	221.996	121.457	-59.045	1.00	66.51	KS11
ATOM	44285	CB	LEU	K	63	222.792	120.688	-57.979	1.00	67.88	KS11
ATOM	44286	CG	LEU	K	63	223.404	121.450	-56.788	1.00	67.88	KS11
ATOM	44287	CD1	LEU	K	63	224.472	120.579	-56.135	1.00	67.88	KS11
ATOM	44288	CD2	LEU	K	63	224.021	122.768	-57.236	1.00	67.88	KS11
ATOM	44289	C	LEU	K	63	221.591	120.505	-60.169	1.00	66.51	KS11
ATOM	44290	O	LEU	K	63	222.403	120.179	-61.033	1.00	66.51	KS11
ATOM	44291	N	ALA	K	64	220.350	120.039	-60.158	1.00	65.89	KS11
ATOM	44292	CA	ALA	K	64	219.900	119.137	-61.217	1.00	65.89	KS11
ATOM	44293	CB	ALA	K	64	218.722	118.254	-60.735	1.00	28.05	KS11
ATOM	44294	C	ALA	K	64	219.466	120.001	-62.385	1.00	65.89	KS11
ATOM	44295	O	ALA	K	64	219.661	119.651	-63.544	1.00	65.89	KS11
ATOM	44296	N	ALA	K	65	218.879	121.143	-62.057	1.00	62.51	KS11
ATOM	44297	CA	ALA	K	65	218.404	122.080	-63.062	1.00	62.51	KS11
ATOM	44298	CB	ALA	K	65	217.686	123.272	-62.383	1.00	39.68	KS11
ATOM	44299	C	ALA	K	65	219.587	122.571	-63.878	1.00	62.51	KS11
ATOM	44300	O	ALA	K	65	219.538	122.616	-65.109	1.00	62.51	KS11
ATOM	44301	N	LEU	K	66	220.654	122.934	-63.178	1.00	69.79	KS11
ATOM	44302	CA	LEU	K	66	221.843	123.430	-63.839	1.00	69.79	KS11
ATOM	44303	CB	LEU	K	66	222.890	123.815	-62.806	1.00	48.34	KS11
ATOM	44304	CG	LEU	K	66	222.261	124.849	-61.870	1.00	48.34	KS11
ATOM	44305	CD1	LEU	K	66	223.210	125.203	-60.729	1.00	48.34	KS11
ATOM	44306	CD2	LEU	K	66	221.877	126.079	-62.688	1.00	48.34	KS11
ATOM	44307	C	LEU	K	66	222.363	122.345	-64.742	1.00	69.79	KS11
ATOM	44308	O	LEU	K	66	222.342	122.496	-65.966	1.00	69.79	KS11
ATOM	44309	N	ASP	K	67	222.805	121.244	-64.138	1.00	64.83	KS11
ATOM	44310	CA	ASP	K	67	223.332	120.118	-64.900	1.00	64.83	KS11
ATOM	44311	CB	ASP	K	67	223.338	118.852	-64.047	1.00	75.29	KS11
ATOM	44312	CG	ASP	K	67	223.890	117.652	-64.791	1.00	75.29	KS11
ATOM	44313	OD1	ASP	K	67	223.088	116.770	-65.163	1.00	75.29	KS11
ATOM	44314	OD2	ASP	K	67	225.122	117.592	-65.008	1.00	75.29	KS11
ATOM	44315	C	ASP	K	67	222.473	119.909	-66.132	1.00	64.83	KS11
ATOM	44316	O	ASP	K	67	222.978	119.795	-67.245	1.00	64.83	KS11
ATOM	44317	N	ALA	K	68	221.165	119.885	-65.929	1.00	51.23	KS11
ATOM	44318	CA	ALA	K	68	220.249	119.699	-67.034	1.00	51.23	KS11
ATOM	44319	CB	ALA	K	68	218.821	119.927	-66.568	1.00	141.41	KS11
ATOM	44320	C	ALA	K	68	220.594	120.652	-68.178	1.00	51.23	KS11
ATOM	44321	O	ALA	K	68	220.711	120.227	-69.323	1.00	51.23	KS11
ATOM	44322	N	ALA	K	69	220.772	121.935	-67.879	1.00	84.02	KS11
ATOM	44323	CA	ALA	K	69	221.091	122.899	-68.931	1.00	84.02	KS11
ATOM	44324	CB	ALA	K	69	220.791	124.319	-68.462	1.00	50.09	KS11
ATOM	44325	C	ALA	K	69	222.534	122.803	-69.416	1.00	84.02	KS11
ATOM	44326	O	ALA	K	69	222.778	122.782	-70.621	1.00	84.02	KS11
ATOM	44327	N	LYS	K	70	223.490	122.753	-68.487	1.00	81.81	KS11
ATOM	44328	CA	LYS	K	70	224.903	122.653	-68.859	1.00	81.81	KS11
ATOM	44329	CB	LYS	K	70	225.767	122.326	-67.638	1.00	167.70	KS11
ATOM	44330	CG	LYS	K	70	225.766	123.405	-66.568	1.00	167.70	KS11
ATOM	44331	CD	LYS	K	70	226.540	122.966	-65.330	1.00	167.70	KS11
ATOM	44332	CE	LYS	K	70	226.394	123.974	-64.198	1.00	167.70	KS11
ATOM	44333	NZ	LYS	K	70	227.032	123.496	-62.941	1.00	167.70	KS11
ATOM	44334	C	LYS	K	70	225.060	121.557	-69.906	1.00	81.81	KS11



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ATOM	44335	O	LYS	K	70	225.690	121.763	-70.945	1.00	81.81	KS11
ATOM	44336	N	LYS	K	71	224.471	120.396	-69.629	1.00	71.29	KS11
ATOM	44337	CA	LYS	K	71	224.533	119.271	-70.552	1.00	71.29	KS11
ATOM	44338	CB	LYS	K	71	223.873	118.029	-69.945	1.00	62.48	KS11
ATOM	44339	CG	LYS	K	71	224.629	117.420	-68.766	1.00	62.48	KS11
ATOM	44340	CD	LYS	K	71	224.024	116.086	-68.332	1.00	62.48	KS11
ATOM	44341	CE	LYS	K	71	224.804	115.449	-67.176	1.00	62.48	KS11
ATOM	44342	NZ	LYS	K	71	224.288	114.085	-66.789	1.00	62.48	KS11
ATOM	44343	C	LYS	K	71	223.817	119.649	-71.834	1.00	71.29	KS11
ATOM	44344	O	LYS	K	71	224.186	119.201	-72.913	1.00	71.29	KS11
ATOM	44345	N	ALA	K	72	222.792	120.480	-71.708	1.00	67.68	KS11
ATOM	44346	CA	ALA	K	72	222.024	120.921	-72.862	1.00	67.68	KS11
ATOM	44347	CB	ALA	K	72	220.760	121.634	-72.405	1.00	103.12	KS11
ATOM	44348	C	ALA	K	72	222.863	121.851	-73.721	1.00	67.68	KS11
ATOM	44349	O	ALA	K	72	222.796	121.804	-74.949	1.00	67.68	KS11
ATOM	44350	N	MET	K	73	223.651	122.695	-73.062	1.00	77.55	KS11
ATOM	44351	CA	MET	K	73	224.514	123.652	-73.743	1.00	77.55	KS11
ATOM	44352	CB	MET	K	73	225.425	124.345	-72.727	1.00	126.41	KS11
ATOM	44353	CG	MET	K	73	224.704	124.932	-71.514	1.00	126.41	KS11
ATOM	44354	SD	MET	K	73	223.822	126.476	-71.824	1.00	126.41	KS11
ATOM	44355	CE	MET	K	73	224.987	127.676	-71.168	1.00	126.41	KS11
ATOM	44356	C	MET	K	73	225.371	122.942	-74.790	1.00	77.55	KS11
ATOM	44357	O	MET	K	73	225.667	123.501	-75.847	1.00	77.55	KS11
ATOM	44358	N	ALA	K	74	225.767	121.709	-74.481	1.00	106.18	KS11
ATOM	44359	CA	ALA	K	74	226.591	120.903	-75.377	1.00	106.18	KS11
ATOM	44360	CB	ALA	K	74	226.810	119.526	-74.781	1.00	59.06	KS11
ATOM	44361	C	ALA	K	74	225.941	120.775	-76.746	1.00	106.18	KS11
ATOM	44362	O	ALA	K	74	226.593	120.958	-77.774	1.00	106.18	KS11
ATOM	44363	N	TYR	K	75	224.654	120.447	-76.757	1.00	78.36	KS11
ATOM	44364	CA	TYR	K	75	223.916	120.314	-78.005	1.00	78.36	KS11
ATOM	44365	CB	TYR	K	75	222.591	119.589	-77.763	1.00	102.52	KS11
ATOM	44366	CG	TYR	K	75	222.726	118.096	-77.562	1.00	102.52	KS11
ATOM	44367	CD1	TYR	K	75	223.647	117.571	-76.656	1.00	102.52	KS11
ATOM	44368	CE1	TYR	K	75	223.758	116.197	-76.452	1.00	102.52	KS11
ATOM	44369	CD2	TYR	K	75	221.913	117.206	-78.265	1.00	102.52	KS11
ATOM	44370	CE2	TYR	K	75	222.013	115.831	-78.068	1.00	102.52	KS11
ATOM	44371	CZ	TYR	K	75	222.938	115.333	-77.161	1.00	102.52	KS11
ATOM	44372	OH	TYR	K	75	223.048	113.973	-76.973	1.00	102.52	KS11
ATOM	44373	C	TYR	K	75	223.647	121.705	-78.566	1.00	78.36	KS11
ATOM	44374	O	TYR	K	75	222.749	121.891	-79.389	1.00	78.36	KS11
ATOM	44375	N	GLY	K	76	224.425	122.680	-78.099	1.00	85.72	KS11
ATOM	44376	CA	GLY	K	76	224.277	124.051	-78.553	1.00	85.72	KS11
ATOM	44377	C	GLY	K	76	222.960	124.712	-78.190	1.00	85.72	KS11
ATOM	44378	O	GLY	K	76	222.452	125.530	-78.957	1.00	85.72	KS11
ATOM	44379	N	MET	K	77	222.405	124.368	-77.028	1.00	77.51	KS11
ATOM	44380	CA	MET	K	77	221.139	124.949	-76.583	1.00	77.51	KS11
ATOM	44381	CB	MET	K	77	220.579	124.174	-75.383	1.00	96.72	KS11
ATOM	44382	CG	MET	K	77	219.763	122.925	-75.734	1.00	96.72	KS11
ATOM	44383	SD	MET	K	77	218.053	123.238	-76.280	1.00	96.72	KS11
ATOM	44384	CE	MET	K	77	217.225	123.213	-74.749	1.00	96.72	KS11
ATOM	44385	C	MET	K	77	221.314	126.409	-76.195	1.00	77.51	KS11
ATOM	44386	O	MET	K	77	222.411	126.834	-75.837	1.00	77.51	KS11
ATOM	44387	N	GLN	K	78	220.223	127.166	-76.273	1.00	96.84	KS11
ATOM	44388	CA	GLN	K	78	220.223	128.580	-75.921	1.00	96.84	KS11
ATOM	44389	CB	GLN	K	78	220.579	129.425	-77.135	1.00	142.07	KS11
ATOM	44390	CG	GLN	K	78	222.001	129.211	-77.594	1.00	142.07	KS11
ATOM	44391	CD	GLN	K	78	222.402	130.175	-78.677	1.00	142.07	KS11
ATOM	44392	OE1	GLN	K	78	222.341	131.391	-78.489	1.00	142.07	KS11
ATOM	44393	NE2	GLN	K	78	222.821	129.641	-79.822	1.00	142.07	KS11
ATOM	44394	C	GLN	K	78	218.877	129.019	-75.356	1.00	96.84	KS11
ATOM	44395	O	GLN	K	78	218.802	129.483	-74.218	1.00	96.84	KS11
ATOM	44396	N	SER	K	79	217.820	128.872	-76.151	1.00	97.93	KS11
ATOM	44397	CA	SER	K	79	216.464	129.234	-75.727	1.00	97.93	KS11
ATOM	44398	CB	SER	K	79	215.712	129.928	-76.867	1.00	136.08	KS11
ATOM	44399	OG	SER	K	79	214.323	130.008	-76.588	1.00	136.08	KS11
ATOM	44400	C	SER	K	79	215.695	127.983	-75.319	1.00	97.93	KS11
ATOM	44401	O	SER	K	79	215.804	126.944	-75.971	1.00	97.93	KS11
ATOM	44402	N	VAL	K	80	214.919	128.070	-74.244	1.00	67.63	KS11
ATOM	44403	CA	VAL	K	80	214.147	126.912	-73.804	1.00	67.63	KS11
ATOM	44404	CB	VAL	K	80	214.883	126.100	-72.713	1.00	90.32	KS11
ATOM	44405	CG1	VAL	K	80	214.326	124.685	-72.660	1.00	90.32	KS11
ATOM	44406	CG2	VAL	K	80	216.375	126.086	-72.974	1.00	90.32	KS11
ATOM	44407	C	VAL	K	80	212.804	127.314	-73.223	1.00	67.63	KS11
ATOM	44408	O	VAL	K	80	212.652	128.420	-72.702	1.00	67.63	KS11
ATOM	44409	N	ASP	K	81	211.837	126.399	-73.323	1.00	66.53	KS11
ATOM	44410	CA	ASP	K	81	210.490	126.591	-72.780	1.00	66.53	KS11
ATOM	44411	CB	ASP	K	81	209.408	126.305	-73.825	1.00	91.46	KS11



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ATOM	44412	CG	ASP	K	81	209.453	127.268	-74.986	1.00	91.46	KS11
ATOM	44413	OD1	ASP	K	81	210.213	127.011	-75.946	1.00	91.46	KS11
ATOM	44414	OD2	ASP	K	81	208.736	128.288	-74.930	1.00	91.46	KS11
ATOM	44415	C	ASP	K	81	210.325	125.623	-71.623	1.00	66.53	KS11
ATOM	44416	O	ASP	K	81	210.520	124.413	-71.769	1.00	66.53	KS11
ATOM	44417	N	VAL	K	82	209.966	126.169	-70.472	1.00	76.39	KS11
ATOM	44418	CA	VAL	K	82	209.795	125.360	-69.285	1.00	76.39	KS11
ATOM	44419	CB	VAL	K	82	210.156	126.155	-68.032	1.00	65.08	KS11
ATOM	44420	CG1	VAL	K	82	210.163	125.232	-66.824	1.00	65.08	KS11
ATOM	44421	CG2	VAL	K	82	211.502	126.815	-68.220	1.00	65.08	KS11
ATOM	44422	C	VAL	K	82	208.383	124.832	-69.132	1.00	76.39	KS11
ATOM	44423	O	VAL	K	82	207.406	125.505	-69.448	1.00	76.39	KS11
ATOM	44424	N	ILE	K	83	208.291	123.609	-68.642	1.00	51.22	KS11
ATOM	44425	CA	ILE	K	83	207.013	122.966	-68.420	1.00	51.22	KS11
ATOM	44426	CB	ILE	K	83	206.771	121.893	-69.456	1.00	56.65	KS11
ATOM	44427	CG2	ILE	K	83	205.478	121.161	-69.158	1.00	56.65	KS11
ATOM	44428	CG1	ILE	K	83	206.741	122.536	-70.836	1.00	56.65	KS11
ATOM	44429	CD1	ILE	K	83	206.911	121.538	-71.959	1.00	56.65	KS11
ATOM	44430	C	ILE	K	83	207.085	122.331	-67.048	1.00	51.22	KS11
ATOM	44431	O	ILE	K	83	207.991	121.550	-66.757	1.00	51.22	KS11
ATOM	44432	N	VAL	K	84	206.133	122.665	-66.195	1.00	49.37	KS11
ATOM	44433	CA	VAL	K	84	206.167	122.116	-64.862	1.00	49.37	KS11
ATOM	44434	CB	VAL	K	84	206.218	123.243	-63.830	1.00	64.11	KS11
ATOM	44435	CG1	VAL	K	84	207.645	123.418	-63.326	1.00	64.11	KS11
ATOM	44436	CG2	VAL	K	84	205.738	124.533	-64.468	1.00	64.11	KS11
ATOM	44437	C	VAL	K	84	205.044	121.148	-64.527	1.00	49.37	KS11
ATOM	44438	O	VAL	K	84	203.862	121.490	-64.525	1.00	49.37	KS11
ATOM	44439	N	ARG	K	85	205.447	119.915	-64.261	1.00	70.73	KS11
ATOM	44440	CA	ARG	K	85	204.527	118.862	-63.893	1.00	70.73	KS11
ATOM	44441	CB	ARG	K	85	204.852	117.570	-64.641	1.00	72.62	KS11
ATOM	44442	CG	ARG	K	85	204.912	117.706	-66.140	1.00	72.62	KS11
ATOM	44443	CD	ARG	K	85	203.532	117.696	-66.753	1.00	72.62	KS11
ATOM	44444	NE	ARG	K	85	203.592	117.839	-68.205	1.00	72.62	KS11
ATOM	44445	CZ	ARG	K	85	204.257	117.023	-69.020	1.00	72.62	KS11
ATOM	44446	NH1	ARG	K	85	204.931	115.989	-68.538	1.00	72.62	KS11
ATOM	44447	NH2	ARG	K	85	204.252	117.250	-70.324	1.00	72.62	KS11
ATOM	44448	C	ARG	K	85	204.807	118.647	-62.423	1.00	70.73	KS11
ATOM	44449	O	ARG	K	85	205.964	118.542	-62.022	1.00	70.73	KS11
ATOM	44450	N	GLY	K	86	203.754	118.605	-61.620	1.00	68.52	KS11
ATOM	44451	CA	GLY	K	86	203.939	118.364	-60.205	1.00	68.52	KS11
ATOM	44452	C	GLY	K	86	204.036	119.572	-59.308	1.00	68.52	KS11
ATOM	44453	O	GLY	K	86	203.909	120.720	-59.740	1.00	68.52	KS11
ATOM	44454	N	THR	K	87	204.256	119.279	-58.035	1.00	83.97	KS11
ATOM	44455	CA	THR	K	87	204.375	120.276	-56.990	1.00	83.97	KS11
ATOM	44456	CB	THR	K	87	203.011	120.657	-56.428	1.00	104.93	KS11
ATOM	44457	CG1	THR	K	87	202.233	121.289	-57.451	1.00	104.93	KS11
ATOM	44458	CG2	THR	K	87	203.174	121.590	-55.240	1.00	104.93	KS11
ATOM	44459	C	THR	K	87	205.126	119.562	-55.898	1.00	83.97	KS11
ATOM	44460	O	THR	K	87	204.798	118.413	-55.589	1.00	83.97	KS11
ATOM	44461	N	GLY	K	88	206.125	120.215	-55.311	1.00	54.92	KS11
ATOM	44462	CA	GLY	K	88	206.863	119.541	-54.262	1.00	54.92	KS11
ATOM	44463	C	GLY	K	88	208.200	120.115	-53.866	1.00	54.92	KS11
ATOM	44464	O	GLY	K	88	208.635	121.135	-54.387	1.00	54.92	KS11
ATOM	44465	N	ALA	K	89	208.841	119.432	-52.924	1.00	167.27	KS11
ATOM	44466	CA	ALA	K	89	210.139	119.821	-52.400	1.00	167.27	KS11
ATOM	44467	CB	ALA	K	89	210.843	118.603	-51.805	1.00	90.02	KS11
ATOM	44468	C	ALA	K	89	211.022	120.459	-53.456	1.00	167.27	KS11
ATOM	44469	O	ALA	K	89	211.901	119.805	-54.016	1.00	167.27	KS11
ATOM	44470	N	GLY	K	90	210.781	121.736	-53.734	1.00	66.61	KS11
ATOM	44471	CA	GLY	K	90	211.601	122.429	-54.715	1.00	66.61	KS11
ATOM	44472	C	GLY	K	90	211.286	122.309	-56.205	1.00	66.61	KS11
ATOM	44473	O	GLY	K	90	212.066	121.762	-56.985	1.00	66.61	KS11
ATOM	44474	N	ARG	K	91	210.135	122.831	-56.604	1.00	71.11	KS11
ATOM	44475	CA	ARG	K	91	209.755	122.826	-58.003	1.00	71.11	KS11
ATOM	44476	CB	ARG	K	91	208.230	122.757	-58.142	1.00	87.22	KS11
ATOM	44477	CG	ARG	K	91	207.728	122.809	-59.568	1.00	87.22	KS11
ATOM	44478	CD	ARG	K	91	206.755	123.950	-59.734	1.00	87.22	KS11
ATOM	44479	NE	ARG	K	91	205.503	123.727	-59.012	1.00	87.22	KS11
ATOM	44480	CZ	ARG	K	91	204.769	124.696	-58.465	1.00	87.22	KS11
ATOM	44481	NH1	ARG	K	91	205.167	125.960	-58.548	1.00	87.22	KS11
ATOM	44482	NH2	ARG	K	91	203.624	124.410	-57.854	1.00	87.22	KS11
ATOM	44483	C	ARG	K	91	210.277	124.164	-58.497	1.00	71.11	KS11
ATOM	44484	O	ARG	K	91	211.091	124.234	-59.405	1.00	71.11	KS11
ATOM	44485	N	GLU	K	92	209.828	125.226	-57.851	1.00	62.74	KS11
ATOM	44486	CA	GLU	K	92	210.247	126.560	-58.221	1.00	62.74	KS11
ATOM	44487	CB	GLU	K	92	209.776	127.560	-57.165	1.00	116.89	KS11
ATOM	44488	CG	GLU	K	92	209.315	128.880	-57.751	1.00	116.89	KS11



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ATOM	44489	CD	GLU	K	92	208.244	128.688	-58.815	1.00116.89	KS11
ATOM	44490	OE1	GLU	K	92	207.230	128.018	-58.529	1.00116.89	KS11
ATOM	44491	OE2	GLU	K	92	208.412	129.208	-59.937	1.00116.89	KS11
ATOM	44492	C	GLU	K	92	211.764	126.672	-58.406	1.00 62.74	KS11
ATOM	44493	O	GLU	K	92	212.227	127.076	-59.474	1.00 62.74	KS11
ATOM	44494	N	GLN	K	93	212.531	126.317	-57.374	1.00 65.41	KS11
ATOM	44495	CA	GLN	K	93	213.994	126.394	-57.436	1.00 65.41	KS11
ATOM	44496	CB	GLN	K	93	214.633	125.576	-56.322	1.00113.14	KS11
ATOM	44497	CG	GLN	K	93	215.050	126.426	-55.153	1.00113.14	KS11
ATOM	44498	CD	GLN	K	93	215.796	127.671	-55.594	1.00113.14	KS11
ATOM	44499	OE1	GLN	K	93	216.845	127.590	-56.237	1.00113.14	KS11
ATOM	44500	NE2	GLN	K	93	215.253	128.834	-55.254	1.00113.14	KS11
ATOM	44501	C	GLN	K	93	214.553	125.930	-58.760	1.00 65.41	KS11
ATOM	44502	O	GLN	K	93	215.427	126.574	-59.336	1.00 65.41	KS11
ATOM	44503	N	ALA	K	94	214.054	124.794	-59.228	1.00 80.21	KS11
ATOM	44504	CA	ALA	K	94	214.474	124.247	-60.506	1.00 80.21	KS11
ATOM	44505	CB	ALA	K	94	213.661	123.001	-60.827	1.00 41.22	KS11
ATOM	44506	C	ALA	K	94	214.229	125.329	-61.559	1.00 80.21	KS11
ATOM	44507	O	ALA	K	94	215.144	125.721	-62.283	1.00 80.21	KS11
ATOM	44508	N	ILE	K	95	212.995	125.819	-61.631	1.00 56.84	KS11
ATOM	44509	CA	ILE	K	95	212.656	126.859	-62.590	1.00 56.84	KS11
ATOM	44510	CB	ILE	K	95	211.235	127.395	-62.369	1.00 59.68	KS11
ATOM	44511	CG2	ILE	K	95	210.972	128.565	-63.313	1.00 59.68	KS11
ATOM	44512	CG1	ILE	K	95	210.219	126.270	-62.576	1.00 59.68	KS11
ATOM	44513	CD1	ILE	K	95	208.771	126.702	-62.411	1.00 59.68	KS11
ATOM	44514	C	ILE	K	95	213.615	128.036	-62.481	1.00 56.84	KS11
ATOM	44515	O	ILE	K	95	214.162	128.501	-63.477	1.00 56.84	KS11
ATOM	44516	N	ARG	K	96	213.810	128.522	-61.264	1.00 69.78	KS11
ATOM	44517	CA	ARG	K	96	214.700	129.646	-61.036	1.00 69.78	KS11
ATOM	44518	CB	ARG	K	96	214.635	130.033	-59.563	1.00134.04	KS11
ATOM	44519	CG	ARG	K	96	213.244	130.528	-59.200	1.00134.04	KS11
ATOM	44520	CD	ARG	K	96	212.847	130.236	-57.766	1.00134.04	KS11
ATOM	44521	NE	ARG	K	96	213.605	131.018	-56.797	1.00134.04	KS11
ATOM	44522	CZ	ARG	K	96	213.238	131.184	-55.530	1.00134.04	KS11
ATOM	44523	NH1	ARG	K	96	212.120	130.620	-55.089	1.00134.04	KS11
ATOM	44524	NH2	ARG	K	96	213.986	131.909	-54.706	1.00134.04	KS11
ATOM	44525	C	ARG	K	96	216.113	129.286	-61.475	1.00 69.78	KS11
ATOM	44526	O	ARG	K	96	216.753	130.041	-62.216	1.00 69.78	KS11
ATOM	44527	N	ALA	K	97	216.588	128.121	-61.045	1.00 52.35	KS11
ATOM	44528	CA	ALA	K	97	217.926	127.662	-61.420	1.00 52.35	KS11
ATOM	44529	CB	ALA	K	97	218.146	126.232	-60.943	1.00122.50	KS11
ATOM	44530	C	ALA	K	97	218.089	127.741	-62.936	1.00 52.35	KS11
ATOM	44531	O	ALA	K	97	219.085	128.259	-63.435	1.00 52.35	KS11
ATOM	44532	N	LEU	K	98	217.108	127.217	-63.665	1.00 69.19	KS11
ATOM	44533	CA	LEU	K	98	217.160	127.273	-65.112	1.00 69.19	KS11
ATOM	44534	CB	LEU	K	98	215.922	126.657	-65.755	1.00 59.73	KS11
ATOM	44535	CG	LEU	K	98	215.776	125.144	-65.782	1.00 59.73	KS11
ATOM	44536	CD1	LEU	K	98	214.701	124.795	-66.799	1.00 59.73	KS11
ATOM	44537	CD2	LEU	K	98	217.100	124.488	-66.156	1.00 59.73	KS11
ATOM	44538	C	LEU	K	98	217.212	128.723	-65.512	1.00 69.19	KS11
ATOM	44539	O	LEU	K	98	218.155	129.150	-66.159	1.00 69.19	KS11
ATOM	44540	N	GLN	K	99	216.194	129.479	-65.119	1.00113.47	KS11
ATOM	44541	CA	GLN	K	99	216.117	130.889	-65.469	1.00113.47	KS11
ATOM	44542	CB	GLN	K	99	215.227	131.633	-64.475	1.00 96.76	KS11
ATOM	44543	CG	GLN	K	99	213.764	131.251	-64.627	1.00 96.76	KS11
ATOM	44544	CD	GLN	K	99	212.810	132.275	-64.049	1.00 96.76	KS11
ATOM	44545	OE1	GLN	K	99	212.747	132.474	-62.832	1.00 96.76	KS11
ATOM	44546	NE2	GLN	K	99	212.059	132.935	-64.925	1.00 96.76	KS11
ATOM	44547	C	GLN	K	99	217.478	131.561	-65.592	1.00113.47	KS11
ATOM	44548	O	GLN	K	99	217.692	132.369	-66.502	1.00113.47	KS11
ATOM	44549	N	ALA	K	100	218.399	131.219	-64.693	1.00 96.38	KS11
ATOM	44550	CA	ALA	K	100	219.749	131.779	-64.737	1.00 96.38	KS11
ATOM	44551	CB	ALA	K	100	220.371	131.757	-63.356	1.00 85.55	KS11
ATOM	44552	C	ALA	K	100	220.594	130.948	-65.700	1.00 96.38	KS11
ATOM	44553	O	ALA	K	100	220.996	131.420	-66.764	1.00 96.38	KS11
ATOM	44554	N	SER	K	101	220.842	129.703	-65.304	1.00100.64	KS11
ATOM	44555	CA	SER	K	101	221.618	128.741	-66.080	1.00100.64	KS11
ATOM	44556	CB	SER	K	101	220.692	127.712	-66.740	1.00 88.24	KS11
ATOM	44557	OG	SER	K	101	220.103	128.214	-67.929	1.00 88.24	KS11
ATOM	44558	C	SER	K	101	222.498	129.350	-67.158	1.00100.64	KS11
ATOM	44559	O	SER	K	101	223.710	129.464	-67.007	1.00100.64	KS11
ATOM	44560	N	GLY	K	102	221.873	129.731	-68.257	1.00104.84	KS11
ATOM	44561	CA	GLY	K	102	222.608	130.295	-69.361	1.00104.84	KS11
ATOM	44562	C	GLY	K	102	221.746	129.979	-70.548	1.00104.84	KS11
ATOM	44563	O	GLY	K	102	222.213	129.852	-71.676	1.00104.84	KS11
ATOM	44564	N	LEU	K	103	220.463	129.819	-70.260	1.00 90.34	KS11
ATOM	44565	CA	LEU	K	103	219.474	129.535	-71.279	1.00 90.34	KS11



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ATOM	44566	CB	LEU	K	103	218.906	128.135	-71.103	1.00	76.97	KS11
ATOM	44567	CG	LEU	K	103	219.880	126.996	-71.376	1.00	76.97	KS11
ATOM	44568	CD1	LEU	K	103	219.235	125.661	-71.018	1.00	76.97	KS11
ATOM	44569	CD2	LEU	K	103	220.274	127.030	-72.838	1.00	76.97	KS11
ATOM	44570	C	LEU	K	103	218.374	130.554	-71.111	1.00	90.34	KS11
ATOM	44571	O	LEU	K	103	217.960	130.859	-69.995	1.00	90.34	KS11
ATOM	44572	N	GLN	K	104	217.920	131.101	-72.224	1.00	89.55	KS11
ATOM	44573	CA	GLN	K	104	216.859	132.080	-72.188	1.00	89.55	KS11
ATOM	44574	CB	GLN	K	104	216.803	132.836	-73.507	1.00169.60		KS11
ATOM	44575	CG	GLN	K	104	215.687	133.838	-73.584	1.00169.60		KS11
ATOM	44576	CD	GLN	K	104	215.673	134.554	-74.908	1.00169.60		KS11
ATOM	44577	OE1	GLN	K	104	215.586	133.925	-75.963	1.00169.60		KS11
ATOM	44578	NE2	GLN	K	104	215.762	135.878	-74.866	1.00169.60		KS11
ATOM	44579	C	GLN	K	104	215.567	131.314	-71.967	1.00	89.55	KS11
ATOM	44580	O	GLN	K	104	215.240	130.400	-72.730	1.00	89.55	KS11
ATOM	44581	N	VAL	K	105	214.848	131.673	-70.907	1.00	80.59	KS11
ATOM	44582	CA	VAL	K	105	213.590	131.020	-70.588	1.00	80.59	KS11
ATOM	44583	CB	VAL	K	105	213.277	131.092	-69.081	1.00	64.47	KS11
ATOM	44584	CG1	VAL	K	105	211.890	130.530	-68.816	1.00	64.47	KS11
ATOM	44585	CG2	VAL	K	105	214.316	130.312	-68.290	1.00	64.47	KS11
ATOM	44586	C	VAL	K	105	212.480	131.726	-71.336	1.00	80.59	KS11
ATOM	44587	O	VAL	K	105	211.953	132.727	-70.858	1.00	80.59	KS11
ATOM	44588	N	LYS	K	106	212.134	131.215	-72.514	1.00	82.43	KS11
ATOM	44589	CA	LYS	K	106	211.072	131.815	-73.308	1.00	82.43	KS11
ATOM	44590	CB	LYS	K	106	210.855	131.022	-74.599	1.00180.98		KS11
ATOM	44591	CG	LYS	K	106	211.851	131.387	-75.681	1.00180.98		KS11
ATOM	44592	CD	LYS	K	106	211.849	132.901	-75.885	1.00180.98		KS11
ATOM	44593	CE	LYS	K	106	212.906	133.359	-76.876	1.00180.98		KS11
ATOM	44594	NZ	LYS	K	106	212.938	134.850	-76.989	1.00180.98		KS11
ATOM	44595	C	LYS	K	106	209.779	131.899	-72.510	1.00	82.43	KS11
ATOM	44596	O	LYS	K	106	209.167	132.963	-72.425	1.00	82.43	KS11
ATOM	44597	N	SER	K	107	209.376	130.785	-71.906	1.00	80.66	KS11
ATOM	44598	CA	SER	K	107	208.157	130.761	-71.108	1.00	80.66	KS11
ATOM	44599	CB	SER	K	107	206.941	130.740	-72.014	1.00	65.18	KS11
ATOM	44600	OG	SER	K	107	206.838	129.473	-72.630	1.00	65.18	KS11
ATOM	44601	C	SER	K	107	208.076	129.559	-70.183	1.00	80.66	KS11
ATOM	44602	O	SER	K	107	208.701	128.524	-70.412	1.00	80.66	KS11
ATOM	44603	N	ILE	K	108	207.271	129.705	-69.143	1.00	66.84	KS11
ATOM	44604	CA	ILE	K	108	207.072	128.645	-68.171	1.00	66.84	KS11
ATOM	44605	CB	ILE	K	108	207.423	129.135	-66.758	1.00	56.00	KS11
ATOM	44606	CG2	ILE	K	108	207.355	127.985	-65.760	1.00	56.00	KS11
ATOM	44607	CG1	ILE	K	108	208.818	129.753	-66.769	1.00	56.00	KS11
ATOM	44608	CD1	ILE	K	108	209.105	130.618	-65.562	1.00	56.00	KS11
ATOM	44609	C	ILE	K	108	205.598	128.266	-68.222	1.00	66.84	KS11
ATOM	44610	O	ILE	K	108	204.751	129.095	-68.578	1.00	66.84	KS11
ATOM	44611	N	VAL	K	109	205.292	127.021	-67.865	1.00	49.61	KS11
ATOM	44612	CA	VAL	K	109	203.916	126.556	-67.889	1.00	49.61	KS11
ATOM	44613	CB	VAL	K	109	203.478	126.238	-69.329	1.00	41.51	KS11
ATOM	44614	CG1	VAL	K	109	202.309	125.280	-69.322	1.00	41.51	KS11
ATOM	44615	CG2	VAL	K	109	203.076	127.515	-70.037	1.00	41.51	KS11
ATOM	44616	C	VAL	K	109	203.664	125.333	-67.019	1.00	49.61	KS11
ATOM	44617	O	VAL	K	109	204.416	124.352	-67.064	1.00	49.61	KS11
ATOM	44618	N	ASP	K	110	202.593	125.416	-66.228	1.00	69.03	KS11
ATOM	44619	CA	ASP	K	110	202.174	124.336	-65.344	1.00	69.03	KS11
ATOM	44620	CB	ASP	K	110	201.339	124.883	-64.192	1.00135.77		KS11
ATOM	44621	CG	ASP	K	110	200.927	123.803	-63.213	1.00135.77		KS11
ATOM	44622	OD1	ASP	K	110	200.577	122.691	-63.661	1.00135.77		KS11
ATOM	44623	OD2	ASP	K	110	200.940	124.065	-61.993	1.00135.77		KS11
ATOM	44624	C	ASP	K	110	201.311	123.375	-66.149	1.00	69.03	KS11
ATOM	44625	O	ASP	K	110	200.181	123.698	-66.492	1.00	69.03	KS11
ATOM	44626	N	ASP	K	111	201.834	122.195	-66.448	1.00	66.51	KS11
ATOM	44627	CA	ASP	K	111	201.082	121.211	-67.217	1.00	66.51	KS11
ATOM	44628	CB	ASP	K	111	201.907	120.758	-68.426	1.00	84.80	KS11
ATOM	44629	CG	ASP	K	111	201.142	119.825	-69.349	1.00	84.80	KS11
ATOM	44630	OD1	ASP	K	111	200.214	120.292	-70.044	1.00	84.80	KS11
ATOM	44631	OD2	ASP	K	111	201.468	118.619	-69.379	1.00	84.80	KS11
ATOM	44632	C	ASP	K	111	200.765	120.013	-66.327	1.00	66.51	KS11
ATOM	44633	O	ASP	K	111	200.378	118.951	-66.812	1.00	66.51	KS11
ATOM	44634	N	THR	K	112	200.927	120.191	-65.019	1.00	56.36	KS11
ATOM	44635	CA	THR	K	112	200.671	119.115	-64.066	1.00	56.36	KS11
ATOM	44636	CB	THR	K	112	200.554	119.643	-62.626	1.00	51.17	KS11
ATOM	44637	OG1	THR	K	112	201.611	120.581	-62.353	1.00	51.17	KS11
ATOM	44638	CG2	THR	K	112	200.654	118.483	-61.658	1.00	51.17	KS11
ATOM	44639	C	THR	K	112	199.381	118.384	-64.397	1.00	56.36	KS11
ATOM	44640	O	THR	K	112	198.342	119.000	-64.602	1.00	56.36	KS11
ATOM	44641	N	PRO	K	113	199.435	117.052	-64.461	1.00	60.06	KS11
ATOM	44642	CD	PRO	K	113	200.640	116.215	-64.342	1.00	61.43	KS11



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ATOM	44643	CA	PRO	K	113	198.265	116.227	-64.771	1.00	60.06	KS11
ATOM	44644	CB	PRO	K	113	198.886	114.894	-65.146	1.00	61.43	KS11
ATOM	44645	CG	PRO	K	113	200.050	114.819	-64.206	1.00	61.43	KS11
ATOM	44646	C	PRO	K	113	197.287	116.075	-63.611	1.00	60.06	KS11
ATOM	44647	O	PRO	K	113	197.674	115.979	-62.450	1.00	60.06	KS11
ATOM	44648	N	VAL	K	114	196.009	116.044	-63.935	1.00	52.28	KS11
ATOM	44649	CA	VAL	K	114	195.001	115.875	-62.916	1.00	52.28	KS11
ATOM	44650	CB	VAL	K	114	194.343	117.188	-62.560	1.00	60.32	KS11
ATOM	44651	CG1	VAL	K	114	193.691	117.800	-63.797	1.00	60.32	KS11
ATOM	44652	CG2	VAL	K	114	193.319	116.944	-61.477	1.00	60.32	KS11
ATOM	44653	C	VAL	K	114	193.940	114.942	-63.453	1.00	52.28	KS11
ATOM	44654	O	VAL	K	114	193.575	115.010	-64.617	1.00	52.28	KS11
ATOM	44655	N	PRO	K	115	193.422	114.052	-62.615	1.00	51.89	KS11
ATOM	44656	CD	PRO	K	115	193.886	113.566	-61.310	1.00	41.53	KS11
ATOM	44657	CA	PRO	K	115	192.401	113.165	-63.173	1.00	51.89	KS11
ATOM	44658	CB	PRO	K	115	192.501	111.918	-62.299	1.00	41.53	KS11
ATOM	44659	CG	PRO	K	115	193.830	112.091	-61.526	1.00	41.53	KS11
ATOM	44660	C	PRO	K	115	191.049	113.811	-63.029	1.00	51.89	KS11
ATOM	44661	O	PRO	K	115	190.866	114.680	-62.187	1.00	51.89	KS11
ATOM	44662	N	HIS	K	116	190.102	113.406	-63.856	1.00	60.11	KS11
ATOM	44663	CA	HIS	K	116	188.756	113.940	-63.732	1.00	60.11	KS11
ATOM	44664	CB	HIS	K	116	188.179	114.217	-65.130	1.00	48.57	KS11
ATOM	44665	CG	HIS	K	116	188.901	115.322	-65.857	1.00	48.57	KS11
ATOM	44666	CD2	HIS	K	116	188.612	115.983	-67.006	1.00	48.57	KS11
ATOM	44667	ND1	HIS	K	116	190.067	115.888	-65.378	1.00	48.57	KS11
ATOM	44668	CE1	HIS	K	116	190.459	116.852	-66.193	1.00	48.57	KS11
ATOM	44669	NE2	HIS	K	116	189.593	116.931	-67.188	1.00	48.57	KS11
ATOM	44670	C	HIS	K	116	188.055	112.816	-62.951	1.00	60.11	KS11
ATOM	44671	O	HIS	K	116	186.907	112.428	-63.201	1.00	60.11	KS11
ATOM	44672	N	ASN	K	117	188.830	112.311	-61.987	1.00	69.25	KS11
ATOM	44673	CA	ASN	K	117	188.461	111.237	-61.080	1.00	69.25	KS11
ATOM	44674	CB	ASN	K	117	187.158	111.580	-60.396	1.00	99.19	KS11
ATOM	44675	CG	ASN	K	117	187.290	112.814	-59.558	1.00	99.19	KS11
ATOM	44676	OD1	ASN	K	117	187.965	112.808	-58.526	1.00	99.19	KS11
ATOM	44677	ND2	ASN	K	117	186.681	113.900	-60.010	1.00	99.19	KS11
ATOM	44678	C	ASN	K	117	188.384	109.922	-61.802	1.00	69.25	KS11
ATOM	44679	O	ASN	K	117	187.347	109.551	-62.334	1.00	69.25	KS11
ATOM	44680	N	GLY	K	118	189.509	109.220	-61.812	1.00	63.67	KS11
ATOM	44681	CA	GLY	K	118	189.571	107.952	-62.498	1.00	63.67	KS11
ATOM	44682	C	GLY	K	118	189.921	106.774	-61.617	1.00	63.67	KS11
ATOM	44683	O	GLY	K	118	189.095	105.874	-61.420	1.00	63.67	KS11
ATOM	44684	N	CYS	K	119	191.130	106.761	-61.070	1.00	47.28	KS11
ATOM	44685	CA	CYS	K	119	191.530	105.629	-60.238	1.00	47.28	KS11
ATOM	44686	CB	CYS	K	119	192.874	105.080	-60.725	1.00	75.83	KS11
ATOM	44687	SG	CYS	K	119	192.897	104.644	-62.478	1.00	75.83	KS11
ATOM	44688	C	CYS	K	119	191.620	105.914	-58.749	1.00	47.28	KS11
ATOM	44689	O	CYS	K	119	192.217	106.917	-58.327	1.00	47.28	KS11
ATOM	44690	N	ARG	K	120	191.025	105.030	-57.949	1.00	41.13	KS11
ATOM	44691	CA	ARG	K	120	191.082	105.193	-56.502	1.00	41.13	KS11
ATOM	44692	CB	ARG	K	120	190.426	104.009	-55.782	1.00	54.86	KS11
ATOM	44693	CG	ARG	K	120	190.992	103.797	-54.378	1.00	54.86	KS11
ATOM	44694	CD	ARG	K	120	190.287	102.720	-53.589	1.00	54.86	KS11
ATOM	44695	NE	ARG	K	120	189.006	103.189	-53.079	1.00	54.86	KS11
ATOM	44696	CZ	ARG	K	120	188.497	102.841	-51.895	1.00	54.86	KS11
ATOM	44697	NH1	ARG	K	120	189.167	102.017	-51.096	1.00	54.86	KS11
ATOM	44698	NH2	ARG	K	120	187.318	103.315	-51.502	1.00	54.86	KS11
ATOM	44699	C	ARG	K	120	192.553	105.233	-56.135	1.00	41.13	KS11
ATOM	44700	O	ARG	K	120	193.288	104.297	-56.435	1.00	41.13	KS11
ATOM	44701	N	PRO	K	121	193.017	106.324	-55.512	1.00	37.17	KS11
ATOM	44702	CD	PRO	K	121	192.373	107.623	-55.288	1.00	49.58	KS11
ATOM	44703	CA	PRO	K	121	194.435	106.385	-55.140	1.00	37.17	KS11
ATOM	44704	CB	PRO	K	121	194.641	107.850	-54.791	1.00	49.58	KS11
ATOM	44705	CG	PRO	K	121	193.312	108.246	-54.270	1.00	49.58	KS11
ATOM	44706	C	PRO	K	121	194.740	105.472	-53.976	1.00	37.17	KS11
ATOM	44707	O	PRO	K	121	193.829	105.026	-53.272	1.00	37.17	KS11
ATOM	44708	N	LYS	K	122	196.016	105.172	-53.785	1.00	65.89	KS11
ATOM	44709	CA	LYS	K	122	196.404	104.302	-52.692	1.00	65.89	KS11
ATOM	44710	CB	LYS	K	122	197.918	104.129	-52.681	1.00	75.71	KS11
ATOM	44711	CG	LYS	K	122	198.514	104.033	-54.078	1.00	75.71	KS11
ATOM	44712	CD	LYS	K	122	200.030	104.153	-54.076	1.00	75.71	KS11
ATOM	44713	CE	LYS	K	122	200.685	102.962	-53.397	1.00	75.71	KS11
ATOM	44714	NZ	LYS	K	122	202.141	103.213	-53.137	1.00	75.71	KS11
ATOM	44715	C	LYS	K	122	195.948	105.006	-51.419	1.00	65.89	KS11
ATOM	44716	O	LYS	K	122	195.834	106.239	-51.399	1.00	65.89	KS11
ATOM	44717	N	LYS	K	123	195.651	104.220	-50.385	1.00	41.55	KS11
ATOM	44718	CA	LYS	K	123	195.226	104.741	-49.089	1.00	41.55	KS11
ATOM	44719	CB	LYS	K	123	195.637	103.739	-48.020	1.00	47.21	KS11



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ATOM	44720	CG	LYS	K	123	195.284	104.068	-46.593	1.00	47.21	KS11
ATOM	44721	CD	LYS	K	123	195.155	102.734	-45.860	1.00	47.21	KS11
ATOM	44722	CE	LYS	K	123	195.255	102.845	-44.356	1.00	47.21	KS11
ATOM	44723	NZ	LYS	K	123	195.501	101.501	-43.752	1.00	47.21	KS11
ATOM	44724	C	LYS	K	123	195.985	106.036	-48.910	1.00	41.55	KS11
ATOM	44725	O	LYS	K	123	195.412	107.104	-48.754	1.00	41.55	KS11
ATOM	44726	N	LYS	K	124	197.299	105.907	-48.967	1.00	51.77	KS11
ATOM	44727	CA	LYS	K	124	198.232	107.016	-48.856	1.00	51.77	KS11
ATOM	44728	CB	LYS	K	124	199.455	106.687	-49.723	1.00154.62		KS11
ATOM	44729	CG	LYS	K	124	200.781	106.601	-49.006	1.00154.62		KS11
ATOM	44730	CD	LYS	K	124	201.344	107.978	-48.784	1.00154.62		KS11
ATOM	44731	CE	LYS	K	124	202.675	107.916	-48.078	1.00154.62		KS11
ATOM	44732	NZ	LYS	K	124	203.228	109.274	-47.835	1.00154.62		KS11
ATOM	44733	C	LYS	K	124	197.642	108.367	-49.286	1.00	51.77	KS11
ATOM	44734	O	LYS	K	124	197.828	109.371	-48.613	1.00	51.77	KS11
ATOM	44735	N	PHE	K	125	196.917	108.391	-50.399	1.00	66.98	KS11
ATOM	44736	CA	PHE	K	125	196.374	109.644	-50.908	1.00	66.98	KS11
ATOM	44737	CB	PHE	K	125	196.874	109.873	-52.342	1.00	78.66	KS11
ATOM	44738	CG	PHE	K	125	198.371	109.846	-52.481	1.00	78.66	KS11
ATOM	44739	CD1	PHE	K	125	199.086	108.684	-52.232	1.00	78.66	KS11
ATOM	44740	CD2	PHE	K	125	199.071	110.996	-52.828	1.00	78.66	KS11
ATOM	44741	CE1	PHE	K	125	200.474	108.664	-52.319	1.00	78.66	KS11
ATOM	44742	CE2	PHE	K	125	200.460	110.991	-52.920	1.00	78.66	KS11
ATOM	44743	CZ	PHE	K	125	201.162	109.819	-52.662	1.00	78.66	KS11
ATOM	44744	C	PHE	K	125	194.852	109.795	-50.888	1.00	66.98	KS11
ATOM	44745	O	PHE	K	125	194.327	110.796	-51.381	1.00	66.98	KS11
ATOM	44746	N	ARG	K	126	194.135	108.823	-50.336	1.00	68.23	KS11
ATOM	44747	CA	ARG	K	126	192.681	108.924	-50.293	1.00	68.23	KS11
ATOM	44748	CB	ARG	K	126	192.049	107.570	-50.014	1.00	75.31	KS11
ATOM	44749	CG	ARG	K	126	192.194	106.559	-51.112	1.00	75.31	KS11
ATOM	44750	CD	ARG	K	126	191.152	105.500	-50.893	1.00	75.31	KS11
ATOM	44751	NE	ARG	K	126	189.828	106.107	-50.913	1.00	75.31	KS11
ATOM	44752	CZ	ARG	K	126	188.822	105.727	-50.136	1.00	75.31	KS11
ATOM	44753	NH1	ARG	K	126	188.990	104.739	-49.267	1.00	75.31	KS11
ATOM	44754	NH2	ARG	K	126	187.644	106.330	-50.235	1.00	75.31	KS11
ATOM	44755	C	ARG	K	126	192.176	109.906	-49.243	1.00	68.23	KS11
ATOM	44756	O	ARG	K	126	192.314	111.118	-49.397	1.00	68.23	KS11
ATOM	44757	N	LYS	K	127	191.585	109.363	-48.181	1.00184.96		KS11
ATOM	44758	CA	LYS	K	127	191.023	110.152	-47.090	1.00184.96		KS11
ATOM	44759	CB	LYS	K	127	191.887	110.029	-45.835	1.00148.74		KS11
ATOM	44760	CG	LYS	K	127	191.345	108.989	-44.882	1.00148.74		KS11
ATOM	44761	CD	LYS	K	127	189.881	109.289	-44.576	1.00148.74		KS11
ATOM	44762	CE	LYS	K	127	189.136	108.055	-44.103	1.00148.74		KS11
ATOM	44763	NZ	LYS	K	127	189.712	107.504	-42.851	1.00148.74		KS11
ATOM	44764	C	LYS	K	127	190.798	111.613	-47.424	1.00184.96		KS11
ATOM	44765	O	LYS	K	127	191.663	112.461	-47.198	1.00184.96		KS11
ATOM	44766	N	ALA	K	128	189.616	111.898	-47.960	1.00193.70		KS11
ATOM	44767	CA	ALA	K	128	189.261	113.252	-48.348	1.00193.70		KS11
ATOM	44768	CB	ALA	K	128	190.107	113.667	-49.550	1.00	64.36	KS11
ATOM	44769	C	ALA	K	128	187.767	113.379	-48.674	1.00193.70		KS11
ATOM	44770	O	ALA	K	128	186.932	113.462	-47.769	1.00193.70		KS11
ATOM	44771	N	SER	K	129	187.449	113.392	-49.970	1.00198.94		KS11
ATOM	44772	CA	SER	K	129	186.080	113.515	-50.493	1.00198.94		KS11
ATOM	44773	CB	SER	K	129	185.335	112.169	-50.399	1.00139.54		KS11
ATOM	44774	OG	SER	K	129	185.098	111.771	-49.059	1.00139.54		KS11
ATOM	44775	C	SER	K	129	185.232	114.618	-49.856	1.00198.94		KS11
ATOM	44776	O	SER	K	129	185.740	115.333	-48.963	1.00198.94		KS11
ATOM	44777	OXT	SER	K	129	184.060	114.761	-50.273	1.00168.51		KS11
TER	44777	SER	K	129							KS11
ATOM	44778	CB	PRO	L	5	150.136	101.785	-24.505	1.00	24.30	LS12
ATOM	44779	CG	PRO	L	5	151.142	101.947	-23.397	1.00	24.30	LS12
ATOM	44780	C	PRO	L	5	149.076	103.708	-25.607	1.00	47.40	LS12
ATOM	44781	O	PRO	L	5	148.648	104.466	-24.743	1.00	47.40	LS12
ATOM	44782	N	PRO	L	5	151.261	103.906	-24.659	1.00	47.40	LS12
ATOM	44783	CD	PRO	L	5	151.357	103.451	-23.262	1.00	24.30	LS12
ATOM	44784	CA	PRO	L	5	150.386	102.992	-25.395	1.00	47.40	LS12
ATOM	44785	N	THR	L	6	148.438	103.467	-26.746	1.00	34.83	LS12
ATOM	44786	CA	THR	L	6	147.141	104.064	-27.018	1.00	34.83	LS12
ATOM	44787	CB	THR	L	6	146.781	103.949	-28.477	1.00	31.60	LS12
ATOM	44788	OG1	THR	L	6	146.387	102.606	-28.762	1.00	31.60	LS12
ATOM	44789	CG2	THR	L	6	147.964	104.260	-29.314	1.00	31.60	LS12
ATOM	44790	C	THR	L	6	146.143	103.225	-26.224	1.00	34.83	LS12
ATOM	44791	O	THR	L	6	146.493	102.173	-25.677	1.00	34.83	LS12
ATOM	44792	N	ILE	L	7	144.900	103.677	-26.141	1.00	35.32	LS12
ATOM	44793	CA	ILE	L	7	143.940	102.881	-25.410	1.00	35.32	LS12
ATOM	44794	CB	ILE	L	7	142.614	103.636	-25.178	1.00	23.91	LS12
ATOM	44795	CG2	ILE	L	7	141.478	102.652	-24.971	1.00	23.91	LS12



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ATOM	44796	CG1	ILE	L	7	142.737	104.514	-23.938	1.00	23.91	LS12
ATOM	44797	CD1	ILE	L	7	143.110	103.747	-22.702	1.00	23.91	LS12
ATOM	44798	C	ILE	L	7	143.716	101.630	-26.230	1.00	35.32	LS12
ATOM	44799	O	ILE	L	7	143.953	100.533	-25.752	1.00	35.32	LS12
ATOM	44800	N	ASN	L	8	143.298	101.797	-27.476	1.00	32.04	LS12
ATOM	44801	CA	ASN	L	8	143.067	100.651	-28.331	1.00	32.04	LS12
ATOM	44802	CB	ASN	L	8	142.993	101.062	-29.792	1.00	53.36	LS12
ATOM	44803	CG	ASN	L	8	142.432	99.966	-30.663	1.00	53.36	LS12
ATOM	44804	OD1	ASN	L	8	141.290	99.562	-30.493	1.00	53.36	LS12
ATOM	44805	ND2	ASN	L	8	143.232	99.473	-31.595	1.00	53.36	LS12
ATOM	44806	C	ASN	L	8	144.200	99.660	-28.153	1.00	32.04	LS12
ATOM	44807	O	ASN	L	8	143.968	98.453	-28.093	1.00	32.04	LS12
ATOM	44808	N	GLN	L	9	145.430	100.156	-28.073	1.00	31.46	LS12
ATOM	44809	CA	GLN	L	9	146.567	99.260	-27.868	1.00	31.46	LS12
ATOM	44810	CB	GLN	L	9	147.879	100.028	-27.826	1.00	45.75	LS12
ATOM	44811	CG	GLN	L	9	148.262	100.656	-29.120	1.00	45.75	LS12
ATOM	44812	CD	GLN	L	9	149.639	101.240	-29.048	1.00	45.75	LS12
ATOM	44813	OE1	GLN	L	9	149.950	102.046	-28.165	1.00	45.75	LS12
ATOM	44814	NE2	GLN	L	9	150.488	100.833	-29.981	1.00	45.75	LS12
ATOM	44815	C	GLN	L	9	146.396	98.552	-26.536	1.00	31.46	LS12
ATOM	44816	O	GLN	L	9	146.452	97.327	-26.459	1.00	31.46	LS12
ATOM	44817	N	LEU	L	10	146.209	99.343	-25.484	1.00	29.81	LS12
ATOM	44818	CA	LEU	L	10	146.006	98.795	-24.155	1.00	29.81	LS12
ATOM	44819	CB	LEU	L	10	145.620	99.894	-23.177	1.00	45.60	LS12
ATOM	44820	CG	LEU	L	10	146.842	100.411	-22.442	1.00	45.60	LS12
ATOM	44821	CD1	LEU	L	10	146.430	101.480	-21.475	1.00	45.60	LS12
ATOM	44822	CD2	LEU	L	10	147.504	99.244	-21.708	1.00	45.60	LS12
ATOM	44823	C	LEU	L	10	144.920	97.744	-24.166	1.00	29.81	LS12
ATOM	44824	O	LEU	L	10	145.056	96.706	-23.533	1.00	29.81	LS12
ATOM	44825	N	VAL	L	11	143.840	98.013	-24.889	1.00	36.79	LS12
ATOM	44826	CA	VAL	L	11	142.741	97.068	-24.964	1.00	36.79	LS12
ATOM	44827	CB	VAL	L	11	141.601	97.570	-25.838	1.00	32.00	LS12
ATOM	44828	CG1	VAL	L	11	140.368	96.779	-25.529	1.00	32.00	LS12
ATOM	44829	CG2	VAL	L	11	141.360	99.043	-25.611	1.00	32.00	LS12
ATOM	44830	C	VAL	L	11	143.261	95.809	-25.607	1.00	36.79	LS12
ATOM	44831	O	VAL	L	11	142.919	94.702	-25.196	1.00	36.79	LS12
ATOM	44832	N	ARG	L	12	144.097	95.994	-26.621	1.00	36.29	LS12
ATOM	44833	CA	ARG	L	12	144.671	94.882	-27.358	1.00	36.29	LS12
ATOM	44834	CB	ARG	L	12	145.357	95.384	-28.633	1.00	78.06	LS12
ATOM	44835	CG	ARG	L	12	144.414	95.825	-29.743	1.00	78.06	LS12
ATOM	44836	CD	ARG	L	12	145.091	95.700	-31.103	1.00	78.06	LS12
ATOM	44837	NE	ARG	L	12	146.305	96.508	-31.174	1.00	78.06	LS12
ATOM	44838	CZ	ARG	L	12	147.411	96.143	-31.817	1.00	78.06	LS12
ATOM	44839	NH1	ARG	L	12	147.467	94.977	-32.451	1.00	78.06	LS12
ATOM	44840	NH2	ARG	L	12	148.468	96.942	-31.821	1.00	78.06	LS12
ATOM	44841	C	ARG	L	12	145.664	94.041	-26.568	1.00	36.29	LS12
ATOM	44842	O	ARG	L	12	145.445	92.847	-26.363	1.00	36.29	LS12
ATOM	44843	N	LYS	L	13	146.750	94.666	-26.128	1.00	44.51	LS12
ATOM	44844	CA	LYS	L	13	147.800	93.967	-25.396	1.00	44.51	LS12
ATOM	44845	CB	LYS	L	13	149.146	94.435	-25.929	1.00	90.92	LS12
ATOM	44846	CG	LYS	L	13	149.228	94.239	-27.429	1.00	90.92	LS12
ATOM	44847	CD	LYS	L	13	150.474	94.837	-28.031	1.00	90.92	LS12
ATOM	44848	CE	LYS	L	13	150.520	94.578	-29.528	1.00	90.92	LS12
ATOM	44849	NZ	LYS	L	13	151.751	95.138	-30.161	1.00	90.92	LS12
ATOM	44850	C	LYS	L	13	147.737	94.097	-23.874	1.00	44.51	LS12
ATOM	44851	O	LYS	L	13	148.207	93.226	-23.146	1.00	44.51	LS12
ATOM	44852	N	GLY	L	14	147.153	95.177	-23.383	1.00	53.11	LS12
ATOM	44853	CA	GLY	L	14	147.035	95.331	-21.944	1.00	53.11	LS12
ATOM	44854	C	GLY	L	14	148.346	95.365	-21.193	1.00	53.11	LS12
ATOM	44855	O	GLY	L	14	149.410	95.184	-21.780	1.00	53.11	LS12
ATOM	44856	N	ARG	L	15	148.269	95.605	-19.889	1.00	57.84	LS12
ATOM	44857	CA	ARG	L	15	149.471	95.673	-19.077	1.00	57.84	LS12
ATOM	44858	CB	ARG	L	15	149.234	96.559	-17.853	1.00	61.06	LS12
ATOM	44859	CG	ARG	L	15	148.902	98.012	-18.183	1.00	61.06	LS12
ATOM	44860	CD	ARG	L	15	150.081	98.728	-18.833	1.00	61.06	LS12
ATOM	44861	NE	ARG	L	15	149.746	100.097	-19.229	1.00	61.06	LS12
ATOM	44862	CZ	ARG	L	15	150.590	100.933	-19.828	1.00	61.06	LS12
ATOM	44863	NH1	ARG	L	15	151.830	100.557	-20.105	1.00	61.06	LS12
ATOM	44864	NH2	ARG	L	15	150.187	102.146	-20.159	1.00	61.06	LS12
ATOM	44865	C	ARG	L	15	149.881	94.274	-18.644	1.00	57.84	LS12
ATOM	44866	O	ARG	L	15	149.057	93.361	-18.652	1.00	57.84	LS12
ATOM	44867	N	GLU	L	16	151.156	94.109	-18.288	1.00	52.61	LS12
ATOM	44868	CA	GLU	L	16	151.682	92.821	-17.847	1.00	52.61	LS12
ATOM	44869	CB	GLU	L	16	152.928	92.439	-18.649	1.00	98.27	LS12
ATOM	44870	CG	GLU	L	16	153.884	91.519	-17.895	1.00	98.27	LS12
ATOM	44871	CD	GLU	L	16	154.935	90.890	-18.787	1.00	98.27	LS12
ATOM	44872	OE1	GLU	L	16	155.525	91.599	-19.630	1.00	98.27	LS12



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ATOM	44873	OE2	GLU	L	16	155.182	89.677	-18.636	1.00	98.27	LS12
ATOM	44874	C	GLU	L	16	152.027	92.869	-16.372	1.00	52.61	LS12
ATOM	44875	O	GLU	L	16	152.883	93.659	-15.959	1.00	52.61	LS12
ATOM	44876	N	LYS	L	17	151.366	92.007	-15.595	1.00	47.76	LS12
ATOM	44877	CA	LYS	L	17	151.557	91.927	-14.146	1.00	47.76	LS12
ATOM	44878	CB	LYS	L	17	150.481	91.030	-13.527	1.00	114.94	LS12
ATOM	44879	CG	LYS	L	17	149.036	91.549	-13.640	1.00	114.94	LS12
ATOM	44880	CD	LYS	L	17	148.735	92.695	-12.663	1.00	114.94	LS12
ATOM	44881	CE	LYS	L	17	149.100	94.080	-13.210	1.00	114.94	LS12
ATOM	44882	NZ	LYS	L	17	148.118	94.596	-14.214	1.00	114.94	LS12
ATOM	44883	C	LYS	L	17	152.936	91.399	-13.783	1.00	47.76	LS12
ATOM	44884	O	LYS	L	17	153.390	90.388	-14.315	1.00	47.76	LS12
ATOM	44885	N	VAL	L	18	153.604	92.096	-12.875	1.00	81.31	LS12
ATOM	44886	CA	VAL	L	18	154.933	91.699	-12.438	1.00	81.31	LS12
ATOM	44887	CB	VAL	L	18	155.588	92.815	-11.589	1.00	131.46	LS12
ATOM	44888	CG1	VAL	L	18	156.840	92.293	-10.901	1.00	131.46	LS12
ATOM	44889	CG2	VAL	L	18	155.937	94.001	-12.476	1.00	131.46	LS12
ATOM	44890	C	VAL	L	18	154.877	90.420	-11.609	1.00	81.31	LS12
ATOM	44891	O	VAL	L	18	153.903	90.178	-10.904	1.00	81.31	LS12
ATOM	44892	N	ARG	L	19	155.923	89.603	-11.708	1.00	76.70	LS12
ATOM	44893	CA	ARG	L	19	156.021	88.353	-10.956	1.00	76.70	LS12
ATOM	44894	CB	ARG	L	19	156.199	87.171	-11.903	1.00	198.87	LS12
ATOM	44895	CG	ARG	L	19	155.158	87.073	-12.984	1.00	198.87	LS12
ATOM	44896	CD	ARG	L	19	155.543	86.000	-13.976	1.00	198.87	LS12
ATOM	44897	NE	ARG	L	19	154.495	85.778	-14.964	1.00	198.87	LS12
ATOM	44898	CZ	ARG	L	19	154.594	84.925	-15.978	1.00	198.87	LS12
ATOM	44899	NH1	ARG	L	19	155.702	84.213	-16.139	1.00	198.87	LS12
ATOM	44900	NH2	ARG	L	19	153.584	84.780	-16.827	1.00	198.87	LS12
ATOM	44901	C	ARG	L	19	157.264	88.464	-10.098	1.00	76.70	LS12
ATOM	44902	O	ARG	L	19	158.344	88.717	-10.618	1.00	76.70	LS12
ATOM	44903	N	LYS	L	20	157.126	88.278	-8.793	1.00	79.20	LS12
ATOM	44904	CA	LYS	L	20	158.281	88.362	-7.905	1.00	79.20	LS12
ATOM	44905	CB	LYS	L	20	157.833	88.803	-6.512	1.00	168.40	LS12
ATOM	44906	CG	LYS	L	20	157.093	90.133	-6.507	1.00	168.40	LS12
ATOM	44907	CD	LYS	L	20	156.546	90.474	-5.125	1.00	168.40	LS12
ATOM	44908	CE	LYS	L	20	155.777	91.793	-5.145	1.00	168.40	LS12
ATOM	44909	NZ	LYS	L	20	155.255	92.188	-3.803	1.00	168.40	LS12
ATOM	44910	C	LYS	L	20	158.980	86.999	-7.833	1.00	79.20	LS12
ATOM	44911	O	LYS	L	20	158.318	85.959	-7.799	1.00	79.20	LS12
ATOM	44912	N	LYS	L	21	160.314	87.002	-7.824	1.00	68.95	LS12
ATOM	44913	CA	LYS	L	21	161.084	85.753	-7.756	1.00	68.95	LS12
ATOM	44914	CB	LYS	L	21	162.254	85.789	-8.743	1.00	180.45	LS12
ATOM	44915	CG	LYS	L	21	161.821	85.810	-10.202	1.00	180.45	LS12
ATOM	44916	CD	LYS	L	21	163.012	85.779	-11.144	1.00	180.45	LS12
ATOM	44917	CE	LYS	L	21	162.563	85.774	-12.600	1.00	180.45	LS12
ATOM	44918	NZ	LYS	L	21	163.721	85.711	-13.539	1.00	180.45	LS12
ATOM	44919	C	LYS	L	21	161.606	85.514	-6.347	1.00	68.95	LS12
ATOM	44920	O	LYS	L	21	162.316	86.354	-5.786	1.00	68.95	LS12
ATOM	44921	N	SER	L	22	161.246	84.364	-5.782	1.00	80.02	LS12
ATOM	44922	CA	SER	L	22	161.649	84.012	-4.425	1.00	80.02	LS12
ATOM	44923	CB	SER	L	22	161.218	82.594	-4.068	1.00	64.88	LS12
ATOM	44924	OG	SER	L	22	161.879	82.171	-2.884	1.00	64.88	LS12
ATOM	44925	C	SER	L	22	163.131	84.095	-4.233	1.00	80.02	LS12
ATOM	44926	O	SER	L	22	163.893	83.834	-5.162	1.00	80.02	LS12
ATOM	44927	N	LYS	L	23	163.542	84.443	-3.020	1.00	52.85	LS12
ATOM	44928	CA	LYS	L	23	164.962	84.528	-2.732	1.00	52.85	LS12
ATOM	44929	CB	LYS	L	23	165.325	85.909	-2.189	1.00	111.69	LS12
ATOM	44930	CG	LYS	L	23	165.439	86.944	-3.284	1.00	111.69	LS12
ATOM	44931	CD	LYS	L	23	165.905	88.285	-2.774	1.00	111.69	LS12
ATOM	44932	CE	LYS	L	23	166.009	89.260	-3.934	1.00	111.69	LS12
ATOM	44933	NZ	LYS	L	23	166.500	90.598	-3.506	1.00	111.69	LS12
ATOM	44934	C	LYS	L	23	165.375	83.465	-1.749	1.00	52.85	LS12
ATOM	44935	O	LYS	L	23	166.446	83.543	-1.167	1.00	52.85	LS12
ATOM	44936	N	VAL	L	24	164.538	82.451	-1.585	1.00	55.35	LS12
ATOM	44937	CA	VAL	L	24	164.832	81.405	-0.626	1.00	55.35	LS12
ATOM	44938	CB	VAL	L	24	164.445	81.852	0.820	1.00	59.95	LS12
ATOM	44939	CG1	VAL	L	24	164.382	80.655	1.754	1.00	59.95	LS12
ATOM	44940	CG2	VAL	L	24	165.460	82.851	1.354	1.00	59.95	LS12
ATOM	44941	C	VAL	L	24	164.086	80.125	-0.921	1.00	55.35	LS12
ATOM	44942	O	VAL	L	24	162.950	79.964	-0.492	1.00	55.35	LS12
ATOM	44943	N	PRO	L	25	164.676	79.228	-1.718	1.00	55.10	LS12
ATOM	44944	CD	PRO	L	25	165.438	79.601	-2.924	1.00	36.67	LS12
ATOM	44945	CA	PRO	L	25	163.911	77.993	-1.948	1.00	55.10	LS12
ATOM	44946	CB	PRO	L	25	164.415	77.526	-3.300	1.00	36.67	LS12
ATOM	44947	CG	PRO	L	25	164.688	78.858	-3.995	1.00	36.67	LS12
ATOM	44948	C	PRO	L	25	164.090	76.958	-0.807	1.00	55.10	LS12
ATOM	44949	O	PRO	L	25	164.741	75.911	-0.934	1.00	55.10	LS12



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ATOM	44950	N	ALA	L	26	163.498	77.317	0.333	1.00106.34	LS12
ATOM	44951	CA	ALA	L	26	163.471	76.498	1.539	1.00106.34	LS12
ATOM	44952	CB	ALA	L	26	163.117	77.381	2.799	1.00 1.61	LS12
ATOM	44953	C	ALA	L	26	162.311	75.594	1.177	1.00106.34	LS12
ATOM	44954	O	ALA	L	26	161.594	75.098	2.042	1.00106.34	LS12
ATOM	44955	N	LEU	L	27	162.145	75.425	-0.136	1.00 81.30	LS12
ATOM	44956	CA	LEU	L	27	161.080	74.637	-0.758	1.00 81.30	LS12
ATOM	44957	CB	LEU	L	27	161.434	73.145	-0.817	1.00134.61	LS12
ATOM	44958	CG	LEU	L	27	160.506	72.294	-1.704	1.00134.61	LS12
ATOM	44959	CD1	LEU	L	27	160.953	72.425	-3.153	1.00134.61	LS12
ATOM	44960	CD2	LEU	L	27	160.534	70.830	-1.281	1.00134.61	LS12
ATOM	44961	C	LEU	L	27	159.789	74.808	0.005	1.00 81.30	LS12
ATOM	44962	O	LEU	L	27	159.723	75.606	0.937	1.00 81.30	LS12
ATOM	44963	N	LYS	L	28	158.773	74.046	-0.392	1.00198.94	LS12
ATOM	44964	CA	LYS	L	28	157.461	74.095	0.240	1.00198.94	LS12
ATOM	44965	CB	LYS	L	28	157.406	73.186	1.476	1.00162.32	LS12
ATOM	44966	CG	LYS	L	28	157.328	71.687	1.220	1.00162.32	LS12
ATOM	44967	CD	LYS	L	28	156.864	70.979	2.493	1.00162.32	LS12
ATOM	44968	CE	LYS	L	28	156.974	69.467	2.399	1.00162.32	LS12
ATOM	44969	NZ	LYS	L	28	156.547	68.819	3.672	1.00162.32	LS12
ATOM	44970	C	LYS	L	28	157.130	75.508	0.685	1.00198.94	LS12
ATOM	44971	O	LYS	L	28	156.163	75.714	1.422	1.00198.94	LS12
ATOM	44972	N	GLY	L	29	157.919	76.481	0.236	1.00 49.94	LS12
ATOM	44973	CA	GLY	L	29	157.691	77.844	0.665	1.00 49.94	LS12
ATOM	44974	C	GLY	L	29	157.457	77.851	2.170	1.00 49.94	LS12
ATOM	44975	O	GLY	L	29	156.590	78.565	2.688	1.00 49.94	LS12
ATOM	44976	N	ALA	L	30	158.240	77.041	2.875	1.00 66.87	LS12
ATOM	44977	CA	ALA	L	30	158.119	76.919	4.317	1.00 66.87	LS12
ATOM	44978	CB	ALA	L	30	158.706	75.636	4.749	1.00 18.25	LS12
ATOM	44979	C	ALA	L	30	158.785	78.052	5.066	1.00 66.87	LS12
ATOM	44980	O	ALA	L	30	159.544	78.833	4.489	1.00 66.87	LS12
ATOM	44981	N	PRO	L	31	158.489	78.163	6.370	1.00 41.24	LS12
ATOM	44982	CD	PRO	L	31	157.413	77.412	7.035	1.00 59.77	LS12
ATOM	44983	CA	PRO	L	31	159.041	79.193	7.264	1.00 41.24	LS12
ATOM	44984	CB	PRO	L	31	158.106	79.164	8.474	1.00 59.77	LS12
ATOM	44985	CG	PRO	L	31	156.868	78.436	7.974	1.00 59.77	LS12
ATOM	44986	C	PRO	L	31	160.445	78.759	7.653	1.00 41.24	LS12
ATOM	44987	O	PRO	L	31	161.343	79.578	7.821	1.00 41.24	LS12
ATOM	44988	N	PHE	L	32	160.611	77.451	7.809	1.00 72.32	LS12
ATOM	44989	CA	PHE	L	32	161.891	76.865	8.169	1.00 72.32	LS12
ATOM	44990	CB	PHE	L	32	162.026	76.714	9.670	1.00 34.74	LS12
ATOM	44991	CG	PHE	L	32	161.779	77.955	10.413	1.00 34.74	LS12
ATOM	44992	CD1	PHE	L	32	162.723	78.968	10.414	1.00 34.74	LS12
ATOM	44993	CD2	PHE	L	32	160.591	78.123	11.109	1.00 34.74	LS12
ATOM	44994	CE1	PHE	L	32	162.485	80.137	11.101	1.00 34.74	LS12
ATOM	44995	CE2	PHE	L	32	160.337	79.278	11.800	1.00 34.74	LS12
ATOM	44996	CZ	PHE	L	32	161.282	80.295	11.800	1.00 34.74	LS12
ATOM	44997	C	PHE	L	32	161.972	75.485	7.582	1.00 72.32	LS12
ATOM	44998	O	PHE	L	32	161.006	74.966	7.022	1.00 72.32	LS12
ATOM	44999	N	ARG	L	33	163.133	74.877	7.744	1.00 67.30	LS12
ATOM	45000	CA	ARG	L	33	163.337	73.540	7.247	1.00 67.30	LS12
ATOM	45001	CB	ARG	L	33	163.437	73.548	5.724	1.00 99.51	LS12
ATOM	45002	CG	ARG	L	33	163.554	72.172	5.117	1.00 99.51	LS12
ATOM	45003	CD	ARG	L	33	162.541	71.966	4.003	1.00 99.51	LS12
ATOM	45004	NE	ARG	L	33	161.165	71.975	4.490	1.00 99.51	LS12
ATOM	45005	CZ	ARG	L	33	160.106	71.627	3.760	1.00 99.51	LS12
ATOM	45006	NH1	ARG	L	33	160.254	71.237	2.499	1.00 99.51	LS12
ATOM	45007	NH2	ARG	L	33	158.894	71.660	4.297	1.00 99.51	LS12
ATOM	45008	C	ARG	L	33	164.627	73.084	7.863	1.00 67.30	LS12
ATOM	45009	O	ARG	L	33	165.588	73.849	7.932	1.00 67.30	LS12
ATOM	45010	N	ARG	L	34	164.636	71.848	8.343	1.00 54.93	LS12
ATOM	45011	CA	ARG	L	34	165.835	71.307	8.950	1.00 54.93	LS12
ATOM	45012	CB	ARG	L	34	165.479	70.407	10.123	1.00101.95	LS12
ATOM	45013	CG	ARG	L	34	164.660	69.221	9.723	1.00101.95	LS12
ATOM	45014	CD	ARG	L	34	164.828	68.134	10.733	1.00101.95	LS12
ATOM	45015	NE	ARG	L	34	164.172	66.906	10.312	1.00101.95	LS12
ATOM	45016	CZ	ARG	L	34	164.308	65.746	10.943	1.00101.95	LS12
ATOM	45017	NH1	ARG	L	34	165.081	65.663	12.023	1.00101.95	LS12
ATOM	45018	NH2	ARG	L	34	163.671	64.672	10.498	1.00101.95	LS12
ATOM	45019	C	ARG	L	34	166.682	70.521	7.947	1.00 54.93	LS12
ATOM	45020	O	ARG	L	34	166.232	70.137	6.855	1.00 54.93	LS12
ATOM	45021	N	GLY	L	35	167.927	70.294	8.336	1.00 88.84	LS12
ATOM	45022	CA	GLY	L	35	168.834	69.566	7.485	1.00 88.84	LS12
ATOM	45023	C	GLY	L	35	169.957	69.008	8.320	1.00 88.84	LS12
ATOM	45024	O	GLY	L	35	169.909	69.041	9.556	1.00 88.84	LS12
ATOM	45025	N	VAL	L	36	170.972	68.493	7.639	1.00 76.17	LS12
ATOM	45026	CA	VAL	L	36	172.121	67.927	8.317	1.00 76.17	LS12



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ATOM	45027	CB	VAL	L	36	172.240	66.440	8.033	1.00	59.13	LS12
ATOM	45028	CG1	VAL	L	36	173.305	65.848	8.910	1.00	59.13	LS12
ATOM	45029	CG2	VAL	L	36	170.909	65.762	8.265	1.00	59.13	LS12
ATOM	45030	C	VAL	L	36	173.373	68.617	7.817	1.00	76.17	LS12
ATOM	45031	O	VAL	L	36	173.476	68.955	6.638	1.00	76.17	LS12
ATOM	45032	N	CYS	L	37	174.321	68.845	8.711	1.00	69.06	LS12
ATOM	45033	CA	CYS	L	37	175.546	69.494	8.297	1.00	69.06	LS12
ATOM	45034	CB	CYS	L	37	176.327	69.981	9.504	1.00	99.93	LS12
ATOM	45035	SG	CYS	L	37	175.495	71.323	10.325	1.00	99.93	LS12
ATOM	45036	C	CYS	L	37	176.378	68.518	7.501	1.00	69.06	LS12
ATOM	45037	O	CYS	L	37	176.359	67.317	7.751	1.00	69.06	LS12
ATOM	45038	N	THR	L	38	177.103	69.041	6.529	1.00	65.91	LS12
ATOM	45039	CA	THR	L	38	177.939	68.214	5.695	1.00	65.91	LS12
ATOM	45040	CB	THR	L	38	177.577	68.399	4.228	1.00	72.50	LS12
ATOM	45041	OG1	THR	L	38	176.362	67.696	3.955	1.00	72.50	LS12
ATOM	45042	CG2	THR	L	38	178.684	67.894	3.331	1.00	72.50	LS12
ATOM	45043	C	THR	L	38	179.357	68.657	5.907	1.00	65.91	LS12
ATOM	45044	O	THR	L	38	180.232	67.857	6.204	1.00	65.91	LS12
ATOM	45045	N	VAL	L	39	179.569	69.953	5.760	1.00	81.59	LS12
ATOM	45046	CA	VAL	L	39	180.886	70.531	5.912	1.00	81.59	LS12
ATOM	45047	CB	VAL	L	39	181.453	70.926	4.550	1.00	78.24	LS12
ATOM	45048	CG1	VAL	L	39	182.903	71.318	4.684	1.00	78.24	LS12
ATOM	45049	CG2	VAL	L	39	181.286	69.785	3.578	1.00	78.24	LS12
ATOM	45050	C	VAL	L	39	180.753	71.787	6.742	1.00	81.59	LS12
ATOM	45051	O	VAL	L	39	179.965	72.670	6.404	1.00	81.59	LS12
ATOM	45052	N	VAL	L	40	181.510	71.877	7.827	1.00	47.15	LS12
ATOM	45053	CA	VAL	L	40	181.444	73.068	8.659	1.00	47.15	LS12
ATOM	45054	CB	VAL	L	40	181.336	72.691	10.145	1.00	41.05	LS12
ATOM	45055	CG1	VAL	L	40	181.399	73.941	11.013	1.00	41.05	LS12
ATOM	45056	CG2	VAL	L	40	180.025	71.979	10.388	1.00	41.05	LS12
ATOM	45057	C	VAL	L	40	182.672	73.945	8.423	1.00	47.15	LS12
ATOM	45058	O	VAL	L	40	183.538	74.047	9.278	1.00	47.15	LS12
ATOM	45059	N	ARG	L	41	182.725	74.596	7.265	1.00	59.99	LS12
ATOM	45060	CA	ARG	L	41	183.860	75.435	6.897	1.00	59.99	LS12
ATOM	45061	CB	ARG	L	41	183.861	75.641	5.382	1.00	101.63	LS12
ATOM	45062	CG	ARG	L	41	185.114	76.282	4.826	1.00	101.63	LS12
ATOM	45063	CD	ARG	L	41	184.944	76.498	3.360	1.00	101.63	LS12
ATOM	45064	NE	ARG	L	41	184.582	75.240	2.720	1.00	101.63	LS12
ATOM	45065	CZ	ARG	L	41	183.713	75.124	1.719	1.00	101.63	LS12
ATOM	45066	NH1	ARG	L	41	183.101	76.199	1.229	1.00	101.63	LS12
ATOM	45067	NH2	ARG	L	41	183.451	73.925	1.209	1.00	101.63	LS12
ATOM	45068	C	ARG	L	41	183.981	76.804	7.592	1.00	59.99	LS12
ATOM	45069	O	ARG	L	41	183.290	77.114	8.573	1.00	59.99	LS12
ATOM	45070	N	THR	L	42	184.903	77.598	7.058	1.00	75.08	LS12
ATOM	45071	CA	THR	L	42	185.216	78.942	7.510	1.00	75.08	LS12
ATOM	45072	CB	THR	L	42	186.502	78.968	8.326	1.00	113.12	LS12
ATOM	45073	OG1	THR	L	42	186.273	78.338	9.587	1.00	113.12	LS12
ATOM	45074	CG2	THR	L	42	186.969	80.391	8.538	1.00	113.12	LS12
ATOM	45075	C	THR	L	42	185.473	79.713	6.234	1.00	75.08	LS12
ATOM	45076	O	THR	L	42	186.470	79.472	5.554	1.00	75.08	LS12
ATOM	45077	N	VAL	L	43	184.576	80.634	5.907	1.00	63.72	LS12
ATOM	45078	CA	VAL	L	43	184.710	81.423	4.693	1.00	63.72	LS12
ATOM	45079	CB	VAL	L	43	183.348	81.551	3.987	1.00	94.36	LS12
ATOM	45080	CG1	VAL	L	43	183.500	82.281	2.666	1.00	94.36	LS12
ATOM	45081	CG2	VAL	L	43	182.764	80.175	3.761	1.00	94.36	LS12
ATOM	45082	C	VAL	L	43	185.262	82.816	4.976	1.00	63.72	LS12
ATOM	45083	O	VAL	L	43	185.273	83.277	6.123	1.00	63.72	LS12
ATOM	45084	N	THR	L	44	185.727	83.477	3.922	1.00	79.19	LS12
ATOM	45085	CA	THR	L	44	186.265	84.825	4.030	1.00	79.19	LS12
ATOM	45086	CB	THR	L	44	187.642	84.900	3.362	1.00	95.07	LS12
ATOM	45087	OG1	THR	L	44	187.713	83.917	2.321	1.00	95.07	LS12
ATOM	45088	CG2	THR	L	44	188.740	84.639	4.378	1.00	95.07	LS12
ATOM	45089	C	THR	L	44	185.305	85.815	3.358	1.00	79.19	LS12
ATOM	45090	O	THR	L	44	184.774	85.535	2.287	1.00	79.19	LS12
ATOM	45091	N	PRO	L	45	185.067	86.982	3.987	1.00	70.03	LS12
ATOM	45092	CD	PRO	L	45	185.586	87.371	5.306	1.00	125.61	LS12
ATOM	45093	CA	PRO	L	45	184.171	88.023	3.468	1.00	70.03	LS12
ATOM	45094	CB	PRO	L	45	184.234	89.105	4.542	1.00	125.61	LS12
ATOM	45095	CG	PRO	L	45	184.531	88.335	5.776	1.00	125.61	LS12
ATOM	45096	C	PRO	L	45	184.563	88.567	2.098	1.00	70.03	LS12
ATOM	45097	O	PRO	L	45	185.654	88.290	1.590	1.00	70.03	LS12
ATOM	45098	N	LYS	L	46	183.671	89.369	1.526	1.00	42.34	LS12
ATOM	45099	CA	LYS	L	46	183.878	89.955	0.205	1.00	42.34	LS12
ATOM	45100	CB	LYS	L	46	182.526	89.945	-0.536	1.00	88.72	LS12
ATOM	45101	CG	LYS	L	46	182.592	90.003	-2.066	1.00	88.72	LS12
ATOM	45102	CD	LYS	L	46	181.190	89.930	-2.688	1.00	88.72	LS12
ATOM	45103	CE	LYS	L	46	180.489	91.290	-2.749	1.00	88.72	LS12



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ATOM	45104	NZ	LYS	L	46	180.925	92.103	-3.921	1.00	88.72	LS12
ATOM	45105	C	LYS	L	46	184.515	91.380	0.145	1.00	42.34	LS12
ATOM	45106	O	LYS	L	46	185.282	91.811	1.018	1.00	42.34	LS12
ATOM	45107	N	LYS	L	47	184.162	92.095	-0.916	1.00	95.46	LS12
ATOM	45108	CA	LYS	L	47	184.657	93.431	-1.183	1.00	95.46	LS12
ATOM	45109	CB	LYS	L	47	183.485	94.386	-1.468	1.00	140.57	LS12
ATOM	45110	CG	LYS	L	47	182.730	94.081	-2.757	1.00	140.57	LS12
ATOM	45111	CD	LYS	L	47	181.768	95.203	-3.153	1.00	140.57	LS12
ATOM	45112	CE	LYS	L	47	181.199	94.974	-4.558	1.00	140.57	LS12
ATOM	45113	NZ	LYS	L	47	180.364	96.106	-5.052	1.00	140.57	LS12
ATOM	45114	C	LYS	L	47	185.605	94.009	-0.139	1.00	95.46	LS12
ATOM	45115	O	LYS	L	47	186.806	93.781	-0.223	1.00	95.46	LS12
ATOM	45116	N	PRO	L	48	185.092	94.720	0.878	1.00	105.23	LS12
ATOM	45117	CD	PRO	L	48	183.727	95.204	1.150	1.00	36.02	LS12
ATOM	45118	CA	PRO	L	48	186.030	95.277	1.856	1.00	105.23	LS12
ATOM	45119	CB	PRO	L	48	185.363	96.586	2.234	1.00	36.02	LS12
ATOM	45120	CG	PRO	L	48	183.939	96.180	2.320	1.00	36.02	LS12
ATOM	45121	C	PRO	L	48	186.333	94.440	3.086	1.00	105.23	LS12
ATOM	45122	O	PRO	L	48	187.488	94.241	3.453	1.00	105.23	LS12
ATOM	45123	N	ASN	L	49	185.279	93.974	3.731	1.00	73.52	LS12
ATOM	45124	CA	ASN	L	49	185.399	93.186	4.941	1.00	73.52	LS12
ATOM	45125	CB	ASN	L	49	184.019	92.749	5.380	1.00	64.78	LS12
ATOM	45126	CG	ASN	L	49	183.171	93.899	5.778	1.00	64.78	LS12
ATOM	45127	OD1	ASN	L	49	181.984	93.744	6.055	1.00	64.78	LS12
ATOM	45128	ND2	ASN	L	49	183.774	95.081	5.821	1.00	64.78	LS12
ATOM	45129	C	ASN	L	49	186.290	91.959	4.902	1.00	73.52	LS12
ATOM	45130	O	ASN	L	49	186.469	91.334	3.858	1.00	73.52	LS12
ATOM	45131	N	SER	L	50	186.836	91.617	6.064	1.00	63.33	LS12
ATOM	45132	CA	SER	L	50	187.669	90.433	6.212	1.00	63.33	LS12
ATOM	45133	CB	SER	L	50	189.146	90.785	6.068	1.00	95.13	LS12
ATOM	45134	OG	SER	L	50	189.952	89.679	6.439	1.00	95.13	LS12
ATOM	45135	C	SER	L	50	187.416	89.822	7.589	1.00	63.33	LS12
ATOM	45136	O	SER	L	50	187.162	90.547	8.550	1.00	63.33	LS12
ATOM	45137	N	ALA	L	51	187.476	88.495	7.670	1.00	51.47	LS12
ATOM	45138	CA	ALA	L	51	187.265	87.758	8.915	1.00	51.47	LS12
ATOM	45139	CB	ALA	L	51	186.127	88.374	9.723	1.00	82.36	LS12
ATOM	45140	C	ALA	L	51	186.927	86.321	8.552	1.00	51.47	LS12
ATOM	45141	O	ALA	L	51	186.806	85.994	7.381	1.00	51.47	LS12
ATOM	45142	N	LEU	L	52	186.763	85.459	9.545	1.00	79.07	LS12
ATOM	45143	CA	LEU	L	52	186.445	84.066	9.266	1.00	79.07	LS12
ATOM	45144	CB	LEU	L	52	187.407	83.153	10.025	1.00	103.97	LS12
ATOM	45145	CG	LEU	L	52	188.900	83.439	9.857	1.00	103.97	LS12
ATOM	45146	CD1	LEU	L	52	189.696	82.371	10.583	1.00	103.97	LS12
ATOM	45147	CD2	LEU	L	52	189.266	83.466	8.387	1.00	103.97	LS12
ATOM	45148	C	LEU	L	52	185.009	83.735	9.654	1.00	79.07	LS12
ATOM	45149	O	LEU	L	52	184.728	83.397	10.808	1.00	79.07	LS12
ATOM	45150	N	ARG	L	53	184.094	83.829	8.696	1.00	68.06	LS12
ATOM	45151	CA	ARG	L	53	182.698	83.533	8.992	1.00	68.06	LS12
ATOM	45152	CB	ARG	L	53	181.785	84.101	7.901	1.00	75.47	LS12
ATOM	45153	CG	ARG	L	53	181.476	85.589	8.049	1.00	75.47	LS12
ATOM	45154	CD	ARG	L	53	182.746	86.417	8.013	1.00	75.47	LS12
ATOM	45155	NE	ARG	L	53	182.590	87.746	8.612	1.00	75.47	LS12
ATOM	45156	CZ	ARG	L	53	181.951	88.769	8.050	1.00	75.47	LS12
ATOM	45157	NH1	ARG	L	53	181.379	88.639	6.850	1.00	75.47	LS12
ATOM	45158	NH2	ARG	L	53	181.907	89.934	8.689	1.00	75.47	LS12
ATOM	45159	C	ARG	L	53	182.473	82.039	9.131	1.00	68.06	LS12
ATOM	45160	O	ARG	L	53	183.009	81.254	8.357	1.00	68.06	LS12
ATOM	45161	N	LYS	L	54	181.695	81.644	10.132	1.00	66.14	LS12
ATOM	45162	CA	LYS	L	54	181.406	80.227	10.335	1.00	66.14	LS12
ATOM	45163	CB	LYS	L	54	181.066	79.950	11.802	1.00	76.15	LS12
ATOM	45164	CG	LYS	L	54	182.292	79.975	12.741	1.00	76.15	LS12
ATOM	45165	CD	LYS	L	54	183.108	81.267	12.610	1.00	76.15	LS12
ATOM	45166	CE	LYS	L	54	184.330	81.245	13.507	1.00	76.15	LS12
ATOM	45167	NZ	LYS	L	54	185.231	82.398	13.229	1.00	76.15	LS12
ATOM	45168	C	LYS	L	54	180.260	79.820	9.414	1.00	66.14	LS12
ATOM	45169	O	LYS	L	54	179.191	80.430	9.404	1.00	66.14	LS12
ATOM	45170	N	VAL	L	55	180.491	78.769	8.644	1.00	55.15	LS12
ATOM	45171	CA	VAL	L	55	179.519	78.326	7.666	1.00	55.15	LS12
ATOM	45172	CB	VAL	L	55	180.114	78.590	6.273	1.00	64.57	LS12
ATOM	45173	CG1	VAL	L	55	179.142	78.212	5.202	1.00	64.57	LS12
ATOM	45174	CG2	VAL	L	55	180.496	80.062	6.159	1.00	64.57	LS12
ATOM	45175	C	VAL	L	55	179.144	76.855	7.821	1.00	55.15	LS12
ATOM	45176	O	VAL	L	55	179.642	76.184	8.712	1.00	55.15	LS12
ATOM	45177	N	ALA	L	56	178.258	76.365	6.957	1.00	53.75	LS12
ATOM	45178	CA	ALA	L	56	177.836	74.964	6.980	1.00	53.75	LS12
ATOM	45179	CB	ALA	L	56	176.966	74.688	8.197	1.00	13.30	LS12
ATOM	45180	C	ALA	L	56	177.075	74.550	5.735	1.00	53.75	LS12



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ATOM	45181	O	ALA	L	56	176.123	75.213	5.338	1.00	53.75	LS12
ATOM	45182	N	LYS	L	57	177.503	73.459	5.111	1.00	68.65	LS12
ATOM	45183	CA	LYS	L	57	176.792	72.940	3.952	1.00	68.65	LS12
ATOM	45184	CB	LYS	L	57	177.671	71.970	3.154	1.00118.91	LS12	LS12
ATOM	45185	CG	LYS	L	57	178.914	72.585	2.524	1.00118.91	LS12	LS12
ATOM	45186	CD	LYS	L	57	178.572	73.571	1.407	1.00118.91	LS12	LS12
ATOM	45187	CE	LYS	L	57	179.839	74.107	0.727	1.00118.91	LS12	LS12
ATOM	45188	NZ	LYS	L	57	179.595	75.249	-0.211	1.00118.91	LS12	LS12
ATOM	45189	C	LYS	L	57	175.642	72.178	4.615	1.00	68.65	LS12
ATOM	45190	O	LYS	L	57	175.838	71.532	5.649	1.00	68.65	LS12
ATOM	45191	N	VAL	L	58	174.444	72.246	4.051	1.00	59.22	LS12
ATOM	45192	CA	VAL	L	58	173.322	71.552	4.671	1.00	59.22	LS12
ATOM	45193	CB	VAL	L	58	172.457	72.542	5.490	1.00	54.13	LS12
ATOM	45194	CG1	VAL	L	58	171.480	71.777	6.368	1.00	54.13	LS12
ATOM	45195	CG2	VAL	L	58	173.343	73.453	6.316	1.00	54.13	LS12
ATOM	45196	C	VAL	L	58	172.413	70.817	3.680	1.00	59.22	LS12
ATOM	45197	O	VAL	L	58	172.000	71.378	2.657	1.00	59.22	LS12
ATOM	45198	N	ARG	L	59	172.114	69.557	3.989	1.00	61.99	LS12
ATOM	45199	CA	ARG	L	59	171.240	68.737	3.159	1.00	61.99	LS12
ATOM	45200	CB	ARG	L	59	171.623	67.263	3.284	1.00155.42	LS12	LS12
ATOM	45201	CG	ARG	L	59	170.894	66.321	2.341	1.00155.42	LS12	LS12
ATOM	45202	CD	ARG	L	59	171.556	66.318	0.981	1.00155.42	LS12	LS12
ATOM	45203	NE	ARG	L	59	173.010	66.257	1.113	1.00155.42	LS12	LS12
ATOM	45204	CZ	ARG	L	59	173.859	66.127	0.096	1.00155.42	LS12	LS12
ATOM	45205	NH1	ARG	L	59	173.404	66.037	-1.148	1.00155.42	LS12	LS12
ATOM	45206	NH2	ARG	L	59	175.168	66.104	0.322	1.00155.42	LS12	LS12
ATOM	45207	C	ARG	L	59	169.885	68.950	3.795	1.00	61.99	LS12
ATOM	45208	O	ARG	L	59	169.689	68.556	4.942	1.00	61.99	LS12
ATOM	45209	N	LEU	L	60	168.962	69.581	3.074	1.00	96.13	LS12
ATOM	45210	CA	LEU	L	60	167.630	69.845	3.622	1.00	96.13	LS12
ATOM	45211	CB	LEU	L	60	167.031	71.135	3.033	1.00	51.27	LS12
ATOM	45212	CG	LEU	L	60	167.551	72.508	3.482	1.00	51.27	LS12
ATOM	45213	CD1	LEU	L	60	168.502	72.361	4.655	1.00	51.27	LS12
ATOM	45214	CD2	LEU	L	60	168.256	73.180	2.323	1.00	51.27	LS12
ATOM	45215	C	LEU	L	60	166.647	68.708	3.404	1.00	96.13	LS12
ATOM	45216	O	LEU	L	60	166.751	67.951	2.435	1.00	96.13	LS12
ATOM	45217	N	THR	L	61	165.693	68.599	4.325	1.00	80.66	LS12
ATOM	45218	CA	THR	L	61	164.660	67.577	4.248	1.00	80.66	LS12
ATOM	45219	CB	THR	L	61	163.645	67.705	5.404	1.00	91.52	LS12
ATOM	45220	OG1	THR	L	61	163.525	69.082	5.775	1.00	91.52	LS12
ATOM	45221	CG2	THR	L	61	164.076	66.882	6.608	1.00	91.52	LS12
ATOM	45222	C	THR	L	61	163.925	67.782	2.940	1.00	80.66	LS12
ATOM	45223	O	THR	L	61	163.223	66.892	2.462	1.00	80.66	LS12
ATOM	45224	N	SER	L	62	164.095	68.975	2.376	1.00	67.66	LS12
ATOM	45225	CA	SER	L	62	163.466	69.339	1.115	1.00	67.66	LS12
ATOM	45226	CB	SER	L	62	163.301	70.855	1.028	1.00	40.43	LS12
ATOM	45227	OG	SER	L	62	164.553	71.520	1.067	1.00	40.43	LS12
ATOM	45228	C	SER	L	62	164.305	68.852	-0.062	1.00	67.66	LS12
ATOM	45229	O	SER	L	62	163.960	69.084	-1.217	1.00	67.66	LS12
ATOM	45230	N	GLY	L	63	165.411	68.177	0.237	1.00	91.92	LS12
ATOM	45231	CA	GLY	L	63	166.263	67.666	-0.818	1.00	91.92	LS12
ATOM	45232	C	GLY	L	63	167.099	68.752	-1.458	1.00	91.92	LS12
ATOM	45233	O	GLY	L	63	167.363	68.718	-2.658	1.00	91.92	LS12
ATOM	45234	N	TYR	L	64	167.508	69.729	-0.656	1.00101.72	LS12	LS12
ATOM	45235	CA	TYR	L	64	168.337	70.820	-1.147	1.00101.72	LS12	LS12
ATOM	45236	CB	TYR	L	64	167.585	72.153	-1.063	1.00118.09	LS12	LS12
ATOM	45237	CG	TYR	L	64	166.676	72.409	-2.246	1.00118.09	LS12	LS12
ATOM	45238	CD1	TYR	L	64	165.645	71.528	-2.560	1.00118.09	LS12	LS12
ATOM	45239	CE1	TYR	L	64	164.819	71.745	-3.666	1.00118.09	LS12	LS12
ATOM	45240	CD2	TYR	L	64	166.861	73.522	-3.067	1.00118.09	LS12	LS12
ATOM	45241	CE2	TYR	L	64	166.040	73.748	-4.176	1.00118.09	LS12	LS12
ATOM	45242	CZ	TYR	L	64	165.021	72.855	-4.469	1.00118.09	LS12	LS12
ATOM	45243	OH	TYR	L	64	164.204	73.062	-5.560	1.00118.09	LS12	LS12
ATOM	45244	C	TYR	L	64	169.631	70.897	-0.353	1.00101.72	LS12	LS12
ATOM	45245	O	TYR	L	64	169.633	70.787	0.872	1.00101.72	LS12	LS12
ATOM	45246	N	GLU	L	65	170.736	71.066	-1.068	1.00	68.53	LS12
ATOM	45247	CA	GLU	L	65	172.052	71.165	-0.451	1.00	68.53	LS12
ATOM	45248	CB	GLU	L	65	173.081	70.389	-1.278	1.00193.22	LS12	LS12
ATOM	45249	CG	GLU	L	65	172.806	68.887	-1.397	1.00193.22	LS12	LS12
ATOM	45250	CD	GLU	L	65	171.476	68.554	-2.078	1.00193.22	LS12	LS12
ATOM	45251	OE1	GLU	L	65	171.257	68.990	-3.230	1.00193.22	LS12	LS12
ATOM	45252	OE2	GLU	L	65	170.650	67.847	-1.461	1.00193.22	LS12	LS12
ATOM	45253	C	GLU	L	65	172.391	72.645	-0.444	1.00	68.53	LS12
ATOM	45254	O	GLU	L	65	172.681	73.229	-1.492	1.00	68.53	LS12
ATOM	45255	N	VAL	L	66	172.348	73.255	0.737	1.00	53.73	LS12
ATOM	45256	CA	VAL	L	66	172.626	74.679	0.834	1.00	53.73	LS12
ATOM	45257	CB	VAL	L	66	171.322	75.458	1.036	1.00	50.59	LS12



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ATOM	45258	CG1	VAL	L	66	170.285	74.994	0.032	1.00	50.59	LS12
ATOM	45259	CG2	VAL	L	66	170.812	75.255	2.442	1.00	50.59	LS12
ATOM	45260	C	VAL	L	66	173.591	75.095	1.937	1.00	53.73	LS12
ATOM	45261	O	VAL	L	66	173.713	74.440	2.968	1.00	53.73	LS12
ATOM	45262	N	THR	L	67	174.276	76.202	1.698	1.00	58.96	LS12
ATOM	45263	CA	THR	L	67	175.207	76.760	2.657	1.00	58.96	LS12
ATOM	45264	CB	THR	L	67	176.233	77.627	1.965	1.00	64.48	LS12
ATOM	45265	OG1	THR	L	67	177.128	76.807	1.208	1.00	64.48	LS12
ATOM	45266	CG2	THR	L	67	176.986	78.429	2.975	1.00	64.48	LS12
ATOM	45267	C	THR	L	67	174.414	77.654	3.602	1.00	58.96	LS12
ATOM	45268	O	THR	L	67	173.570	78.446	3.165	1.00	58.96	LS12
ATOM	45269	N	ALA	L	68	174.695	77.546	4.892	1.00	79.96	LS12
ATOM	45270	CA	ALA	L	68	173.984	78.347	5.876	1.00	79.96	LS12
ATOM	45271	CB	ALA	L	68	172.995	77.479	6.610	1.00	47.76	LS12
ATOM	45272	C	ALA	L	68	174.930	79.004	6.869	1.00	79.96	LS12
ATOM	45273	O	ALA	L	68	175.918	78.401	7.298	1.00	79.96	LS12
ATOM	45274	N	TYR	L	69	174.622	80.241	7.244	1.00	67.53	LS12
ATOM	45275	CA	TYR	L	69	175.461	80.951	8.191	1.00	67.53	LS12
ATOM	45276	CB	TYR	L	69	175.194	82.437	8.132	1.00	70.16	LS12
ATOM	45277	CG	TYR	L	69	176.174	83.205	8.968	1.00	70.16	LS12
ATOM	45278	CD1	TYR	L	69	177.413	83.559	8.456	1.00	70.16	LS12
ATOM	45279	CE1	TYR	L	69	178.334	84.259	9.221	1.00	70.16	LS12
ATOM	45280	CD2	TYR	L	69	175.874	83.565	10.279	1.00	70.16	LS12
ATOM	45281	CE2	TYR	L	69	176.792	84.268	11.060	1.00	70.16	LS12
ATOM	45282	CZ	TYR	L	69	178.020	84.614	10.520	1.00	70.16	LS12
ATOM	45283	OH	TYR	L	69	178.935	85.329	11.259	1.00	70.16	LS12
ATOM	45284	C	TYR	L	69	175.218	80.490	9.621	1.00	67.53	LS12
ATOM	45285	O	TYR	L	69	174.106	80.082	9.969	1.00	67.53	LS12
ATOM	45286	N	ILE	L	70	176.255	80.565	10.451	1.00	51.95	LS12
ATOM	45287	CA	ILE	L	70	176.128	80.169	11.851	1.00	51.95	LS12
ATOM	45288	CB	ILE	L	70	177.205	79.135	12.271	1.00	55.05	LS12
ATOM	45289	CG2	ILE	L	70	176.739	78.383	13.501	1.00	55.05	LS12
ATOM	45290	CG1	ILE	L	70	177.459	78.121	11.154	1.00	55.05	LS12
ATOM	45291	CD1	ILE	L	70	178.595	77.172	11.468	1.00	55.05	LS12
ATOM	45292	C	ILE	L	70	176.309	81.416	12.710	1.00	51.95	LS12
ATOM	45293	O	ILE	L	70	177.416	81.721	13.156	1.00	51.95	LS12
ATOM	45294	N	PRO	L	71	175.220	82.157	12.958	1.00	58.55	LS12
ATOM	45295	CD	PRO	L	71	173.821	81.814	12.660	1.00	56.78	LS12
ATOM	45296	CA	PRO	L	71	175.285	83.376	13.768	1.00	58.55	LS12
ATOM	45297	CB	PRO	L	71	173.856	83.887	13.730	1.00	56.78	LS12
ATOM	45298	CG	PRO	L	71	173.075	82.622	13.698	1.00	56.78	LS12
ATOM	45299	C	PRO	L	71	175.752	83.116	15.186	1.00	58.55	LS12
ATOM	45300	O	PRO	L	71	175.772	81.977	15.651	1.00	58.55	LS12
ATOM	45301	N	GLY	L	72	176.132	84.187	15.864	1.00	87.93	LS12
ATOM	45302	CA	GLY	L	72	176.586	84.061	17.231	1.00	87.93	LS12
ATOM	45303	C	GLY	L	72	178.072	83.810	17.361	1.00	87.93	LS12
ATOM	45304	O	GLY	L	72	178.707	83.339	16.419	1.00	87.93	LS12
ATOM	45305	N	GLU	L	73	178.612	84.124	18.539	1.00	106.38	LS12
ATOM	45306	CA	GLU	L	73	180.026	83.958	18.854	1.00	106.38	LS12
ATOM	45307	CB	GLU	L	73	180.250	84.232	20.339	1.00	90.07	LS12
ATOM	45308	CG	GLU	L	73	179.968	85.675	20.764	1.00	90.07	LS12
ATOM	45309	CD	GLU	L	73	180.992	86.663	20.220	1.00	90.07	LS12
ATOM	45310	OE1	GLU	L	73	180.996	87.838	20.664	1.00	90.07	LS12
ATOM	45311	OE2	GLU	L	73	181.791	86.259	19.345	1.00	90.07	LS12
ATOM	45312	C	GLU	L	73	180.574	82.578	18.496	1.00	106.38	LS12
ATOM	45313	O	GLU	L	73	181.190	82.408	17.445	1.00	106.38	LS12
ATOM	45314	N	GLY	L	74	180.357	81.589	19.358	1.00	75.04	LS12
ATOM	45315	CA	GLY	L	74	180.868	80.260	19.058	1.00	75.04	LS12
ATOM	45316	C	GLY	L	74	179.782	79.211	18.943	1.00	75.04	LS12
ATOM	45317	O	GLY	L	74	178.735	79.351	19.579	1.00	75.04	LS12
ATOM	45318	N	HIS	L	75	180.028	78.163	18.152	1.00	71.91	LS12
ATOM	45319	CA	HIS	L	75	179.043	77.095	17.960	1.00	71.91	LS12
ATOM	45320	CB	HIS	L	75	178.530	77.107	16.532	1.00	71.77	LS12
ATOM	45321	CG	HIS	L	75	179.530	76.620	15.531	1.00	71.77	LS12
ATOM	45322	CD2	HIS	L	75	179.712	75.398	14.978	1.00	71.77	LS12
ATOM	45323	ND1	HIS	L	75	180.489	77.439	14.975	1.00	71.77	LS12
ATOM	45324	CE1	HIS	L	75	181.215	76.744	14.118	1.00	71.77	LS12
ATOM	45325	NE2	HIS	L	75	180.763	75.502	14.101	1.00	71.77	LS12
ATOM	45326	C	HIS	L	75	179.548	75.685	18.256	1.00	71.91	LS12
ATOM	45327	O	HIS	L	75	180.585	75.499	18.879	1.00	71.91	LS12
ATOM	45328	N	ASN	L	76	178.815	74.690	17.772	1.00	56.52	LS12
ATOM	45329	CA	ASN	L	76	179.167	73.293	17.997	1.00	56.52	LS12
ATOM	45330	CB	ASN	L	76	178.586	72.837	19.332	1.00	52.09	LS12
ATOM	45331	CG	ASN	L	76	177.068	72.870	19.335	1.00	52.09	LS12
ATOM	45332	OD1	ASN	L	76	176.459	73.919	19.148	1.00	52.09	LS12
ATOM	45333	ND2	ASN	L	76	176.451	71.719	19.531	1.00	52.09	LS12
ATOM	45334	C	ASN	L	76	178.577	72.429	16.887	1.00	56.52	LS12



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ATOM	45335	O	ASN	L	76	177.903	71.432	17.154	1.00	56.52	LS12
ATOM	45336	N	LEU	L	77	178.813	72.802	15.642	1.00	69.56	LS12
ATOM	45337	CA	LEU	L	77	178.250	72.028	14.551	1.00	69.56	LS12
ATOM	45338	CB	LEU	L	77	177.631	72.977	13.528	1.00	57.65	LS12
ATOM	45339	CG	LEU	L	77	176.702	74.039	14.145	1.00	57.65	LS12
ATOM	45340	CD1	LEU	L	77	176.188	75.000	13.051	1.00	57.65	LS12
ATOM	45341	CD2	LEU	L	77	175.548	73.348	14.884	1.00	57.65	LS12
ATOM	45342	C	LEU	L	77	179.329	71.159	13.923	1.00	69.56	LS12
ATOM	45343	O	LEU	L	77	180.436	71.632	13.665	1.00	69.56	LS12
ATOM	45344	N	GLN	L	78	178.999	69.888	13.689	1.00	58.14	LS12
ATOM	45345	CA	GLN	L	78	179.940	68.915	13.123	1.00	58.14	LS12
ATOM	45346	CB	GLN	L	78	180.278	67.847	14.168	1.00	113.76	LS12
ATOM	45347	CG	GLN	L	78	181.151	68.317	15.319	1.00	113.76	LS12
ATOM	45348	CD	GLN	L	78	181.072	67.387	16.513	1.00	113.76	LS12
ATOM	45349	OE1	GLN	L	78	181.084	66.165	16.365	1.00	113.76	LS12
ATOM	45350	NE2	GLN	L	78	180.996	67.962	17.707	1.00	113.76	LS12
ATOM	45351	C	GLN	L	78	179.451	68.204	11.868	1.00	58.14	LS12
ATOM	45352	O	GLN	L	78	178.350	68.439	11.384	1.00	58.14	LS12
ATOM	45353	N	GLU	L	79	180.277	67.292	11.375	1.00	127.42	LS12
ATOM	45354	CA	GLU	L	79	179.966	66.543	10.174	1.00	127.42	LS12
ATOM	45355	CB	GLU	L	79	181.038	65.496	9.917	1.00	171.65	LS12
ATOM	45356	CG	GLU	L	79	182.167	65.996	9.065	1.00	171.65	LS12
ATOM	45357	CD	GLU	L	79	182.751	64.895	8.220	1.00	171.65	LS12
ATOM	45358	OE1	GLU	L	79	181.978	64.266	7.463	1.00	171.65	LS12
ATOM	45359	OE2	GLU	L	79	183.974	64.659	8.312	1.00	171.65	LS12
ATOM	45360	C	GLU	L	79	178.613	65.866	10.073	1.00	127.42	LS12
ATOM	45361	O	GLU	L	79	178.330	65.266	9.041	1.00	127.42	LS12
ATOM	45362	N	HIS	L	80	177.776	65.934	11.107	1.00	59.52	LS12
ATOM	45363	CA	HIS	L	80	176.462	65.288	11.027	1.00	59.52	LS12
ATOM	45364	CB	HIS	L	80	176.584	63.809	11.365	1.00	124.63	LS12
ATOM	45365	CG	HIS	L	80	177.516	63.084	10.460	1.00	124.63	LS12
ATOM	45366	CD2	HIS	L	80	178.745	62.562	10.676	1.00	124.63	LS12
ATOM	45367	ND1	HIS	L	80	177.274	62.953	9.110	1.00	124.63	LS12
ATOM	45368	CE1	HIS	L	80	178.318	62.385	8.532	1.00	124.63	LS12
ATOM	45369	NE2	HIS	L	80	179.225	62.139	9.460	1.00	124.63	LS12
ATOM	45370	C	HIS	L	80	175.439	65.929	11.930	1.00	59.52	LS12
ATOM	45371	O	HIS	L	80	174.394	65.336	12.236	1.00	59.52	LS12
ATOM	45372	N	SER	L	81	175.749	67.150	12.350	1.00	91.24	LS12
ATOM	45373	CA	SER	L	81	174.874	67.909	13.225	1.00	91.24	LS12
ATOM	45374	CB	SER	L	81	175.561	69.213	13.644	1.00	85.61	LS12
ATOM	45375	OG	SER	L	81	176.796	68.970	14.293	1.00	85.61	LS12
ATOM	45376	C	SER	L	81	173.551	68.233	12.538	1.00	91.24	LS12
ATOM	45377	O	SER	L	81	173.524	68.683	11.390	1.00	91.24	LS12
ATOM	45378	N	VAL	L	82	172.453	67.989	13.242	1.00	68.53	LS12
ATOM	45379	CA	VAL	L	82	171.130	68.286	12.711	1.00	68.53	LS12
ATOM	45380	CB	VAL	L	82	170.065	67.383	13.315	1.00	43.97	LS12
ATOM	45381	CG1	VAL	L	82	168.697	67.798	12.824	1.00	43.97	LS12
ATOM	45382	CG2	VAL	L	82	170.354	65.951	12.933	1.00	43.97	LS12
ATOM	45383	C	VAL	L	82	170.827	69.720	13.087	1.00	68.53	LS12
ATOM	45384	O	VAL	L	82	170.948	70.106	14.249	1.00	68.53	LS12
ATOM	45385	N	VAL	L	83	170.416	70.505	12.104	1.00	70.27	LS12
ATOM	45386	CA	VAL	L	83	170.160	71.907	12.352	1.00	70.27	LS12
ATOM	45387	CB	VAL	L	83	171.370	72.741	11.817	1.00	65.92	LS12
ATOM	45388	CG1	VAL	L	83	171.457	72.641	10.302	1.00	65.92	LS12
ATOM	45389	CG2	VAL	L	83	171.268	74.172	12.258	1.00	65.92	LS12
ATOM	45390	C	VAL	L	83	168.854	72.380	11.720	1.00	70.27	LS12
ATOM	45391	O	VAL	L	83	168.140	71.603	11.077	1.00	70.27	LS12
ATOM	45392	N	LEU	L	84	168.543	73.655	11.941	1.00	55.09	LS12
ATOM	45393	CA	LEU	L	84	167.356	74.284	11.384	1.00	55.09	LS12
ATOM	45394	CB	LEU	L	84	166.343	74.580	12.487	1.00	55.81	LS12
ATOM	45395	CG	LEU	L	84	165.040	75.229	12.006	1.00	55.81	LS12
ATOM	45396	CD1	LEU	L	84	164.451	74.431	10.844	1.00	55.81	LS12
ATOM	45397	CD2	LEU	L	84	164.052	75.318	13.162	1.00	55.81	LS12
ATOM	45398	C	LEU	L	84	167.735	75.580	10.653	1.00	55.09	LS12
ATOM	45399	O	LEU	L	84	168.400	76.462	11.199	1.00	55.09	LS12
ATOM	45400	N	ILE	L	85	167.312	75.674	9.399	1.00	51.56	LS12
ATOM	45401	CA	ILE	L	85	167.581	76.837	8.566	1.00	51.56	LS12
ATOM	45402	CB	ILE	L	85	167.892	76.368	7.143	1.00	58.12	LS12
ATOM	45403	CG2	ILE	L	85	167.713	77.481	6.143	1.00	58.12	LS12
ATOM	45404	CG1	ILE	L	85	169.317	75.843	7.119	1.00	58.12	LS12
ATOM	45405	CD1	ILE	L	85	169.685	75.215	5.824	1.00	58.12	LS12
ATOM	45406	C	ILE	L	85	166.375	77.777	8.591	1.00	51.56	LS12
ATOM	45407	O	ILE	L	85	165.228	77.315	8.587	1.00	51.56	LS12
ATOM	45408	N	ARG	L	86	166.630	79.087	8.635	1.00	72.43	LS12
ATOM	45409	CA	ARG	L	86	165.541	80.064	8.690	1.00	72.43	LS12
ATOM	45410	CB	ARG	L	86	165.525	80.805	10.025	1.00	58.37	LS12
ATOM	45411	CG	ARG	L	86	166.580	81.876	10.136	1.00	58.37	LS12



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ATOM	45412	CD	ARG	L	86	166.251	82.802	11.281	1.00	58.37	LS12
ATOM	45413	NE	ARG	L	86	167.398	83.604	11.710	1.00	58.37	LS12
ATOM	45414	CZ	ARG	L	86	168.055	84.465	10.936	1.00	58.37	LS12
ATOM	45415	NH1	ARG	L	86	167.685	84.655	9.668	1.00	58.37	LS12
ATOM	45416	NH2	ARG	L	86	169.090	85.137	11.433	1.00	58.37	LS12
ATOM	45417	C	ARG	L	86	165.577	81.105	7.595	1.00	72.43	LS12
ATOM	45418	O	ARG	L	86	164.814	82.068	7.628	1.00	72.43	LS12
ATOM	45419	N	GLY	L	87	166.467	80.945	6.632	1.00	49.38	LS12
ATOM	45420	CA	GLY	L	87	166.491	81.928	5.569	1.00	49.38	LS12
ATOM	45421	C	GLY	L	87	166.919	83.306	6.028	1.00	49.38	LS12
ATOM	45422	O	GLY	L	87	166.622	83.734	7.144	1.00	49.38	LS12
ATOM	45423	N	GLY	L	88	167.611	83.999	5.132	1.00	52.73	LS12
ATOM	45424	CA	GLY	L	88	168.145	85.315	5.407	1.00	52.73	LS12
ATOM	45425	C	GLY	L	88	169.560	85.191	4.892	1.00	52.73	LS12
ATOM	45426	O	GLY	L	88	170.315	84.353	5.370	1.00	52.73	LS12
ATOM	45427	N	ARG	L	89	169.922	85.990	3.900	1.00	51.96	LS12
ATOM	45428	CA	ARG	L	89	171.259	85.921	3.330	1.00	51.96	LS12
ATOM	45429	CB	ARG	L	89	171.216	86.478	1.906	1.00	110.46	LS12
ATOM	45430	CG	ARG	L	89	170.150	85.790	1.056	1.00	110.46	LS12
ATOM	45431	CD	ARG	L	89	170.271	86.118	-0.433	1.00	110.46	LS12
ATOM	45432	NE	ARG	L	89	169.402	85.265	-1.251	1.00	110.46	LS12
ATOM	45433	CZ	ARG	L	89	169.412	85.230	-2.582	1.00	110.46	LS12
ATOM	45434	NH1	ARG	L	89	170.245	86.001	-3.271	1.00	110.46	LS12
ATOM	45435	NH2	ARG	L	89	168.585	84.419	-3.226	1.00	110.46	LS12
ATOM	45436	C	ARG	L	89	172.299	86.661	4.176	1.00	51.96	LS12
ATOM	45437	O	ARG	L	89	171.965	87.261	5.197	1.00	51.96	LS12
ATOM	45438	N	VAL	L	90	173.558	86.600	3.750	1.00	69.31	LS12
ATOM	45439	CA	VAL	L	90	174.654	87.264	4.450	1.00	69.31	LS12
ATOM	45440	CB	VAL	L	90	175.570	86.245	5.137	1.00	68.59	LS12
ATOM	45441	CG1	VAL	L	90	176.710	86.966	5.854	1.00	68.59	LS12
ATOM	45442	CG2	VAL	L	90	174.763	85.403	6.103	1.00	68.59	LS12
ATOM	45443	C	VAL	L	90	175.496	88.062	3.467	1.00	69.31	LS12
ATOM	45444	O	VAL	L	90	176.406	87.518	2.850	1.00	69.31	LS12
ATOM	45445	N	LYS	L	91	175.196	89.351	3.342	1.00	68.98	LS12
ATOM	45446	CA	LYS	L	91	175.884	90.271	2.427	1.00	68.98	LS12
ATOM	45447	CB	LYS	L	91	175.612	91.707	2.890	1.00	109.06	LS12
ATOM	45448	CG	LYS	L	91	176.148	92.802	1.988	1.00	109.06	LS12
ATOM	45449	CD	LYS	L	91	175.290	93.011	0.759	1.00	109.06	LS12
ATOM	45450	CE	LYS	L	91	175.780	94.226	-0.026	1.00	109.06	LS12
ATOM	45451	NZ	LYS	L	91	174.935	94.539	-1.219	1.00	109.06	LS12
ATOM	45452	C	LYS	L	91	177.400	90.087	2.161	1.00	68.98	LS12
ATOM	45453	O	LYS	L	91	177.888	90.506	1.116	1.00	68.98	LS12
ATOM	45454	N	ASP	L	92	178.147	89.474	3.076	1.00	61.10	LS12
ATOM	45455	CA	ASP	L	92	179.587	89.280	2.863	1.00	61.10	LS12
ATOM	45456	CB	ASP	L	92	180.353	89.406	4.166	1.00	67.73	LS12
ATOM	45457	CG	ASP	L	92	180.676	90.815	4.484	1.00	67.73	LS12
ATOM	45458	OD1	ASP	L	92	180.560	91.655	3.559	1.00	67.73	LS12
ATOM	45459	OD2	ASP	L	92	181.049	91.077	5.644	1.00	67.73	LS12
ATOM	45460	C	ASP	L	92	179.985	87.963	2.252	1.00	61.10	LS12
ATOM	45461	O	ASP	L	92	181.037	87.855	1.620	1.00	61.10	LS12
ATOM	45462	N	LEU	L	93	179.149	86.958	2.461	1.00	77.69	LS12
ATOM	45463	CA	LEU	L	93	179.432	85.628	1.963	1.00	77.69	LS12
ATOM	45464	CB	LEU	L	93	179.284	84.630	3.096	1.00	68.91	LS12
ATOM	45465	CG	LEU	L	93	179.984	85.051	4.382	1.00	68.91	LS12
ATOM	45466	CD1	LEU	L	93	179.910	83.878	5.339	1.00	68.91	LS12
ATOM	45467	CD2	LEU	L	93	181.443	85.464	4.116	1.00	68.91	LS12
ATOM	45468	C	LEU	L	93	178.552	85.206	0.809	1.00	77.69	LS12
ATOM	45469	O	LEU	L	93	177.440	84.712	1.001	1.00	77.69	LS12
ATOM	45470	N	PRO	L	94	179.038	85.394	-0.415	1.00	81.83	LS12
ATOM	45471	CD	PRO	L	94	180.310	85.976	-0.870	1.00	145.05	LS12
ATOM	45472	CA	PRO	L	94	178.205	84.987	-1.541	1.00	81.83	LS12
ATOM	45473	CB	PRO	L	94	179.097	85.273	-2.743	1.00	145.05	LS12
ATOM	45474	CG	PRO	L	94	179.963	86.411	-2.264	1.00	145.05	LS12
ATOM	45475	C	PRO	L	94	177.929	83.500	-1.370	1.00	81.83	LS12
ATOM	45476	O	PRO	L	94	178.825	82.753	-0.975	1.00	81.83	LS12
ATOM	45477	N	GLY	L	95	176.700	83.074	-1.642	1.00	75.14	LS12
ATOM	45478	CA	GLY	L	95	176.373	81.663	-1.514	1.00	75.14	LS12
ATOM	45479	C	GLY	L	95	175.614	81.304	-0.248	1.00	75.14	LS12
ATOM	45480	O	GLY	L	95	174.950	80.263	-0.162	1.00	75.14	LS12
ATOM	45481	N	VAL	L	96	175.713	82.164	0.753	1.00	74.22	LS12
ATOM	45482	CA	VAL	L	96	175.011	81.916	1.993	1.00	74.22	LS12
ATOM	45483	CB	VAL	L	96	175.810	82.467	3.181	1.00	81.31	LS12
ATOM	45484	CG1	VAL	L	96	175.319	81.846	4.478	1.00	81.31	LS12
ATOM	45485	CG2	VAL	L	96	177.274	82.178	2.984	1.00	81.31	LS12
ATOM	45486	C	VAL	L	96	173.672	82.642	1.875	1.00	74.22	LS12
ATOM	45487	O	VAL	L	96	173.631	83.874	1.846	1.00	74.22	LS12
ATOM	45488	N	ARG	L	97	172.582	81.882	1.788	1.00	67.32	LS12



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ATOM	45489	CA	ARG	L	97	171.264	82.491	1.665	1.00	67.32	LS12
ATOM	45490	CB	ARG	L	97	170.484	81.870	0.509	1.00	87.64	LS12
ATOM	45491	CG	ARG	L	97	171.042	82.204	-0.853	1.00	87.64	LS12
ATOM	45492	CD	ARG	L	97	170.042	81.885	-1.936	1.00	87.64	LS12
ATOM	45493	NE	ARG	L	97	170.595	82.137	-3.259	1.00	87.64	LS12
ATOM	45494	CZ	ARG	L	97	169.894	82.033	-4.381	1.00	87.64	LS12
ATOM	45495	NH1	ARG	L	97	168.616	81.685	-4.327	1.00	87.64	LS12
ATOM	45496	NH2	ARG	L	97	170.468	82.269	-5.554	1.00	87.64	LS12
ATOM	45497	C	ARG	L	97	170.419	82.395	2.911	1.00	67.32	LS12
ATOM	45498	O	ARG	L	97	169.411	83.088	3.034	1.00	67.32	LS12
ATOM	45499	N	TYR	L	98	170.823	81.540	3.839	1.00	60.39	LS12
ATOM	45500	CA	TYR	L	98	170.049	81.368	5.051	1.00	60.39	LS12
ATOM	45501	CB	TYR	L	98	169.262	80.064	4.973	1.00	69.10	LS12
ATOM	45502	CG	TYR	L	98	168.896	79.677	3.562	1.00	69.10	LS12
ATOM	45503	CD1	TYR	L	98	169.864	79.226	2.668	1.00	69.10	LS12
ATOM	45504	CE1	TYR	L	98	169.536	78.900	1.357	1.00	69.10	LS12
ATOM	45505	CD2	TYR	L	98	167.591	79.790	3.108	1.00	69.10	LS12
ATOM	45506	CE2	TYR	L	98	167.254	79.468	1.797	1.00	69.10	LS12
ATOM	45507	CZ	TYR	L	98	168.226	79.023	0.926	1.00	69.10	LS12
ATOM	45508	OH	TYR	L	98	167.876	78.695	-0.372	1.00	69.10	LS12
ATOM	45509	C	TYR	L	98	170.921	81.358	6.291	1.00	60.39	LS12
ATOM	45510	O	TYR	L	98	172.120	81.065	6.228	1.00	60.39	LS12
ATOM	45511	N	HIS	L	99	170.308	81.698	7.418	1.00	50.96	LS12
ATOM	45512	CA	HIS	L	99	171.002	81.695	8.687	1.00	50.96	LS12
ATOM	45513	CB	HIS	L	99	170.613	82.919	9.517	1.00	60.29	LS12
ATOM	45514	CG	HIS	L	99	171.345	84.173	9.143	1.00	60.29	LS12
ATOM	45515	CD2	HIS	L	99	172.102	85.017	9.887	1.00	60.29	LS12
ATOM	45516	ND1	HIS	L	99	171.299	84.718	7.878	1.00	60.29	LS12
ATOM	45517	CE1	HIS	L	99	171.994	85.844	7.858	1.00	60.29	LS12
ATOM	45518	NE2	HIS	L	99	172.491	86.049	9.065	1.00	60.29	LS12
ATOM	45519	C	HIS	L	99	170.565	80.421	9.404	1.00	50.96	LS12
ATOM	45520	O	HIS	L	99	169.436	79.955	9.226	1.00	50.96	LS12
ATOM	45521	N	ILE	L	100	171.466	79.846	10.193	1.00	56.17	LS12
ATOM	45522	CA	ILE	L	100	171.158	78.637	10.942	1.00	56.17	LS12
ATOM	45523	CB	ILE	L	100	172.427	77.795	11.188	1.00	66.55	LS12
ATOM	45524	CG2	ILE	L	100	172.294	76.985	12.461	1.00	66.55	LS12
ATOM	45525	CG1	ILE	L	100	172.667	76.874	9.997	1.00	66.55	LS12
ATOM	45526	CD1	ILE	L	100	173.899	76.030	10.127	1.00	66.55	LS12
ATOM	45527	C	ILE	L	100	170.553	79.039	12.272	1.00	56.17	LS12
ATOM	45528	O	ILE	L	100	171.063	79.920	12.954	1.00	56.17	LS12
ATOM	45529	N	VAL	L	101	169.457	78.398	12.643	1.00	60.16	LS12
ATOM	45530	CA	VAL	L	101	168.817	78.727	13.901	1.00	60.16	LS12
ATOM	45531	CB	VAL	L	101	167.389	78.179	13.971	1.00	49.45	LS12
ATOM	45532	CG1	VAL	L	101	166.902	78.191	15.416	1.00	49.45	LS12
ATOM	45533	CG2	VAL	L	101	166.473	79.012	13.105	1.00	49.45	LS12
ATOM	45534	C	VAL	L	101	169.564	78.170	15.095	1.00	60.16	LS12
ATOM	45535	O	VAL	L	101	169.623	76.949	15.286	1.00	60.16	LS12
ATOM	45536	N	ARG	L	102	170.120	79.062	15.907	1.00	65.06	LS12
ATOM	45537	CA	ARG	L	102	170.819	78.634	17.107	1.00	65.06	LS12
ATOM	45538	CB	ARG	L	102	171.766	79.734	17.587	1.00	62.25	LS12
ATOM	45539	CG	ARG	L	102	172.814	80.039	16.529	1.00	62.25	LS12
ATOM	45540	CD	ARG	L	102	174.198	80.278	17.098	1.00	62.25	LS12
ATOM	45541	NE	ARG	L	102	174.556	79.319	18.138	1.00	62.25	LS12
ATOM	45542	CZ	ARG	L	102	175.750	79.268	18.716	1.00	62.25	LS12
ATOM	45543	NH1	ARG	L	102	176.698	80.119	18.340	1.00	62.25	LS12
ATOM	45544	NH2	ARG	L	102	175.984	78.391	19.690	1.00	62.25	LS12
ATOM	45545	C	ARG	L	102	169.743	78.333	18.138	1.00	65.06	LS12
ATOM	45546	O	ARG	L	102	168.679	78.934	18.110	1.00	65.06	LS12
ATOM	45547	N	GLY	L	103	169.998	77.379	19.022	1.00	81.89	LS12
ATOM	45548	CA	GLY	L	103	169.004	77.050	20.025	1.00	81.89	LS12
ATOM	45549	C	GLY	L	103	168.042	75.953	19.597	1.00	81.89	LS12
ATOM	45550	O	GLY	L	103	167.228	75.484	20.404	1.00	81.89	LS12
ATOM	45551	N	VAL	L	104	168.123	75.541	18.334	1.00	65.01	LS12
ATOM	45552	CA	VAL	L	104	167.256	74.478	17.829	1.00	65.01	LS12
ATOM	45553	CB	VAL	L	104	166.339	74.999	16.700	1.00	58.17	LS12
ATOM	45554	CG1	VAL	L	104	165.613	73.838	16.026	1.00	58.17	LS12
ATOM	45555	CG2	VAL	L	104	165.327	75.967	17.280	1.00	58.17	LS12
ATOM	45556	C	VAL	L	104	168.080	73.302	17.313	1.00	65.01	LS12
ATOM	45557	O	VAL	L	104	168.981	73.486	16.490	1.00	65.01	LS12
ATOM	45558	N	TYR	L	105	167.760	72.103	17.803	1.00	82.91	LS12
ATOM	45559	CA	TYR	L	105	168.456	70.872	17.417	1.00	82.91	LS12
ATOM	45560	CB	TYR	L	105	168.446	70.706	15.897	1.00	62.97	LS12
ATOM	45561	CG	TYR	L	105	167.074	70.540	15.302	1.00	62.97	LS12
ATOM	45562	CD1	TYR	L	105	166.784	71.024	14.024	1.00	62.97	LS12
ATOM	45563	CE1	TYR	L	105	165.517	70.868	13.467	1.00	62.97	LS12
ATOM	45564	CD2	TYR	L	105	166.067	69.894	16.008	1.00	62.97	LS12
ATOM	45565	CE2	TYR	L	105	164.799	69.730	15.465	1.00	62.97	LS12



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ATOM	45566	CZ	TYR	L	105	164.526	70.218	14.198	1.00	62.97	LS12
ATOM	45567	OH	TYR	L	105	163.264	70.055	13.674	1.00	62.97	LS12
ATOM	45568	C	TYR	L	105	169.900	70.852	17.903	1.00	82.91	LS12
ATOM	45569	O	TYR	L	105	170.241	71.480	18.906	1.00	82.91	LS12
ATOM	45570	N	ASP	L	106	170.745	70.129	17.173	1.00	66.29	LS12
ATOM	45571	CA	ASP	L	106	172.162	70.012	17.504	1.00	66.29	LS12
ATOM	45572	CB	ASP	L	106	172.875	69.182	16.434	1.00	87.91	LS12
ATOM	45573	CG	ASP	L	106	172.275	67.803	16.272	1.00	87.91	LS12
ATOM	45574	OD1	ASP	L	106	172.795	67.031	15.433	1.00	87.91	LS12
ATOM	45575	OD2	ASP	L	106	171.290	67.494	16.985	1.00	87.91	LS12
ATOM	45576	C	ASP	L	106	172.854	71.376	17.628	1.00	66.29	LS12
ATOM	45577	O	ASP	L	106	173.996	71.481	18.100	1.00	66.29	LS12
ATOM	45578	N	ALA	L	107	172.166	72.422	17.192	1.00	83.07	LS12
ATOM	45579	CA	ALA	L	107	172.725	73.759	17.256	1.00	83.07	LS12
ATOM	45580	CB	ALA	L	107	172.068	74.651	16.214	1.00	163.12	LS12
ATOM	45581	C	ALA	L	107	172.521	74.339	18.643	1.00	83.07	LS12
ATOM	45582	O	ALA	L	107	171.417	74.738	19.009	1.00	83.07	LS12
ATOM	45583	N	ALA	L	108	173.589	74.369	19.425	1.00	52.13	LS12
ATOM	45584	CA	ALA	L	108	173.501	74.930	20.760	1.00	52.13	LS12
ATOM	45585	CB	ALA	L	108	174.721	74.536	21.573	1.00	87.00	LS12
ATOM	45586	C	ALA	L	108	173.427	76.446	20.617	1.00	52.13	LS12
ATOM	45587	O	ALA	L	108	173.932	77.008	19.640	1.00	52.13	LS12
ATOM	45588	N	GLY	L	109	172.789	77.097	21.587	1.00	63.33	LS12
ATOM	45589	CA	GLY	L	109	172.667	78.544	21.557	1.00	63.33	LS12
ATOM	45590	C	GLY	L	109	173.864	79.235	22.183	1.00	63.33	LS12
ATOM	45591	O	GLY	L	109	174.380	78.776	23.197	1.00	63.33	LS12
ATOM	45592	N	VAL	L	110	174.300	80.343	21.594	1.00	70.65	LS12
ATOM	45593	CA	VAL	L	110	175.457	81.067	22.108	1.00	70.65	LS12
ATOM	45594	CB	VAL	L	110	175.556	82.484	21.530	1.00	57.17	LS12
ATOM	45595	CG1	VAL	L	110	176.726	83.232	22.180	1.00	57.17	LS12
ATOM	45596	CG2	VAL	L	110	175.761	82.406	20.046	1.00	57.17	LS12
ATOM	45597	C	VAL	L	110	175.521	81.192	23.621	1.00	70.65	LS12
ATOM	45598	O	VAL	L	110	174.657	81.805	24.254	1.00	70.65	LS12
ATOM	45599	N	LYS	L	111	176.580	80.623	24.184	1.00	93.43	LS12
ATOM	45600	CA	LYS	L	111	176.801	80.654	25.620	1.00	93.43	LS12
ATOM	45601	CB	LYS	L	111	177.920	79.678	25.994	1.00	155.37	LS12
ATOM	45602	CG	LYS	L	111	177.785	78.295	25.363	1.00	155.37	LS12
ATOM	45603	CD	LYS	L	111	179.016	77.436	25.632	1.00	155.37	LS12
ATOM	45604	CE	LYS	L	111	178.940	76.107	24.892	1.00	155.37	LS12
ATOM	45605	NZ	LYS	L	111	180.181	75.296	25.056	1.00	155.37	LS12
ATOM	45606	C	LYS	L	111	177.197	82.061	26.044	1.00	93.43	LS12
ATOM	45607	O	LYS	L	111	177.841	82.789	25.283	1.00	93.43	LS12
ATOM	45608	N	ASP	L	112	176.796	82.436	27.255	1.00	95.48	LS12
ATOM	45609	CA	ASP	L	112	177.126	83.739	27.823	1.00	95.48	LS12
ATOM	45610	CB	ASP	L	112	178.630	84.003	27.675	1.00	109.47	LS12
ATOM	45611	CG	ASP	L	112	179.481	82.968	28.397	1.00	109.47	LS12
ATOM	45612	OD1	ASP	L	112	180.721	83.006	28.247	1.00	109.47	LS12
ATOM	45613	OD2	ASP	L	112	178.913	82.119	29.117	1.00	109.47	LS12
ATOM	45614	C	ASP	L	112	176.340	84.919	27.253	1.00	95.48	LS12
ATOM	45615	O	ASP	L	112	176.494	86.052	27.712	1.00	95.48	LS12
ATOM	45616	N	ARG	L	113	175.502	84.661	26.254	1.00	104.94	LS12
ATOM	45617	CA	ARG	L	113	174.704	85.725	25.654	1.00	104.94	LS12
ATOM	45618	CB	ARG	L	113	173.720	85.149	24.640	1.00	82.48	LS12
ATOM	45619	CG	ARG	L	113	173.993	85.587	23.219	1.00	82.48	LS12
ATOM	45620	CD	ARG	L	113	173.916	87.098	23.075	1.00	82.48	LS12
ATOM	45621	NE	ARG	L	113	174.431	87.527	21.780	1.00	82.48	LS12
ATOM	45622	CZ	ARG	L	113	174.329	88.764	21.318	1.00	82.48	LS12
ATOM	45623	NH1	ARG	L	113	173.726	89.685	22.050	1.00	82.48	LS12
ATOM	45624	NH2	ARG	L	113	174.827	89.075	20.132	1.00	82.48	LS12
ATOM	45625	C	ARG	L	113	173.936	86.405	26.759	1.00	104.94	LS12
ATOM	45626	O	ARG	L	113	173.517	85.754	27.709	1.00	104.94	LS12
ATOM	45627	N	LYS	L	114	173.744	87.710	26.658	1.00	72.78	LS12
ATOM	45628	CA	LYS	L	114	173.009	88.378	27.710	1.00	72.78	LS12
ATOM	45629	CB	LYS	L	114	173.983	89.031	28.690	1.00	119.04	LS12
ATOM	45630	CG	LYS	L	114	174.864	88.007	29.391	1.00	119.04	LS12
ATOM	45631	CD	LYS	L	114	175.955	88.645	30.225	1.00	119.04	LS12
ATOM	45632	CE	LYS	L	114	175.433	89.160	31.550	1.00	119.04	LS12
ATOM	45633	NZ	LYS	L	114	176.482	89.937	32.282	1.00	119.04	LS12
ATOM	45634	C	LYS	L	114	172.027	89.390	27.186	1.00	72.78	LS12
ATOM	45635	O	LYS	L	114	171.179	89.873	27.931	1.00	72.78	LS12
ATOM	45636	N	LYS	L	115	172.116	89.697	25.897	1.00	108.74	LS12
ATOM	45637	CA	LYS	L	115	171.217	90.685	25.324	1.00	108.74	LS12
ATOM	45638	CB	LYS	L	115	172.021	91.844	24.738	1.00	82.03	LS12
ATOM	45639	CG	LYS	L	115	173.000	92.424	25.748	1.00	82.03	LS12
ATOM	45640	CD	LYS	L	115	173.167	93.928	25.630	1.00	82.03	LS12
ATOM	45641	CE	LYS	L	115	174.062	94.452	26.753	1.00	82.03	LS12
ATOM	45642	NZ	LYS	L	115	174.010	95.935	26.874	1.00	82.03	LS12



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ATOM	45643	C	LYS	L	115	170.240	90.161	24.293	1.00108.74	LS12
ATOM	45644	O	LYS	L	115	169.159	89.701	24.646	1.00108.74	LS12
ATOM	45645	N	SER	L	116	170.606	90.228	23.021	1.00 43.05	LS12
ATOM	45646	CA	SER	L	116	169.697	89.769	21.973	1.00 43.05	LS12
ATOM	45647	CB	SER	L	116	170.297	90.085	20.604	1.00 78.09	LS12
ATOM	45648	OG	SER	L	116	170.460	91.486	20.440	1.00 78.09	LS12
ATOM	45649	C	SER	L	116	169.350	88.275	22.084	1.00 43.05	LS12
ATOM	45650	O	SER	L	116	169.037	87.615	21.093	1.00 43.05	LS12
ATOM	45651	N	ARG	L	117	169.382	87.772	23.314	1.00 55.94	LS12
ATOM	45652	CA	ARG	L	117	169.102	86.377	23.637	1.00 55.94	LS12
ATOM	45653	CB	ARG	L	117	168.796	86.228	25.127	1.00 78.36	LS12
ATOM	45654	CG	ARG	L	117	169.960	86.407	26.081	1.00 78.36	LS12
ATOM	45655	CD	ARG	L	117	169.801	85.388	27.198	1.00 78.36	LS12
ATOM	45656	NE	ARG	L	117	168.416	85.322	27.652	1.00 78.36	LS12
ATOM	45657	CZ	ARG	L	117	167.838	86.265	28.388	1.00 78.36	LS12
ATOM	45658	NH1	ARG	L	117	168.535	87.340	28.759	1.00 78.36	LS12
ATOM	45659	NH2	ARG	L	117	166.564	86.143	28.736	1.00 78.36	LS12
ATOM	45660	C	ARG	L	117	167.977	85.697	22.871	1.00 55.94	LS12
ATOM	45661	O	ARG	L	117	168.053	84.496	22.633	1.00 55.94	LS12
ATOM	45662	N	SER	L	118	166.923	86.434	22.523	1.00 63.33	LS12
ATOM	45663	CA	SER	L	118	165.802	85.839	21.791	1.00 63.33	LS12
ATOM	45664	CB	SER	L	118	164.797	86.912	21.370	1.00118.21	LS12
ATOM	45665	OG	SER	L	118	163.740	86.359	20.615	1.00118.21	LS12
ATOM	45666	C	SER	L	118	166.403	85.177	20.565	1.00 63.33	LS12
ATOM	45667	O	SER	L	118	166.105	84.034	20.236	1.00 63.33	LS12
ATOM	45668	N	LYS	L	119	167.259	85.918	19.886	1.00 59.37	LS12
ATOM	45669	CA	LYS	L	119	167.941	85.394	18.727	1.00 59.37	LS12
ATOM	45670	CB	LYS	L	119	168.372	86.569	17.857	1.00 50.71	LS12
ATOM	45671	CG	LYS	L	119	167.232	87.585	17.650	1.00 50.71	LS12
ATOM	45672	CD	LYS	L	119	167.729	88.854	16.974	1.00 50.71	LS12
ATOM	45673	CE	LYS	L	119	166.682	89.965	16.963	1.00 50.71	LS12
ATOM	45674	NZ	LYS	L	119	167.222	91.193	16.303	1.00 50.71	LS12
ATOM	45675	C	LYS	L	119	169.112	84.691	19.410	1.00 59.37	LS12
ATOM	45676	O	LYS	L	119	169.243	84.811	20.624	1.00 59.37	LS12
ATOM	45677	N	TYR	L	120	169.955	83.958	18.688	1.00 89.59	LS12
ATOM	45678	CA	TYR	L	120	171.070	83.248	19.349	1.00 89.59	LS12
ATOM	45679	CB	TYR	L	120	171.987	84.227	20.088	1.00 57.30	LS12
ATOM	45680	CG	TYR	L	120	172.402	85.360	19.216	1.00 57.30	LS12
ATOM	45681	CD1	TYR	L	120	172.043	86.667	19.520	1.00 57.30	LS12
ATOM	45682	CE1	TYR	L	120	172.328	87.705	18.648	1.00 57.30	LS12
ATOM	45683	CD2	TYR	L	120	173.067	85.116	18.026	1.00 57.30	LS12
ATOM	45684	CE2	TYR	L	120	173.360	86.136	17.144	1.00 57.30	LS12
ATOM	45685	CZ	TYR	L	120	172.987	87.430	17.451	1.00 57.30	LS12
ATOM	45686	OH	TYR	L	120	173.240	88.428	16.529	1.00 57.30	LS12
ATOM	45687	C	TYR	L	120	170.570	82.210	20.353	1.00 89.59	LS12
ATOM	45688	O	TYR	L	120	171.353	81.651	21.110	1.00 89.59	LS12
ATOM	45689	N	GLY	L	121	169.260	81.977	20.353	1.00 72.26	LS12
ATOM	45690	CA	GLY	L	121	168.636	81.010	21.241	1.00 72.26	LS12
ATOM	45691	C	GLY	L	121	169.336	80.659	22.539	1.00 72.26	LS12
ATOM	45692	O	GLY	L	121	169.922	79.589	22.649	1.00 72.26	LS12
ATOM	45693	N	THR	L	122	169.263	81.540	23.531	1.00 65.02	LS12
ATOM	45694	CA	THR	L	122	169.890	81.288	24.825	1.00 65.02	LS12
ATOM	45695	CB	THR	L	122	171.168	82.130	24.989	1.00 70.73	LS12
ATOM	45696	OG1	THR	L	122	170.814	83.484	25.273	1.00 70.73	LS12
ATOM	45697	CG2	THR	L	122	171.979	82.116	23.714	1.00 70.73	LS12
ATOM	45698	C	THR	L	122	168.914	81.625	25.963	1.00 65.02	LS12
ATOM	45699	O	THR	L	122	168.465	82.775	26.102	1.00 65.02	LS12
ATOM	45700	N	LYS	L	123	168.588	80.620	26.775	1.00 81.50	LS12
ATOM	45701	CA	LYS	L	123	167.654	80.790	27.893	1.00 81.50	LS12
ATOM	45702	CB	LYS	L	123	167.635	79.547	28.775	1.00 63.66	LS12
ATOM	45703	CG	LYS	L	123	167.445	78.240	28.041	1.00 63.66	LS12
ATOM	45704	CD	LYS	L	123	166.012	78.004	27.629	1.00 63.66	LS12
ATOM	45705	CE	LYS	L	123	165.898	76.645	26.966	1.00 63.66	LS12
ATOM	45706	NZ	LYS	L	123	164.507	76.327	26.567	1.00 63.66	LS12
ATOM	45707	C	LYS	L	123	168.032	81.971	28.766	1.00 81.50	LS12
ATOM	45708	O	LYS	L	123	169.192	82.386	28.797	1.00 81.50	LS12
ATOM	45709	N	LYS	L	124	167.054	82.503	29.491	1.00 82.72	LS12
ATOM	45710	CA	LYS	L	124	167.333	83.628	30.363	1.00 82.72	LS12
ATOM	45711	CB	LYS	L	124	166.041	84.224	30.914	1.00126.59	LS12
ATOM	45712	CG	LYS	L	124	166.273	85.538	31.630	1.00126.59	LS12
ATOM	45713	CD	LYS	L	124	164.983	86.282	31.883	1.00126.59	LS12
ATOM	45714	CE	LYS	L	124	165.274	87.634	32.503	1.00126.59	LS12
ATOM	45715	NZ	LYS	L	124	164.037	88.394	32.814	1.00126.59	LS12
ATOM	45716	C	LYS	L	124	168.223	83.158	31.503	1.00 82.72	LS12
ATOM	45717	O	LYS	L	124	167.936	82.156	32.159	1.00 82.72	LS12
ATOM	45718	N	PRO	L	125	169.318	83.883	31.756	1.00 78.54	LS12
ATOM	45719	CD	PRO	L	125	169.659	85.176	31.138	1.00101.17	LS12



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ATOM	45720	CA	PRO	L	125	170.273	83.552	32.816	1.00	78.54	LS12
ATOM	45721	CB	PRO	L	125	171.424	84.509	32.543	1.00	101.17	LS12
ATOM	45722	CG	PRO	L	125	170.699	85.734	32.097	1.00	101.17	LS12
ATOM	45723	C	PRO	L	125	169.715	83.716	34.220	1.00	78.54	LS12
ATOM	45724	O	PRO	L	125	169.308	84.805	34.622	1.00	78.54	LS12
ATOM	45725	N	LYS	L	126	169.697	82.614	34.955	1.00	143.70	LS12
ATOM	45726	CA	LYS	L	126	169.223	82.594	36.331	1.00	143.70	LS12
ATOM	45727	CB	LYS	L	126	169.314	81.167	36.875	1.00	164.31	LS12
ATOM	45728	CG	LYS	L	126	170.044	80.196	35.936	1.00	164.31	LS12
ATOM	45729	CD	LYS	L	126	171.465	80.664	35.603	1.00	164.31	LS12
ATOM	45730	CE	LYS	L	126	172.037	79.905	34.414	1.00	164.31	LS12
ATOM	45731	NZ	LYS	L	126	173.346	80.462	33.977	1.00	164.31	LS12
ATOM	45732	C	LYS	L	126	170.107	83.522	37.159	1.00	143.70	LS12
ATOM	45733	O	LYS	L	126	171.158	83.113	37.652	1.00	143.70	LS12
ATOM	45734	N	GLU	L	127	169.687	84.773	37.305	1.00	116.43	LS12
ATOM	45735	CA	GLU	L	127	170.472	85.732	38.065	1.00	116.43	LS12
ATOM	45736	CB	GLU	L	127	170.032	87.158	37.740	1.00	198.94	LS12
ATOM	45737	CG	GLU	L	127	168.611	87.478	38.152	1.00	198.94	LS12
ATOM	45738	CD	GLU	L	127	168.258	88.929	37.905	1.00	198.94	LS12
ATOM	45739	OE1	GLU	L	127	168.966	89.810	38.437	1.00	198.94	LS12
ATOM	45740	OE2	GLU	L	127	167.275	89.190	37.181	1.00	198.94	LS12
ATOM	45741	C	GLU	L	127	170.344	85.485	39.561	1.00	116.43	LS12
ATOM	45742	O	GLU	L	127	169.247	85.230	40.070	1.00	116.43	LS12
ATOM	45743	N	ALA	L	128	171.481	85.560	40.251	1.00	198.94	LS12
ATOM	45744	CA	ALA	L	128	171.546	85.356	41.695	1.00	198.94	LS12
ATOM	45745	CB	ALA	L	128	172.355	84.101	42.013	1.00	104.61	LS12
ATOM	45746	C	ALA	L	128	172.184	86.566	42.369	1.00	198.94	LS12
ATOM	45747	O	ALA	L	128	172.673	87.454	41.640	1.00	198.94	LS12
ATOM	45748	OXT	ALA	L	128	172.196	86.604	43.617	1.00	133.58	LS12
TER	45748		ALA	L	128						LS12
ATOM	45749	CB	ALA	M	2	280.227	116.796	-8.222	1.00	128.53	MS13
ATOM	45750	C	ALA	M	2	278.518	114.989	-7.990	1.00	77.92	MS13
ATOM	45751	O	ALA	M	2	277.515	115.324	-7.367	1.00	77.92	MS13
ATOM	45752	N	ALA	M	2	278.177	116.860	-9.589	1.00	77.92	MS13
ATOM	45753	CA	ALA	M	2	279.186	115.962	-8.958	1.00	77.92	MS13
ATOM	45754	N	ARG	M	3	279.065	113.782	-7.867	1.00	78.44	MS13
ATOM	45755	CA	ARG	M	3	278.489	112.805	-6.951	1.00	78.44	MS13
ATOM	45756	CB	ARG	M	3	279.127	111.427	-7.141	1.00	198.54	MS13
ATOM	45757	CG	ARG	M	3	278.928	110.843	-8.521	1.00	198.54	MS13
ATOM	45758	CD	ARG	M	3	279.411	109.410	-8.604	1.00	198.54	MS13
ATOM	45759	NE	ARG	M	3	279.378	108.922	-9.979	1.00	198.54	MS13
ATOM	45760	CZ	ARG	M	3	279.823	107.731	-10.360	1.00	198.54	MS13
ATOM	45761	NH1	ARG	M	3	280.335	106.897	-9.465	1.00	198.54	MS13
ATOM	45762	NH2	ARG	M	3	279.768	107.379	-11.637	1.00	198.54	MS13
ATOM	45763	C	ARG	M	3	278.741	113.281	-5.537	1.00	78.44	MS13
ATOM	45764	O	ARG	M	3	279.734	113.952	-5.285	1.00	78.44	MS13
ATOM	45765	N	ILE	M	4	277.842	112.950	-4.618	1.00	144.79	MS13
ATOM	45766	CA	ILE	M	4	278.018	113.358	-3.233	1.00	144.79	MS13
ATOM	45767	CB	ILE	M	4	277.197	114.616	-2.906	1.00	73.95	MS13
ATOM	45768	CG2	ILE	M	4	277.016	114.753	-1.400	1.00	73.95	MS13
ATOM	45769	CG1	ILE	M	4	277.921	115.847	-3.455	1.00	73.95	MS13
ATOM	45770	CD1	ILE	M	4	277.337	117.175	-3.003	1.00	73.95	MS13
ATOM	45771	C	ILE	M	4	277.677	112.265	-2.235	1.00	144.79	MS13
ATOM	45772	O	ILE	M	4	278.573	111.616	-1.696	1.00	144.79	MS13
ATOM	45773	N	ALA	M	5	276.390	112.060	-1.981	1.00	60.11	MS13
ATOM	45774	CA	ALA	M	5	275.983	111.033	-1.030	1.00	60.11	MS13
ATOM	45775	CB	ALA	M	5	274.623	111.378	-0.434	1.00	105.16	MS13
ATOM	45776	C	ALA	M	5	275.932	109.673	-1.712	1.00	60.11	MS13
ATOM	45777	O	ALA	M	5	276.120	109.575	-2.927	1.00	60.11	MS13
ATOM	45778	N	GLY	M	6	275.682	108.629	-0.924	1.00	173.36	MS13
ATOM	45779	CA	GLY	M	6	275.604	107.282	-1.463	1.00	173.36	MS13
ATOM	45780	C	GLY	M	6	275.056	107.257	-2.877	1.00	173.36	MS13
ATOM	45781	O	GLY	M	6	273.846	107.341	-3.082	1.00	173.36	MS13
ATOM	45782	N	VAL	M	7	275.961	107.149	-3.847	1.00	127.37	MS13
ATOM	45783	CA	VAL	M	7	275.629	107.117	-5.270	1.00	127.37	MS13
ATOM	45784	CB	VAL	M	7	274.997	105.750	-5.682	1.00	176.44	MS13
ATOM	45785	CG1	VAL	M	7	275.908	104.610	-5.240	1.00	176.44	MS13
ATOM	45786	CG2	VAL	M	7	273.602	105.588	-5.089	1.00	176.44	MS13
ATOM	45787	C	VAL	M	7	274.718	108.266	-5.702	1.00	127.37	MS13
ATOM	45788	O	VAL	M	7	273.866	108.111	-6.577	1.00	127.37	MS13
ATOM	45789	N	GLU	M	8	274.913	109.423	-5.080	1.00	82.31	MS13
ATOM	45790	CA	GLU	M	8	274.141	110.615	-5.401	1.00	82.31	MS13
ATOM	45791	CB	GLU	M	8	273.907	111.451	-4.144	1.00	198.94	MS13
ATOM	45792	CG	GLU	M	8	272.956	110.803	-3.160	1.00	198.94	MS13
ATOM	45793	CD	GLU	M	8	271.559	110.646	-3.726	1.00	198.94	MS13
ATOM	45794	OE1	GLU	M	8	270.907	111.680	-3.986	1.00	198.94	MS13
ATOM	45795	OE2	GLU	M	8	271.113	109.493	-3.917	1.00	198.94	MS13



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ATOM	45796	C	GLU	M	8	274.923	111.429	-6.422	1.00	82.31	MS13
ATOM	45797	O	GLU	M	8	276.136	111.587	-6.288	1.00	82.31	MS13
ATOM	45798	N	ILE	M	9	274.230	111.944	-7.435	1.00	118.56	MS13
ATOM	45799	CA	ILE	M	9	274.878	112.720	-8.489	1.00	118.56	MS13
ATOM	45800	CB	ILE	M	9	275.349	111.813	-9.650	1.00	76.40	MS13
ATOM	45801	CG2	ILE	M	9	276.691	112.293	-10.172	1.00	76.40	MS13
ATOM	45802	CG1	ILE	M	9	275.433	110.356	-9.194	1.00	76.40	MS13
ATOM	45803	CD1	ILE	M	9	274.080	109.662	-9.064	1.00	76.40	MS13
ATOM	45804	C	ILE	M	9	273.949	113.763	-9.104	1.00	118.56	MS13
ATOM	45805	O	ILE	M	9	273.555	113.640	-10.260	1.00	118.56	MS13
ATOM	45806	N	PRO	M	10	273.585	114.806	-8.351	1.00	102.14	MS13
ATOM	45807	CD	PRO	M	10	273.942	115.161	-6.964	1.00	128.45	MS13
ATOM	45808	CA	PRO	M	10	272.693	115.807	-8.945	1.00	102.14	MS13
ATOM	45809	CB	PRO	M	10	272.237	116.605	-7.733	1.00	128.45	MS13
ATOM	45810	CG	PRO	M	10	273.479	116.602	-6.864	1.00	128.45	MS13
ATOM	45811	C	PRO	M	10	273.485	116.662	-9.919	1.00	102.14	MS13
ATOM	45812	O	PRO	M	10	274.597	117.074	-9.587	1.00	102.14	MS13
ATOM	45813	N	ARG	M	11	272.956	116.931	-11.111	1.00	81.36	MS13
ATOM	45814	CA	ARG	M	11	273.729	117.770	-12.025	1.00	81.36	MS13
ATOM	45815	CB	ARG	M	11	274.549	116.932	-13.014	1.00	169.34	MS13
ATOM	45816	CG	ARG	M	11	275.495	117.812	-13.829	1.00	169.34	MS13
ATOM	45817	CD	ARG	M	11	276.240	117.117	-14.940	1.00	169.34	MS13
ATOM	45818	NE	ARG	M	11	276.718	118.107	-15.906	1.00	169.34	MS13
ATOM	45819	CZ	ARG	M	11	277.652	117.884	-16.828	1.00	169.34	MS13
ATOM	45820	NH1	ARG	M	11	278.230	116.693	-16.918	1.00	169.34	MS13
ATOM	45821	NH2	ARG	M	11	278.005	118.853	-17.666	1.00	169.34	MS13
ATOM	45822	C	ARG	M	11	272.959	118.813	-12.812	1.00	81.36	MS13
ATOM	45823	O	ARG	M	11	271.735	118.894	-12.727	1.00	81.36	MS13
ATOM	45824	N	ASN	M	12	273.726	119.622	-13.546	1.00	55.92	MS13
ATOM	45825	CA	ASN	M	12	273.255	120.694	-14.426	1.00	55.92	MS13
ATOM	45826	CB	ASN	M	12	272.877	120.092	-15.774	1.00	87.25	MS13
ATOM	45827	CG	ASN	M	12	272.990	121.086	-16.891	1.00	87.25	MS13
ATOM	45828	OD1	ASN	M	12	272.116	121.932	-17.081	1.00	87.25	MS13
ATOM	45829	ND2	ASN	M	12	274.089	121.011	-17.631	1.00	87.25	MS13
ATOM	45830	C	ASN	M	12	272.142	121.656	-13.961	1.00	55.92	MS13
ATOM	45831	O	ASN	M	12	271.573	122.410	-14.760	1.00	55.92	MS13
ATOM	45832	N	LYS	M	13	271.847	121.645	-12.669	1.00	82.52	MS13
ATOM	45833	CA	LYS	M	13	270.831	122.525	-12.113	1.00	82.52	MS13
ATOM	45834	CB	LYS	M	13	269.656	121.704	-11.582	1.00	101.55	MS13
ATOM	45835	CG	LYS	M	13	268.411	121.716	-12.458	1.00	101.55	MS13
ATOM	45836	CD	LYS	M	13	267.399	120.663	-12.009	1.00	101.55	MS13
ATOM	45837	CE	LYS	M	13	266.024	120.926	-12.604	1.00	101.55	MS13
ATOM	45838	NZ	LYS	M	13	266.077	121.129	-14.075	1.00	101.55	MS13
ATOM	45839	C	LYS	M	13	271.486	123.248	-10.958	1.00	82.52	MS13
ATOM	45840	O	LYS	M	13	272.497	122.783	-10.435	1.00	82.52	MS13
ATOM	45841	N	ARG	M	14	270.932	124.388	-10.564	1.00	54.91	MS13
ATOM	45842	CA	ARG	M	14	271.470	125.118	-9.418	1.00	54.91	MS13
ATOM	45843	CB	ARG	M	14	270.431	126.111	-8.913	1.00	68.23	MS13
ATOM	45844	CG	ARG	M	14	270.335	127.384	-9.695	1.00	68.23	MS13
ATOM	45845	CD	ARG	M	14	269.054	128.089	-9.316	1.00	68.23	MS13
ATOM	45846	NE	ARG	M	14	269.222	129.517	-9.045	1.00	68.23	MS13
ATOM	45847	CZ	ARG	M	14	269.508	130.032	-7.850	1.00	68.23	MS13
ATOM	45848	NH1	ARG	M	14	269.666	129.234	-6.799	1.00	68.23	MS13
ATOM	45849	NH2	ARG	M	14	269.611	131.353	-7.704	1.00	68.23	MS13
ATOM	45850	C	ARG	M	14	271.810	124.129	-8.282	1.00	54.91	MS13
ATOM	45851	O	ARG	M	14	271.073	123.177	-8.043	1.00	54.91	MS13
ATOM	45852	N	VAL	M	15	272.915	124.353	-7.580	1.00	77.54	MS13
ATOM	45853	CA	VAL	M	15	273.312	123.464	-6.491	1.00	77.54	MS13
ATOM	45854	CB	VAL	M	15	274.721	123.814	-5.987	1.00	58.37	MS13
ATOM	45855	CG1	VAL	M	15	275.088	122.941	-4.804	1.00	58.37	MS13
ATOM	45856	CG2	VAL	M	15	275.715	123.619	-7.106	1.00	58.37	MS13
ATOM	45857	C	VAL	M	15	272.345	123.487	-5.303	1.00	77.54	MS13
ATOM	45858	O	VAL	M	15	272.160	122.470	-4.627	1.00	77.54	MS13
ATOM	45859	N	ASP	M	16	271.737	124.646	-5.054	1.00	92.72	MS13
ATOM	45860	CA	ASP	M	16	270.788	124.807	-3.951	1.00	92.72	MS13
ATOM	45861	CB	ASP	M	16	270.415	126.282	-3.789	1.00	97.29	MS13
ATOM	45862	CG	ASP	M	16	269.850	126.887	-5.067	1.00	97.29	MS13
ATOM	45863	OD1	ASP	M	16	270.463	126.688	-6.136	1.00	97.29	MS13
ATOM	45864	OD2	ASP	M	16	268.801	127.569	-5.004	1.00	97.29	MS13
ATOM	45865	C	ASP	M	16	269.536	123.990	-4.224	1.00	92.72	MS13
ATOM	45866	O	ASP	M	16	268.758	123.688	-3.317	1.00	92.72	MS13
ATOM	45867	N	VAL	M	17	269.357	123.650	-5.496	1.00	79.60	MS13
ATOM	45868	CA	VAL	M	17	268.229	122.861	-5.972	1.00	79.60	MS13
ATOM	45869	CB	VAL	M	17	267.801	123.307	-7.369	1.00	50.11	MS13
ATOM	45870	CG1	VAL	M	17	267.083	122.180	-8.056	1.00	50.11	MS13
ATOM	45871	CG2	VAL	M	17	266.909	124.538	-7.284	1.00	50.11	MS13
ATOM	45872	C	VAL	M	17	268.671	121.420	-6.094	1.00	79.60	MS13



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ATOM	45873	O	VAL	M	17	267.970	120.491	-5.690	1.00	79.60	MS13
ATOM	45874	N	ALA	M	18	269.841	121.258	-6.694	1.00	78.99	MS13
ATOM	45875	CA	ALA	M	18	270.433	119.959	-6.912	1.00	78.99	MS13
ATOM	45876	CB	ALA	M	18	271.856	120.124	-7.383	1.00	61.30	MS13
ATOM	45877	C	ALA	M	18	270.403	119.121	-5.650	1.00	78.99	MS13
ATOM	45878	O	ALA	M	18	269.685	118.131	-5.576	1.00	78.99	MS13
ATOM	45879	N	LEU	M	19	271.177	119.526	-4.653	1.00	68.33	MS13
ATOM	45880	CA	LEU	M	19	271.252	118.779	-3.404	1.00	68.33	MS13
ATOM	45881	CB	LEU	M	19	271.818	119.677	-2.309	1.00	59.66	MS13
ATOM	45882	CG	LEU	M	19	273.312	119.923	-2.541	1.00	59.66	MS13
ATOM	45883	CD1	LEU	M	19	273.683	121.338	-2.139	1.00	59.66	MS13
ATOM	45884	CD2	LEU	M	19	274.119	118.884	-1.777	1.00	59.66	MS13
ATOM	45885	C	LEU	M	19	269.924	118.172	-2.980	1.00	68.33	MS13
ATOM	45886	O	LEU	M	19	269.889	117.069	-2.427	1.00	68.33	MS13
ATOM	45887	N	THR	M	20	268.838	118.887	-3.261	1.00	91.34	MS13
ATOM	45888	CA	THR	M	20	267.494	118.427	-2.930	1.00	91.34	MS13
ATOM	45889	CB	THR	M	20	266.428	119.301	-3.605	1.00	127.83	MS13
ATOM	45890	OG1	THR	M	20	266.664	120.675	-3.287	1.00	127.83	MS13
ATOM	45891	CG2	THR	M	20	265.045	118.914	-3.128	1.00	127.83	MS13
ATOM	45892	C	THR	M	20	267.289	116.998	-3.421	1.00	91.34	MS13
ATOM	45893	O	THR	M	20	266.591	116.197	-2.779	1.00	91.34	MS13
ATOM	45894	N	TYR	M	21	267.905	116.696	-4.564	1.00	65.88	MS13
ATOM	45895	CA	TYR	M	21	267.804	115.382	-5.188	1.00	65.88	MS13
ATOM	45896	CB	TYR	M	21	268.393	115.408	-6.598	1.00	91.25	MS13
ATOM	45897	CG	TYR	M	21	267.482	116.059	-7.609	1.00	91.25	MS13
ATOM	45898	CD1	TYR	M	21	267.791	117.303	-8.154	1.00	91.25	MS13
ATOM	45899	CE1	TYR	M	21	266.945	117.913	-9.074	1.00	91.25	MS13
ATOM	45900	CD2	TYR	M	21	266.298	115.438	-8.007	1.00	91.25	MS13
ATOM	45901	CE2	TYR	M	21	265.443	116.039	-8.923	1.00	91.25	MS13
ATOM	45902	CZ	TYR	M	21	265.772	117.275	-9.455	1.00	91.25	MS13
ATOM	45903	OH	TYR	M	21	264.941	117.870	-10.379	1.00	91.25	MS13
ATOM	45904	C	TYR	M	21	268.433	114.253	-4.398	1.00	65.88	MS13
ATOM	45905	O	TYR	M	21	268.549	113.134	-4.892	1.00	65.88	MS13
ATOM	45906	N	ILE	M	22	268.828	114.541	-3.164	1.00	87.76	MS13
ATOM	45907	CA	ILE	M	22	269.415	113.524	-2.303	1.00	87.76	MS13
ATOM	45908	CB	ILE	M	22	270.650	114.092	-1.588	1.00	85.86	MS13
ATOM	45909	CG2	ILE	M	22	271.313	113.013	-0.743	1.00	85.86	MS13
ATOM	45910	CG1	ILE	M	22	271.612	114.644	-2.651	1.00	85.86	MS13
ATOM	45911	CD1	ILE	M	22	272.842	115.308	-2.118	1.00	85.86	MS13
ATOM	45912	C	ILE	M	22	268.324	113.084	-1.323	1.00	87.76	MS13
ATOM	45913	O	ILE	M	22	267.375	113.834	-1.067	1.00	87.76	MS13
ATOM	45914	N	TYR	M	23	268.440	111.876	-0.783	1.00	87.94	MS13
ATOM	45915	CA	TYR	M	23	267.401	111.382	0.105	1.00	87.94	MS13
ATOM	45916	CB	TYR	M	23	267.665	109.940	0.535	1.00	97.44	MS13
ATOM	45917	CG	TYR	M	23	266.413	109.284	1.075	1.00	97.44	MS13
ATOM	45918	CD1	TYR	M	23	265.250	109.229	0.304	1.00	97.44	MS13
ATOM	45919	CE1	TYR	M	23	264.067	108.678	0.809	1.00	97.44	MS13
ATOM	45920	CD2	TYR	M	23	266.368	108.765	2.368	1.00	97.44	MS13
ATOM	45921	CE2	TYR	M	23	265.189	108.211	2.885	1.00	97.44	MS13
ATOM	45922	CZ	TYR	M	23	264.043	108.172	2.101	1.00	97.44	MS13
ATOM	45923	OH	TYR	M	23	262.875	107.636	2.604	1.00	97.44	MS13
ATOM	45924	C	TYR	M	23	267.126	112.218	1.338	1.00	87.94	MS13
ATOM	45925	O	TYR	M	23	266.014	112.695	1.518	1.00	87.94	MS13
ATOM	45926	N	GLY	M	24	268.117	112.400	2.197	1.00	103.33	MS13
ATOM	45927	CA	GLY	M	24	267.864	113.186	3.392	1.00	103.33	MS13
ATOM	45928	C	GLY	M	24	268.008	114.695	3.237	1.00	103.33	MS13
ATOM	45929	O	GLY	M	24	268.112	115.418	4.231	1.00	103.33	MS13
ATOM	45930	N	ILE	M	25	267.995	115.195	2.009	1.00	100.82	MS13
ATOM	45931	CA	ILE	M	25	268.166	116.626	1.826	1.00	100.82	MS13
ATOM	45932	CB	ILE	M	25	269.453	116.909	1.052	1.00	79.11	MS13
ATOM	45933	CG2	ILE	M	25	269.809	118.387	1.154	1.00	79.11	MS13
ATOM	45934	CG1	ILE	M	25	270.580	116.056	1.639	1.00	79.11	MS13
ATOM	45935	CD1	ILE	M	25	271.852	116.108	0.861	1.00	79.11	MS13
ATOM	45936	C	ILE	M	25	267.006	117.326	1.144	1.00	100.82	MS13
ATOM	45937	O	ILE	M	25	266.513	116.882	0.098	1.00	100.82	MS13
ATOM	45938	N	GLY	M	26	266.582	118.428	1.759	1.00	78.74	MS13
ATOM	45939	CA	GLY	M	26	265.484	119.225	1.240	1.00	78.74	MS13
ATOM	45940	C	GLY	M	26	265.865	120.689	1.126	1.00	78.74	MS13
ATOM	45941	O	GLY	M	26	266.917	121.085	1.608	1.00	78.74	MS13
ATOM	45942	N	LYS	M	27	265.013	121.492	0.494	1.00	93.16	MS13
ATOM	45943	CA	LYS	M	27	265.281	122.916	0.317	1.00	93.16	MS13
ATOM	45944	CB	LYS	M	27	264.007	123.653	-0.120	1.00	135.24	MS13
ATOM	45945	CG	LYS	M	27	263.893	123.888	-1.629	1.00	135.24	MS13
ATOM	45946	CD	LYS	M	27	264.943	124.885	-2.117	1.00	135.24	MS13
ATOM	45947	CE	LYS	M	27	264.769	125.220	-3.594	1.00	135.24	MS13
ATOM	45948	NZ	LYS	M	27	265.687	126.315	-4.029	1.00	135.24	MS13
ATOM	45949	C	LYS	M	27	265.836	123.548	1.582	1.00	93.16	MS13



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ATOM	45950	O	LYS	M	27	266.448	124.610	1.533	1.00	93.16	MS13
ATOM	45951	N	ALA	M	28	265.625	122.890	2.715	1.00	102.63	MS13
ATOM	45952	CA	ALA	M	28	266.127	123.393	3.986	1.00	102.63	MS13
ATOM	45953	CB	ALA	M	28	265.321	122.790	5.133	1.00	76.73	MS13
ATOM	45954	C	ALA	M	28	267.621	123.061	4.138	1.00	102.63	MS13
ATOM	45955	O	ALA	M	28	268.477	123.943	4.038	1.00	102.63	MS13
ATOM	45956	N	ARG	M	29	267.931	121.791	4.376	1.00	61.40	MS13
ATOM	45957	CA	ARG	M	29	269.315	121.359	4.521	1.00	61.40	MS13
ATOM	45958	CB	ARG	M	29	269.373	119.829	4.614	1.00	73.88	MS13
ATOM	45959	CG	ARG	M	29	268.532	119.272	5.771	1.00	73.88	MS13
ATOM	45960	CD	ARG	M	29	268.752	117.785	6.046	1.00	73.88	MS13
ATOM	45961	NE	ARG	M	29	268.984	117.562	7.471	1.00	73.88	MS13
ATOM	45962	CZ	ARG	M	29	269.072	116.368	8.053	1.00	73.88	MS13
ATOM	45963	NH1	ARG	M	29	268.939	115.260	7.338	1.00	73.88	MS13
ATOM	45964	NH2	ARG	M	29	269.320	116.279	9.356	1.00	73.88	MS13
ATOM	45965	C	ARG	M	29	270.121	121.849	3.324	1.00	61.40	MS13
ATOM	45966	O	ARG	M	29	271.325	122.069	3.428	1.00	61.40	MS13
ATOM	45967	N	ALA	M	30	269.430	122.041	2.200	1.00	77.14	MS13
ATOM	45968	CA	ALA	M	30	270.024	122.491	0.942	1.00	77.14	MS13
ATOM	45969	CB	ALA	M	30	268.945	122.597	-0.130	1.00	136.81	MS13
ATOM	45970	C	ALA	M	30	270.777	123.808	1.038	1.00	77.14	MS13
ATOM	45971	O	ALA	M	30	271.986	123.847	0.803	1.00	77.14	MS13
ATOM	45972	N	LYS	M	31	270.067	124.889	1.361	1.00	94.59	MS13
ATOM	45973	CA	LYS	M	31	270.702	126.202	1.480	1.00	94.59	MS13
ATOM	45974	CB	LYS	M	31	269.658	127.312	1.638	1.00	163.90	MS13
ATOM	45975	CG	LYS	M	31	269.069	127.763	0.314	1.00	163.90	MS13
ATOM	45976	CD	LYS	M	31	268.038	128.868	0.477	1.00	163.90	MS13
ATOM	45977	CE	LYS	M	31	267.403	129.202	-0.871	1.00	163.90	MS13
ATOM	45978	NZ	LYS	M	31	266.260	130.149	-0.761	1.00	163.90	MS13
ATOM	45979	C	LYS	M	31	271.687	126.254	2.632	1.00	94.59	MS13
ATOM	45980	O	LYS	M	31	272.691	126.960	2.563	1.00	94.59	MS13
ATOM	45981	N	GLU	M	32	271.411	125.502	3.691	1.00	88.12	MS13
ATOM	45982	CA	GLU	M	32	272.317	125.492	4.823	1.00	88.12	MS13
ATOM	45983	CB	GLU	M	32	271.753	124.678	5.975	1.00	129.87	MS13
ATOM	45984	CG	GLU	M	32	272.659	124.738	7.175	1.00	129.87	MS13
ATOM	45985	CD	GLU	M	32	272.182	123.880	8.306	1.00	129.87	MS13
ATOM	45986	OE1	GLU	M	32	272.164	122.643	8.142	1.00	129.87	MS13
ATOM	45987	OE2	GLU	M	32	271.822	124.443	9.359	1.00	129.87	MS13
ATOM	45988	C	GLU	M	32	273.662	124.905	4.418	1.00	88.12	MS13
ATOM	45989	O	GLU	M	32	274.689	125.569	4.535	1.00	88.12	MS13
ATOM	45990	N	ALA	M	33	273.656	123.662	3.942	1.00	100.59	MS13
ATOM	45991	CA	ALA	M	33	274.893	123.003	3.520	1.00	100.59	MS13
ATOM	45992	CB	ALA	M	33	274.580	121.683	2.816	1.00	89.67	MS13
ATOM	45993	C	ALA	M	33	275.732	123.899	2.610	1.00	100.59	MS13
ATOM	45994	O	ALA	M	33	276.957	123.804	2.598	1.00	100.59	MS13
ATOM	45995	N	LEU	M	34	275.077	124.767	1.844	1.00	81.54	MS13
ATOM	45996	CA	LEU	M	34	275.804	125.672	0.966	1.00	81.54	MS13
ATOM	45997	CB	LEU	M	34	274.907	126.195	-0.151	1.00	69.33	MS13
ATOM	45998	CG	LEU	M	34	274.558	125.198	-1.256	1.00	69.33	MS13
ATOM	45999	CD1	LEU	M	34	274.213	125.987	-2.497	1.00	69.33	MS13
ATOM	46000	CD2	LEU	M	34	275.736	124.275	-1.568	1.00	69.33	MS13
ATOM	46001	C	LEU	M	34	276.328	126.837	1.777	1.00	81.54	MS13
ATOM	46002	O	LEU	M	34	277.480	127.239	1.633	1.00	81.54	MS13
ATOM	46003	N	GLU	M	35	275.465	127.373	2.633	1.00	101.83	MS13
ATOM	46004	CA	GLU	M	35	275.811	128.489	3.505	1.00	101.83	MS13
ATOM	46005	CB	GLU	M	35	274.711	128.688	4.549	1.00	192.57	MS13
ATOM	46006	CG	GLU	M	35	274.782	130.007	5.285	1.00	192.57	MS13
ATOM	46007	CD	GLU	M	35	274.280	131.155	4.439	1.00	192.57	MS13
ATOM	46008	OE1	GLU	M	35	273.063	131.193	4.162	1.00	192.57	MS13
ATOM	46009	OE2	GLU	M	35	275.099	132.013	4.045	1.00	192.57	MS13
ATOM	46010	C	GLU	M	35	277.124	128.167	4.211	1.00	101.83	MS13
ATOM	46011	O	GLU	M	35	278.119	128.872	4.048	1.00	101.83	MS13
ATOM	46012	N	LYS	M	36	277.106	127.088	4.991	1.00	81.19	MS13
ATOM	46013	CA	LYS	M	36	278.271	126.629	5.740	1.00	81.19	MS13
ATOM	46014	CB	LYS	M	36	277.946	125.350	6.509	1.00	120.11	MS13
ATOM	46015	CG	LYS	M	36	277.005	125.523	7.678	1.00	120.11	MS13
ATOM	46016	CD	LYS	M	36	276.845	124.194	8.399	1.00	120.11	MS13
ATOM	46017	CE	LYS	M	36	275.896	124.290	9.586	1.00	120.11	MS13
ATOM	46018	NZ	LYS	M	36	275.715	122.968	10.260	1.00	120.11	MS13
ATOM	46019	C	LYS	M	36	279.482	126.355	4.858	1.00	81.19	MS13
ATOM	46020	O	LYS	M	36	280.622	126.524	5.295	1.00	81.19	MS13
ATOM	46021	N	THR	M	37	279.239	125.918	3.625	1.00	81.04	MS13
ATOM	46022	CA	THR	M	37	280.327	125.610	2.703	1.00	81.04	MS13
ATOM	46023	CB	THR	M	37	279.971	124.399	1.828	1.00	101.04	MS13
ATOM	46024	OG1	THR	M	37	279.552	123.318	2.665	1.00	101.04	MS13
ATOM	46025	CG2	THR	M	37	281.178	123.935	1.060	1.00	101.04	MS13
ATOM	46026	C	THR	M	37	280.673	126.806	1.818	1.00	81.04	MS13



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ATOM	46027	O	THR	M	37	281.474	126.699	0.891	1.00	81.04	MS13
ATOM	46028	N	GLY	M	38	280.075	127.952	2.125	1.00	81.83	MS13
ATOM	46029	CA	GLY	M	38	280.336	129.153	1.357	1.00	81.83	MS13
ATOM	46030	C	GLY	M	38	280.391	128.930	-0.141	1.00	81.83	MS13
ATOM	46031	O	GLY	M	38	281.382	129.261	-0.787	1.00	81.83	MS13
ATOM	46032	N	ILE	M	39	279.332	128.359	-0.700	1.00	109.72	MS13
ATOM	46033	CA	ILE	M	39	279.276	128.117	-2.135	1.00	109.72	MS13
ATOM	46034	CB	ILE	M	39	279.180	126.623	-2.474	1.00	56.64	MS13
ATOM	46035	CG2	ILE	M	39	279.244	126.442	-3.998	1.00	56.64	MS13
ATOM	46036	CG1	ILE	M	39	280.287	125.844	-1.769	1.00	56.64	MS13
ATOM	46037	CD1	ILE	M	39	280.205	124.339	-1.998	1.00	56.64	MS13
ATOM	46038	C	ILE	M	39	278.015	128.758	-2.668	1.00	109.72	MS13
ATOM	46039	O	ILE	M	39	276.913	128.377	-2.273	1.00	109.72	MS13
ATOM	46040	N	ASN	M	40	278.162	129.727	-3.561	1.00	94.08	MS13
ATOM	46041	CA	ASN	M	40	276.988	130.367	-4.116	1.00	94.08	MS13
ATOM	46042	CB	ASN	M	40	277.342	131.137	-5.372	1.00	92.93	MS13
ATOM	46043	CG	ASN	M	40	276.125	131.723	-6.041	1.00	92.93	MS13
ATOM	46044	OD1	ASN	M	40	276.171	132.101	-7.210	1.00	92.93	MS13
ATOM	46045	ND2	ASN	M	40	275.023	131.811	-5.300	1.00	92.93	MS13
ATOM	46046	C	ASN	M	40	275.999	129.268	-4.473	1.00	94.08	MS13
ATOM	46047	O	ASN	M	40	276.363	128.291	-5.126	1.00	94.08	MS13
ATOM	46048	N	PRO	M	41	274.738	129.398	-4.033	1.00	100.12	MS13
ATOM	46049	CD	PRO	M	41	274.166	130.402	-3.121	1.00	94.02	MS13
ATOM	46050	CA	PRO	M	41	273.746	128.369	-4.349	1.00	100.12	MS13
ATOM	46051	CB	PRO	M	41	272.504	128.843	-3.603	1.00	94.02	MS13
ATOM	46052	CG	PRO	M	41	273.061	129.618	-2.467	1.00	94.02	MS13
ATOM	46053	C	PRO	M	41	273.508	128.325	-5.842	1.00	100.12	MS13
ATOM	46054	O	PRO	M	41	273.492	127.264	-6.457	1.00	100.12	MS13
ATOM	46055	N	ALA	M	42	273.339	129.514	-6.403	1.00	88.10	MS13
ATOM	46056	CA	ALA	M	42	273.076	129.709	-7.819	1.00	88.10	MS13
ATOM	46057	CB	ALA	M	42	273.014	131.190	-8.100	1.00	40.47	MS13
ATOM	46058	C	ALA	M	42	274.042	129.038	-8.798	1.00	88.10	MS13
ATOM	46059	O	ALA	M	42	273.733	128.908	-9.993	1.00	88.10	MS13
ATOM	46060	N	THR	M	43	275.207	128.622	-8.316	1.00	80.02	MS13
ATOM	46061	CA	THR	M	43	276.167	127.978	-9.202	1.00	80.02	MS13
ATOM	46062	CB	THR	M	43	277.498	127.656	-8.472	1.00	110.14	MS13
ATOM	46063	OG1	THR	M	43	277.236	126.851	-7.318	1.00	110.14	MS13
ATOM	46064	CG2	THR	M	43	278.197	128.934	-8.038	1.00	110.14	MS13
ATOM	46065	C	THR	M	43	275.591	126.682	-9.769	1.00	80.02	MS13
ATOM	46066	O	THR	M	43	275.134	125.821	-9.018	1.00	80.02	MS13
ATOM	46067	N	ARG	M	44	275.591	126.554	-11.094	1.00	74.70	MS13
ATOM	46068	CA	ARG	M	44	275.099	125.335	-11.729	1.00	74.70	MS13
ATOM	46069	CB	ARG	M	44	275.114	125.495	-13.244	1.00	124.36	MS13
ATOM	46070	CG	ARG	M	44	273.770	125.266	-13.864	1.00	124.36	MS13
ATOM	46071	CD	ARG	M	44	272.755	126.182	-13.234	1.00	124.36	MS13
ATOM	46072	NE	ARG	M	44	271.401	125.827	-13.623	1.00	124.36	MS13
ATOM	46073	CZ	ARG	M	44	270.335	126.541	-13.294	1.00	124.36	MS13
ATOM	46074	NH1	ARG	M	44	270.479	127.644	-12.574	1.00	124.36	MS13
ATOM	46075	NH2	ARG	M	44	269.131	126.155	-13.687	1.00	124.36	MS13
ATOM	46076	C	ARG	M	44	276.051	124.217	-11.315	1.00	74.70	MS13
ATOM	46077	O	ARG	M	44	277.265	124.397	-11.385	1.00	74.70	MS13
ATOM	46078	N	VAL	M	45	275.527	123.074	-10.882	1.00	71.07	MS13
ATOM	46079	CA	VAL	M	45	276.402	121.985	-10.439	1.00	71.07	MS13
ATOM	46080	CB	VAL	M	45	275.656	120.641	-10.338	1.00	63.89	MS13
ATOM	46081	CG1	VAL	M	45	276.639	119.523	-10.007	1.00	63.89	MS13
ATOM	46082	CG2	VAL	M	45	274.587	120.727	-9.259	1.00	63.89	MS13
ATOM	46083	C	VAL	M	45	277.609	121.792	-11.343	1.00	71.07	MS13
ATOM	46084	O	VAL	M	45	278.723	121.553	-10.863	1.00	71.07	MS13
ATOM	46085	N	LYS	M	46	277.388	121.905	-12.649	1.00	79.96	MS13
ATOM	46086	CA	LYS	M	46	278.464	121.746	-13.616	1.00	79.96	MS13
ATOM	46087	CB	LYS	M	46	277.910	121.831	-15.034	1.00	110.36	MS13
ATOM	46088	CG	LYS	M	46	277.068	123.052	-15.293	1.00	110.36	MS13
ATOM	46089	CD	LYS	M	46	277.162	123.453	-16.749	1.00	110.36	MS13
ATOM	46090	CE	LYS	M	46	278.589	123.882	-17.091	1.00	110.36	MS13
ATOM	46091	NZ	LYS	M	46	278.753	124.339	-18.505	1.00	110.36	MS13
ATOM	46092	C	LYS	M	46	279.566	122.789	-13.431	1.00	79.96	MS13
ATOM	46093	O	LYS	M	46	280.731	122.533	-13.734	1.00	79.96	MS13
ATOM	46094	N	ASP	M	47	279.198	123.960	-12.927	1.00	67.46	MS13
ATOM	46095	CA	ASP	M	47	280.164	125.028	-12.715	1.00	67.46	MS13
ATOM	46096	CB	ASP	M	47	279.506	126.392	-12.917	1.00	111.60	MS13
ATOM	46097	CG	ASP	M	47	278.894	126.546	-14.294	1.00	111.60	MS13
ATOM	46098	OD1	ASP	M	47	279.526	126.107	-15.281	1.00	111.60	MS13
ATOM	46099	OD2	ASP	M	47	277.786	127.121	-14.385	1.00	111.60	MS13
ATOM	46100	C	ASP	M	47	280.808	124.990	-11.341	1.00	67.46	MS13
ATOM	46101	O	ASP	M	47	281.590	125.874	-11.001	1.00	67.46	MS13
ATOM	46102	N	LEU	M	48	280.485	123.975	-10.546	1.00	84.77	MS13
ATOM	46103	CA	LEU	M	48	281.064	123.850	-9.211	1.00	84.77	MS13



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ATOM	46104	CB	LEU	M	48	280.351	122.758	-8.421	1.00	96.66	MS13
ATOM	46105	CG	LEU	M	48	279.205	123.216	-7.533	1.00	96.66	MS13
ATOM	46106	CD1	LEU	M	48	278.661	122.015	-6.793	1.00	96.66	MS13
ATOM	46107	CD2	LEU	M	48	279.695	124.277	-6.554	1.00	96.66	MS13
ATOM	46108	C	LEU	M	48	282.551	123.521	-9.250	1.00	84.77	MS13
ATOM	46109	O	LEU	M	48	282.980	122.654	-10.017	1.00	84.77	MS13
ATOM	46110	N	THR	M	49	283.329	124.199	-8.409	1.00	68.20	MS13
ATOM	46111	CA	THR	M	49	284.772	123.976	-8.339	1.00	68.20	MS13
ATOM	46112	CB	THR	M	49	285.482	125.119	-7.636	1.00	69.11	MS13
ATOM	46113	OG1	THR	M	49	285.657	126.187	-8.566	1.00	69.11	MS13
ATOM	46114	CG2	THR	M	49	286.837	124.675	-7.114	1.00	69.11	MS13
ATOM	46115	C	THR	M	49	285.153	122.696	-7.628	1.00	68.20	MS13
ATOM	46116	O	THR	M	49	284.597	122.363	-6.580	1.00	68.20	MS13
ATOM	46117	N	GLU	M	50	286.127	121.997	-8.206	1.00	78.27	MS13
ATOM	46118	CA	GLU	M	50	286.600	120.735	-7.665	1.00	78.27	MS13
ATOM	46119	CB	GLU	M	50	287.911	120.332	-8.336	1.00	151.48	MS13
ATOM	46120	CG	GLU	M	50	288.324	118.929	-7.989	1.00	151.48	MS13
ATOM	46121	CD	GLU	M	50	287.142	117.987	-8.021	1.00	151.48	MS13
ATOM	46122	OE1	GLU	M	50	286.481	117.901	-9.078	1.00	151.48	MS13
ATOM	46123	OE2	GLU	M	50	286.869	117.344	-6.988	1.00	151.48	MS13
ATOM	46124	C	GLU	M	50	286.792	120.859	-6.169	1.00	78.27	MS13
ATOM	46125	O	GLU	M	50	286.690	119.879	-5.437	1.00	78.27	MS13
ATOM	46126	N	ALA	M	51	287.066	122.083	-5.729	1.00	91.10	MS13
ATOM	46127	CA	ALA	M	51	287.262	122.376	-4.321	1.00	91.10	MS13
ATOM	46128	CB	ALA	M	51	287.868	123.760	-4.159	1.00	101.22	MS13
ATOM	46129	C	ALA	M	51	285.902	122.318	-3.644	1.00	91.10	MS13
ATOM	46130	O	ALA	M	51	285.641	121.435	-2.829	1.00	91.10	MS13
ATOM	46131	N	GLU	M	52	285.042	123.268	-4.001	1.00	92.87	MS13
ATOM	46132	CA	GLU	M	52	283.693	123.348	-3.454	1.00	92.87	MS13
ATOM	46133	CB	GLU	M	52	282.830	124.231	-4.350	1.00	83.57	MS13
ATOM	46134	CG	GLU	M	52	283.435	125.584	-4.646	1.00	83.57	MS13
ATOM	46135	CD	GLU	M	52	282.648	126.351	-5.697	1.00	83.57	MS13
ATOM	46136	OE1	GLU	M	52	282.509	125.841	-6.832	1.00	83.57	MS13
ATOM	46137	OE2	GLU	M	52	282.166	127.464	-5.390	1.00	83.57	MS13
ATOM	46138	C	GLU	M	52	283.071	121.955	-3.364	1.00	92.87	MS13
ATOM	46139	O	GLU	M	52	282.525	121.569	-2.332	1.00	92.87	MS13
ATOM	46140	N	VAL	M	53	283.161	121.203	-4.454	1.00	85.91	MS13
ATOM	46141	CA	VAL	M	53	282.605	119.857	-4.492	1.00	85.91	MS13
ATOM	46142	CB	VAL	M	53	282.938	119.136	-5.821	1.00	61.08	MS13
ATOM	46143	CG1	VAL	M	53	282.321	117.728	-5.815	1.00	61.08	MS13
ATOM	46144	CG2	VAL	M	53	282.425	119.960	-7.006	1.00	61.08	MS13
ATOM	46145	C	VAL	M	53	283.140	119.014	-3.349	1.00	85.91	MS13
ATOM	46146	O	VAL	M	53	282.414	118.214	-2.767	1.00	85.91	MS13
ATOM	46147	N	VAL	M	54	284.414	119.198	-3.032	1.00	88.93	MS13
ATOM	46148	CA	VAL	M	54	285.042	118.441	-1.963	1.00	88.93	MS13
ATOM	46149	CB	VAL	M	54	286.568	118.571	-2.027	1.00	84.31	MS13
ATOM	46150	CG1	VAL	M	54	287.206	117.824	-0.862	1.00	84.31	MS13
ATOM	46151	CG2	VAL	M	54	287.065	118.022	-3.347	1.00	84.31	MS13
ATOM	46152	C	VAL	M	54	284.567	118.872	-0.581	1.00	88.93	MS13
ATOM	46153	O	VAL	M	54	284.459	118.050	0.326	1.00	88.93	MS13
ATOM	46154	N	ARG	M	55	284.293	120.160	-0.414	1.00	111.13	MS13
ATOM	46155	CA	ARG	M	55	283.823	120.662	0.872	1.00	111.13	MS13
ATOM	46156	CB	ARG	M	55	283.899	122.194	0.908	1.00	121.40	MS13
ATOM	46157	CG	ARG	M	55	285.301	122.778	0.843	1.00	121.40	MS13
ATOM	46158	CD	ARG	M	55	285.254	124.301	0.865	1.00	121.40	MS13
ATOM	46159	NE	ARG	M	55	284.634	124.849	-0.339	1.00	121.40	MS13
ATOM	46160	CZ	ARG	M	55	284.467	126.148	-0.572	1.00	121.40	MS13
ATOM	46161	NH1	ARG	M	55	284.872	127.041	0.322	1.00	121.40	MS13
ATOM	46162	NH2	ARG	M	55	283.907	126.556	-1.704	1.00	121.40	MS13
ATOM	46163	C	ARG	M	55	282.375	120.219	1.072	1.00	111.13	MS13
ATOM	46164	O	ARG	M	55	282.032	119.587	2.076	1.00	111.13	MS13
ATOM	46165	N	LEU	M	56	281.542	120.564	0.093	1.00	82.24	MS13
ATOM	46166	CA	LEU	M	56	280.122	120.237	0.091	1.00	82.24	MS13
ATOM	46167	CB	LEU	M	56	279.513	120.657	-1.250	1.00	64.74	MS13
ATOM	46168	CG	LEU	M	56	278.079	121.180	-1.281	1.00	64.74	MS13
ATOM	46169	CD1	LEU	M	56	277.781	121.742	-2.658	1.00	64.74	MS13
ATOM	46170	CD2	LEU	M	56	277.115	120.073	-0.931	1.00	64.74	MS13
ATOM	46171	C	LEU	M	56	279.961	118.733	0.300	1.00	82.24	MS13
ATOM	46172	O	LEU	M	56	279.117	118.286	1.079	1.00	82.24	MS13
ATOM	46173	N	ARG	M	57	280.789	117.961	-0.397	1.00	77.26	MS13
ATOM	46174	CA	ARG	M	57	280.759	116.512	-0.290	1.00	77.26	MS13
ATOM	46175	CB	ARG	M	57	281.762	115.886	-1.261	1.00	127.34	MS13
ATOM	46176	CG	ARG	M	57	281.637	114.386	-1.379	1.00	127.34	MS13
ATOM	46177	CD	ARG	M	57	282.691	113.795	-2.298	1.00	127.34	MS13
ATOM	46178	NE	ARG	M	57	282.691	114.422	-3.619	1.00	127.34	MS13
ATOM	46179	CZ	ARG	M	57	283.287	113.910	-4.694	1.00	127.34	MS13
ATOM	46180	NH1	ARG	M	57	283.933	112.752	-4.612	1.00	127.34	MS13



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ATOM	46181	NH2	ARG	M	57	283.244	114.559	-5.855	1.00127.34	MS13
ATOM	46182	C	ARG	M	57	281.090	116.079	1.135	1.00 77.26	MS13
ATOM	46183	O	ARG	M	57	280.339	115.327	1.748	1.00 77.26	MS13
ATOM	46184	N	GLU	M	58	282.206	116.564	1.668	1.00119.30	MS13
ATOM	46185	CA	GLU	M	58	282.616	116.191	3.019	1.00119.30	MS13
ATOM	46186	CB	GLU	M	58	283.998	116.771	3.341	1.00198.94	MS13
ATOM	46187	CG	GLU	M	58	285.111	116.251	2.435	1.00198.94	MS13
ATOM	46188	CD	GLU	M	58	285.191	114.728	2.382	1.00198.94	MS13
ATOM	46189	OE1	GLU	M	58	285.986	114.210	1.571	1.00198.94	MS13
ATOM	46190	OE2	GLU	M	58	284.468	114.050	3.146	1.00198.94	MS13
ATOM	46191	C	GLU	M	58	281.615	116.597	4.094	1.00119.30	MS13
ATOM	46192	O	GLU	M	58	281.314	115.809	4.995	1.00119.30	MS13
ATOM	46193	N	TYR	M	59	281.100	117.820	4.007	1.00 80.84	MS13
ATOM	46194	CA	TYR	M	59	280.119	118.282	4.987	1.00 80.84	MS13
ATOM	46195	CB	TYR	M	59	279.731	119.735	4.711	1.00 88.19	MS13
ATOM	46196	CG	TYR	M	59	278.578	120.238	5.552	1.00 88.19	MS13
ATOM	46197	CD1	TYR	M	59	278.566	120.062	6.934	1.00 88.19	MS13
ATOM	46198	CE1	TYR	M	59	277.521	120.535	7.706	1.00 88.19	MS13
ATOM	46199	CD2	TYR	M	59	277.505	120.905	4.965	1.00 88.19	MS13
ATOM	46200	CE2	TYR	M	59	276.456	121.381	5.728	1.00 88.19	MS13
ATOM	46201	CZ	TYR	M	59	276.470	121.193	7.097	1.00 88.19	MS13
ATOM	46202	OH	TYR	M	59	275.423	121.663	7.852	1.00 88.19	MS13
ATOM	46203	C	TYR	M	59	278.879	117.399	4.919	1.00 80.84	MS13
ATOM	46204	O	TYR	M	59	278.666	116.534	5.769	1.00 80.84	MS13
ATOM	46205	N	VAL	M	60	278.078	117.620	3.884	1.00 69.27	MS13
ATOM	46206	CA	VAL	M	60	276.853	116.869	3.658	1.00 69.27	MS13
ATOM	46207	CB	VAL	M	60	276.442	116.948	2.198	1.00 57.58	MS13
ATOM	46208	CG1	VAL	M	60	275.248	116.056	1.951	1.00 57.58	MS13
ATOM	46209	CG2	VAL	M	60	276.118	118.384	1.844	1.00 57.58	MS13
ATOM	46210	C	VAL	M	60	276.926	115.401	4.041	1.00 69.27	MS13
ATOM	46211	O	VAL	M	60	276.085	114.913	4.792	1.00 69.27	MS13
ATOM	46212	N	GLU	M	61	277.917	114.691	3.514	1.00 80.74	MS13
ATOM	46213	CA	GLU	M	61	278.049	113.272	3.818	1.00 80.74	MS13
ATOM	46214	CB	GLU	M	61	279.231	112.661	3.065	1.00115.01	MS13
ATOM	46215	CG	GLU	M	61	279.077	112.672	1.559	1.00115.01	MS13
ATOM	46216	CD	GLU	M	61	280.066	111.761	0.872	1.00115.01	MS13
ATOM	46217	OE1	GLU	M	61	279.911	110.524	0.977	1.00115.01	MS13
ATOM	46218	OE2	GLU	M	61	281.003	112.283	0.234	1.00115.01	MS13
ATOM	46219	C	GLU	M	61	278.235	113.061	5.307	1.00 80.74	MS13
ATOM	46220	O	GLU	M	61	277.466	112.341	5.947	1.00 80.74	MS13
ATOM	46221	N	ASN	M	62	279.275	113.686	5.846	1.00116.69	MS13
ATOM	46222	CA	ASN	M	62	279.582	113.595	7.262	1.00116.69	MS13
ATOM	46223	CB	ASN	M	62	281.096	113.650	7.478	1.00158.36	MS13
ATOM	46224	CG	ASN	M	62	281.808	112.423	6.943	1.00158.36	MS13
ATOM	46225	OD1	ASN	M	62	283.033	112.409	6.813	1.00158.36	MS13
ATOM	46226	ND2	ASN	M	62	281.044	111.381	6.639	1.00158.36	MS13
ATOM	46227	C	ASN	M	62	278.925	114.788	7.924	1.00116.69	MS13
ATOM	46228	O	ASN	M	62	279.532	115.850	8.027	1.00116.69	MS13
ATOM	46229	N	THR	M	63	277.678	114.614	8.351	1.00118.04	MS13
ATOM	46230	CA	THR	M	63	276.933	115.687	9.001	1.00118.04	MS13
ATOM	46231	CB	THR	M	63	277.080	117.022	8.202	1.00 69.59	MS13
ATOM	46232	OG1	THR	M	63	276.802	118.133	9.057	1.00 69.59	MS13
ATOM	46233	CG2	THR	M	63	276.136	117.059	7.020	1.00 69.59	MS13
ATOM	46234	C	THR	M	63	275.452	115.293	9.148	1.00118.04	MS13
ATOM	46235	O	THR	M	63	274.837	115.541	10.184	1.00118.04	MS13
ATOM	46236	N	TRP	M	64	274.887	114.669	8.116	1.00101.12	MS13
ATOM	46237	CA	TRP	M	64	273.493	114.226	8.148	1.00101.12	MS13
ATOM	46238	CB	TRP	M	64	272.628	115.018	7.174	1.00 69.47	MS13
ATOM	46239	CG	TRP	M	64	272.473	116.456	7.476	1.00 69.47	MS13
ATOM	46240	CD2	TRP	M	64	272.514	117.528	6.532	1.00 69.47	MS13
ATOM	46241	CE2	TRP	M	64	272.249	118.723	7.242	1.00 69.47	MS13
ATOM	46242	CE3	TRP	M	64	272.747	117.597	5.153	1.00 69.47	MS13
ATOM	46243	CD1	TRP	M	64	272.195	117.021	8.690	1.00 69.47	MS13
ATOM	46244	NE1	TRP	M	64	272.057	118.386	8.557	1.00 69.47	MS13
ATOM	46245	CZ2	TRP	M	64	272.212	119.978	6.617	1.00 69.47	MS13
ATOM	46246	CZ3	TRP	M	64	272.711	118.847	4.528	1.00 69.47	MS13
ATOM	46247	CH2	TRP	M	64	272.445	120.022	5.265	1.00 69.47	MS13
ATOM	46248	C	TRP	M	64	273.386	112.761	7.752	1.00101.12	MS13
ATOM	46249	O	TRP	M	64	274.250	112.222	7.059	1.00101.12	MS13
ATOM	46250	N	LYS	M	65	272.307	112.125	8.188	1.00116.38	MS13
ATOM	46251	CA	LYS	M	65	272.065	110.732	7.857	1.00116.38	MS13
ATOM	46252	CB	LYS	M	65	271.250	110.078	8.969	1.00113.73	MS13
ATOM	46253	CG	LYS	M	65	271.287	108.568	8.971	1.00113.73	MS13
ATOM	46254	CD	LYS	M	65	270.968	108.038	10.360	1.00113.73	MS13
ATOM	46255	CE	LYS	M	65	271.214	106.542	10.460	1.00113.73	MS13
ATOM	46256	NZ	LYS	M	65	271.073	106.048	11.859	1.00113.73	MS13
ATOM	46257	C	LYS	M	65	271.272	110.790	6.558	1.00116.38	MS13



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ATOM	46258	O	LYS	M	65	270.210	111.410	6.509	1.00116.38	MS13
ATOM	46259	N	LEU	M	66	271.788	110.162	5.505	1.00 96.31	MS13
ATOM	46260	CA	LEU	M	66	271.117	110.197	4.208	1.00 96.31	MS13
ATOM	46261	CB	LEU	M	66	271.906	111.096	3.254	1.00 57.67	MS13
ATOM	46262	CG	LEU	M	66	272.467	112.398	3.838	1.00 57.67	MS13
ATOM	46263	CD1	LEU	M	66	273.356	113.076	2.814	1.00 57.67	MS13
ATOM	46264	CD2	LEU	M	66	271.338	113.324	4.235	1.00 57.67	MS13
ATOM	46265	C	LEU	M	66	270.935	108.829	3.556	1.00 96.31	MS13
ATOM	46266	O	LEU	M	66	271.171	107.785	4.172	1.00 96.31	MS13
ATOM	46267	N	GLU	M	67	270.512	108.864	2.294	1.00 89.24	MS13
ATOM	46268	CA	GLU	M	67	270.283	107.677	1.469	1.00 89.24	MS13
ATOM	46269	CB	GLU	M	67	271.456	107.480	0.513	1.00 91.43	MS13
ATOM	46270	CG	GLU	M	67	271.555	108.556	-0.534	1.00 91.43	MS13
ATOM	46271	CD	GLU	M	67	270.242	108.769	-1.261	1.00 91.43	MS13
ATOM	46272	OE1	GLU	M	67	269.649	107.770	-1.731	1.00 91.43	MS13
ATOM	46273	OE2	GLU	M	67	269.808	109.937	-1.363	1.00 91.43	MS13
ATOM	46274	C	GLU	M	67	270.001	106.353	2.169	1.00 89.24	MS13
ATOM	46275	O	GLU	M	67	269.208	106.279	3.109	1.00 89.24	MS13
ATOM	46276	N	GLY	M	68	270.650	105.304	1.674	1.00110.12	MS13
ATOM	46277	CA	GLY	M	68	270.474	103.975	2.227	1.00110.12	MS13
ATOM	46278	C	GLY	M	68	270.445	103.926	3.740	1.00110.12	MS13
ATOM	46279	O	GLY	M	68	269.496	103.396	4.320	1.00110.12	MS13
ATOM	46280	N	GLU	M	69	271.478	104.470	4.380	1.00111.28	MS13
ATOM	46281	CA	GLU	M	69	271.553	104.478	5.838	1.00111.28	MS13
ATOM	46282	CB	GLU	M	69	272.748	105.306	6.309	1.00187.22	MS13
ATOM	46283	CG	GLU	M	69	272.806	105.474	7.818	1.00187.22	MS13
ATOM	46284	CD	GLU	M	69	273.986	106.310	8.270	1.00187.22	MS13
ATOM	46285	OE1	GLU	M	69	275.136	105.879	8.051	1.00187.22	MS13
ATOM	46286	OE2	GLU	M	69	273.771	107.397	8.844	1.00187.22	MS13
ATOM	46287	C	GLU	M	69	270.279	105.048	6.450	1.00111.28	MS13
ATOM	46288	O	GLU	M	69	269.844	104.614	7.519	1.00111.28	MS13
ATOM	46289	N	LEU	M	70	269.688	106.020	5.761	1.00 95.04	MS13
ATOM	46290	CA	LEU	M	70	268.467	106.661	6.228	1.00 95.04	MS13
ATOM	46291	CB	LEU	M	70	268.216	107.944	5.444	1.00 72.31	MS13
ATOM	46292	CG	LEU	M	70	267.516	109.042	6.245	1.00 72.31	MS13
ATOM	46293	CD1	LEU	M	70	266.996	110.113	5.292	1.00 72.31	MS13
ATOM	46294	CD2	LEU	M	70	266.379	108.448	7.053	1.00 72.31	MS13
ATOM	46295	C	LEU	M	70	267.270	105.730	6.067	1.00 95.04	MS13
ATOM	46296	O	LEU	M	70	266.610	105.378	7.045	1.00 95.04	MS13
ATOM	46297	N	ARG	M	71	266.988	105.350	4.823	1.00 70.68	MS13
ATOM	46298	CA	ARG	M	71	265.883	104.447	4.522	1.00 70.68	MS13
ATOM	46299	CB	ARG	M	71	265.995	103.946	3.085	1.00 74.24	MS13
ATOM	46300	CG	ARG	M	71	266.150	105.043	2.052	1.00 74.24	MS13
ATOM	46301	CD	ARG	M	71	266.614	104.452	0.729	1.00 74.24	MS13
ATOM	46302	NE	ARG	M	71	266.911	105.467	-0.278	1.00 74.24	MS13
ATOM	46303	CZ	ARG	M	71	265.989	106.171	-0.922	1.00 74.24	MS13
ATOM	46304	NH1	ARG	M	71	264.701	105.973	-0.671	1.00 74.24	MS13
ATOM	46305	NH2	ARG	M	71	266.361	107.077	-1.814	1.00 74.24	MS13
ATOM	46306	C	ARG	M	71	265.961	103.260	5.476	1.00 70.68	MS13
ATOM	46307	O	ARG	M	71	264.946	102.745	5.942	1.00 70.68	MS13
ATOM	46308	N	ALA	M	72	267.186	102.830	5.750	1.00 92.11	MS13
ATOM	46309	CA	ALA	M	72	267.422	101.717	6.651	1.00 92.11	MS13
ATOM	46310	CB	ALA	M	72	268.913	101.504	6.833	1.00163.20	MS13
ATOM	46311	C	ALA	M	72	266.777	102.034	7.986	1.00 92.11	MS13
ATOM	46312	O	ALA	M	72	265.932	101.280	8.476	1.00 92.11	MS13
ATOM	46313	N	GLU	M	73	267.179	103.161	8.566	1.00 90.13	MS13
ATOM	46314	CA	GLU	M	73	266.652	103.593	9.854	1.00 90.13	MS13
ATOM	46315	CB	GLU	M	73	267.142	105.001	10.192	1.00105.59	MS13
ATOM	46316	CG	GLU	M	73	266.866	105.398	11.629	1.00105.59	MS13
ATOM	46317	CD	GLU	M	73	267.423	106.763	11.986	1.00105.59	MS13
ATOM	46318	OE1	GLU	M	73	266.905	107.771	11.465	1.00105.59	MS13
ATOM	46319	OE2	GLU	M	73	268.380	106.829	12.788	1.00105.59	MS13
ATOM	46320	C	GLU	M	73	265.135	103.582	9.819	1.00 90.13	MS13
ATOM	46321	O	GLU	M	73	264.494	102.702	10.393	1.00 90.13	MS13
ATOM	46322	N	VAL	M	74	264.569	104.569	9.137	1.00 75.83	MS13
ATOM	46323	CA	VAL	M	74	263.125	104.682	9.011	1.00 75.83	MS13
ATOM	46324	CB	VAL	M	74	262.743	105.420	7.712	1.00 52.91	MS13
ATOM	46325	CG1	VAL	M	74	261.258	105.728	7.703	1.00 52.91	MS13
ATOM	46326	CG2	VAL	M	74	263.556	106.696	7.584	1.00 52.91	MS13
ATOM	46327	C	VAL	M	74	262.508	103.291	8.984	1.00 75.83	MS13
ATOM	46328	O	VAL	M	74	261.875	102.863	9.945	1.00 75.83	MS13
ATOM	46329	N	ALA	M	75	262.716	102.586	7.879	1.00 61.31	MS13
ATOM	46330	CA	ALA	M	75	262.181	101.242	7.714	1.00 61.31	MS13
ATOM	46331	CB	ALA	M	75	262.904	100.530	6.574	1.00134.87	MS13
ATOM	46332	C	ALA	M	75	262.317	100.444	9.002	1.00 61.31	MS13
ATOM	46333	O	ALA	M	75	261.369	99.802	9.451	1.00 61.31	MS13
ATOM	46334	N	ALA	M	76	263.504	100.495	9.592	1.00 96.00	MS13



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ATOM	46335	CA	ALA	M	76	263.770	99.774	10.825	1.00	96.00	MS13
ATOM	46336	CB	ALA	M	76	265.221	99.972	11.235	1.00	124.93	MS13
ATOM	46337	C	ALA	M	76	262.834	100.225	11.944	1.00	96.00	MS13
ATOM	46338	O	ALA	M	76	262.462	99.422	12.802	1.00	96.00	MS13
ATOM	46339	N	ASN	M	77	262.467	101.508	11.937	1.00	82.86	MS13
ATOM	46340	CA	ASN	M	77	261.562	102.060	12.946	1.00	82.86	MS13
ATOM	46341	CB	ASN	M	77	261.397	103.573	12.777	1.00	115.67	MS13
ATOM	46342	CG	ASN	M	77	262.609	104.348	13.224	1.00	115.67	MS13
ATOM	46343	OD1	ASN	M	77	263.100	104.168	14.339	1.00	115.67	MS13
ATOM	46344	ND2	ASN	M	77	263.096	105.231	12.361	1.00	115.67	MS13
ATOM	46345	C	ASN	M	77	260.192	101.422	12.800	1.00	82.86	MS13
ATOM	46346	O	ASN	M	77	259.693	100.764	13.713	1.00	82.86	MS13
ATOM	46347	N	ILE	M	78	259.587	101.638	11.637	1.00	62.55	MS13
ATOM	46348	CA	ILE	M	78	258.269	101.107	11.323	1.00	62.55	MS13
ATOM	46349	CB	ILE	M	78	258.008	101.251	9.824	1.00	69.18	MS13
ATOM	46350	CG2	ILE	M	78	256.518	101.342	9.557	1.00	69.18	MS13
ATOM	46351	CG1	ILE	M	78	258.666	102.536	9.326	1.00	69.18	MS13
ATOM	46352	CD1	ILE	M	78	258.720	102.659	7.820	1.00	69.18	MS13
ATOM	46353	C	ILE	M	78	258.183	99.635	11.745	1.00	62.55	MS13
ATOM	46354	O	ILE	M	78	257.176	99.176	12.287	1.00	62.55	MS13
ATOM	46355	N	LYS	M	79	259.258	98.901	11.502	1.00	66.95	MS13
ATOM	46356	CA	LYS	M	79	259.310	97.503	11.877	1.00	66.95	MS13
ATOM	46357	CB	LYS	M	79	260.690	96.934	11.530	1.00	87.53	MS13
ATOM	46358	CG	LYS	M	79	260.721	95.436	11.235	1.00	87.53	MS13
ATOM	46359	CD	LYS	M	79	260.921	94.593	12.477	1.00	87.53	MS13
ATOM	46360	CE	LYS	M	79	260.875	93.111	12.137	1.00	87.53	MS13
ATOM	46361	NZ	LYS	M	79	261.058	92.237	13.333	1.00	87.53	MS13
ATOM	46362	C	LYS	M	79	259.074	97.443	13.387	1.00	66.95	MS13
ATOM	46363	O	LYS	M	79	258.245	96.673	13.874	1.00	66.95	MS13
ATOM	46364	N	ARG	M	80	259.796	98.294	14.109	1.00	83.05	MS13
ATOM	46365	CA	ARG	M	80	259.741	98.373	15.567	1.00	83.05	MS13
ATOM	46366	CB	ARG	M	80	260.560	99.588	16.031	1.00	135.23	MS13
ATOM	46367	CG	ARG	M	80	260.729	99.699	17.530	1.00	135.23	MS13
ATOM	46368	CD	ARG	M	80	261.037	101.121	17.943	1.00	135.23	MS13
ATOM	46369	NE	ARG	M	80	260.577	101.361	19.307	1.00	135.23	MS13
ATOM	46370	CZ	ARG	M	80	260.223	102.551	19.783	1.00	135.23	MS13
ATOM	46371	NH1	ARG	M	80	260.278	103.622	19.003	1.00	135.23	MS13
ATOM	46372	NH2	ARG	M	80	259.802	102.667	21.037	1.00	135.23	MS13
ATOM	46373	C	ARG	M	80	258.336	98.417	16.198	1.00	83.05	MS13
ATOM	46374	O	ARG	M	80	257.847	97.418	16.753	1.00	83.05	MS13
ATOM	46375	N	LEU	M	81	257.701	99.584	16.135	1.00	127.70	MS13
ATOM	46376	CA	LEU	M	81	256.368	99.760	16.703	1.00	127.70	MS13
ATOM	46377	CB	LEU	M	81	255.857	101.185	16.445	1.00	52.91	MS13
ATOM	46378	CG	LEU	M	81	255.718	101.676	15.007	1.00	52.91	MS13
ATOM	46379	CD1	LEU	M	81	255.828	103.201	14.989	1.00	52.91	MS13
ATOM	46380	CD2	LEU	M	81	256.801	101.084	14.152	1.00	52.91	MS13
ATOM	46381	C	LEU	M	81	255.438	98.733	16.089	1.00	127.70	MS13
ATOM	46382	O	LEU	M	81	254.363	98.449	16.612	1.00	127.70	MS13
ATOM	46383	N	MET	M	82	255.873	98.165	14.976	1.00	75.00	MS13
ATOM	46384	CA	MET	M	82	255.088	97.154	14.303	1.00	75.00	MS13
ATOM	46385	CB	MET	M	82	255.447	97.114	12.825	1.00	107.00	MS13
ATOM	46386	CG	MET	M	82	254.495	96.298	11.989	1.00	107.00	MS13
ATOM	46387	SD	MET	M	82	255.057	96.210	10.300	1.00	107.00	MS13
ATOM	46388	CE	MET	M	82	255.310	97.953	9.938	1.00	107.00	MS13
ATOM	46389	C	MET	M	82	255.331	95.780	14.928	1.00	75.00	MS13
ATOM	46390	O	MET	M	82	254.624	94.823	14.628	1.00	75.00	MS13
ATOM	46391	N	ASP	M	83	256.338	95.673	15.788	1.00	111.28	MS13
ATOM	46392	CA	ASP	M	83	256.626	94.399	16.438	1.00	111.28	MS13
ATOM	46393	CB	ASP	M	83	258.122	94.168	16.521	1.00	91.99	MS13
ATOM	46394	CG	ASP	M	83	258.753	94.065	15.162	1.00	91.99	MS13
ATOM	46395	OD1	ASP	M	83	258.412	93.124	14.416	1.00	91.99	MS13
ATOM	46396	OD2	ASP	M	83	259.584	94.931	14.834	1.00	91.99	MS13
ATOM	46397	C	ASP	M	83	256.026	94.422	17.821	1.00	111.28	MS13
ATOM	46398	O	ASP	M	83	255.579	93.397	18.334	1.00	111.28	MS13
ATOM	46399	N	ILE	M	84	256.030	95.602	18.425	1.00	100.91	MS13
ATOM	46400	CA	ILE	M	84	255.435	95.769	19.735	1.00	100.91	MS13
ATOM	46401	CB	ILE	M	84	256.047	96.975	20.472	1.00	72.68	MS13
ATOM	46402	CG2	ILE	M	84	257.532	96.770	20.628	1.00	72.68	MS13
ATOM	46403	CG1	ILE	M	84	255.831	98.258	19.673	1.00	72.68	MS13
ATOM	46404	CD1	ILE	M	84	256.354	99.503	20.363	1.00	72.68	MS13
ATOM	46405	C	ILE	M	84	253.954	96.010	19.445	1.00	100.91	MS13
ATOM	46406	O	ILE	M	84	253.617	96.725	18.498	1.00	100.91	MS13
ATOM	46407	N	GLY	M	85	253.082	95.392	20.241	1.00	98.35	MS13
ATOM	46408	CA	GLY	M	85	251.640	95.525	20.052	1.00	98.35	MS13
ATOM	46409	C	GLY	M	85	251.135	96.848	19.499	1.00	98.35	MS13
ATOM	46410	O	GLY	M	85	250.062	96.914	18.898	1.00	98.35	MS13
ATOM	46411	N	CYS	M	86	251.920	97.896	19.712	1.00	69.40	MS13



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ATOM	46412	CA	CYS	M	86	251.612	99.244	19.265	1.00	69.40	MS13
ATOM	46413	CB	CYS	M	86	252.901	99.934	18.825	1.00	112.05	MS13
ATOM	46414	SG	CYS	M	86	252.670	101.616	18.246	1.00	112.05	MS13
ATOM	46415	C	CYS	M	86	250.570	99.348	18.152	1.00	69.40	MS13
ATOM	46416	O	CYS	M	86	250.730	98.770	17.076	1.00	69.40	MS13
ATOM	46417	N	TYR	M	87	249.503	100.095	18.435	1.00	98.93	MS13
ATOM	46418	CA	TYR	M	87	248.408	100.329	17.492	1.00	98.93	MS13
ATOM	46419	CB	TYR	M	87	247.399	101.323	18.103	1.00	80.76	MS13
ATOM	46420	CG	TYR	M	87	246.338	101.845	17.149	1.00	80.76	MS13
ATOM	46421	CD1	TYR	M	87	245.354	100.998	16.627	1.00	80.76	MS13
ATOM	46422	CE1	TYR	M	87	244.386	101.474	15.734	1.00	80.76	MS13
ATOM	46423	CD2	TYR	M	87	246.327	103.186	16.756	1.00	80.76	MS13
ATOM	46424	CE2	TYR	M	87	245.366	103.671	15.865	1.00	80.76	MS13
ATOM	46425	CZ	TYR	M	87	244.403	102.809	15.359	1.00	80.76	MS13
ATOM	46426	OH	TYR	M	87	243.470	103.283	14.470	1.00	80.76	MS13
ATOM	46427	C	TYR	M	87	249.007	100.912	16.222	1.00	98.93	MS13
ATOM	46428	O	TYR	M	87	248.753	100.438	15.113	1.00	98.93	MS13
ATOM	46429	N	ARG	M	88	249.812	101.948	16.411	1.00	80.35	MS13
ATOM	46430	CA	ARG	M	88	250.480	102.628	15.315	1.00	80.35	MS13
ATOM	46431	CB	ARG	M	88	251.528	103.579	15.878	1.00	117.14	MS13
ATOM	46432	CG	ARG	M	88	252.050	104.594	14.903	1.00	117.14	MS13
ATOM	46433	CD	ARG	M	88	253.155	105.380	15.548	1.00	117.14	MS13
ATOM	46434	NE	ARG	M	88	253.523	106.553	14.771	1.00	117.14	MS13
ATOM	46435	CZ	ARG	M	88	254.561	107.330	15.059	1.00	117.14	MS13
ATOM	46436	NH1	ARG	M	88	255.327	107.044	16.104	1.00	117.14	MS13
ATOM	46437	NH2	ARG	M	88	254.828	108.395	14.311	1.00	117.14	MS13
ATOM	46438	C	ARG	M	88	251.146	101.586	14.427	1.00	80.35	MS13
ATOM	46439	O	ARG	M	88	251.178	101.722	13.205	1.00	80.35	MS13
ATOM	46440	N	GLY	M	89	251.683	100.544	15.050	1.00	85.29	MS13
ATOM	46441	CA	GLY	M	89	252.323	99.500	14.278	1.00	85.29	MS13
ATOM	46442	C	GLY	M	89	251.262	98.771	13.483	1.00	85.29	MS13
ATOM	46443	O	GLY	M	89	251.348	98.644	12.258	1.00	85.29	MS13
ATOM	46444	N	LEU	M	90	250.249	98.293	14.196	1.00	74.29	MS13
ATOM	46445	CA	LEU	M	90	249.146	97.579	13.578	1.00	74.29	MS13
ATOM	46446	CB	LEU	M	90	247.972	97.479	14.553	1.00	96.08	MS13
ATOM	46447	CG	LEU	M	90	248.264	96.822	15.907	1.00	96.08	MS13
ATOM	46448	CD1	LEU	M	90	247.077	97.026	16.839	1.00	96.08	MS13
ATOM	46449	CD2	LEU	M	90	248.563	95.341	15.711	1.00	96.08	MS13
ATOM	46450	C	LEU	M	90	248.721	98.347	12.341	1.00	74.29	MS13
ATOM	46451	O	LEU	M	90	248.599	97.768	11.266	1.00	74.29	MS13
ATOM	46452	N	ARG	M	91	248.513	99.654	12.494	1.00	68.17	MS13
ATOM	46453	CA	ARG	M	91	248.101	100.494	11.368	1.00	68.17	MS13
ATOM	46454	CB	ARG	M	91	248.089	101.972	11.766	1.00	85.35	MS13
ATOM	46455	CG	ARG	M	91	247.096	102.300	12.863	1.00	85.35	MS13
ATOM	46456	CD	ARG	M	91	245.711	101.785	12.522	1.00	85.35	MS13
ATOM	46457	NE	ARG	M	91	245.084	102.520	11.429	1.00	85.35	MS13
ATOM	46458	CZ	ARG	M	91	243.894	102.209	10.922	1.00	85.35	MS13
ATOM	46459	NH1	ARG	M	91	243.218	101.176	11.411	1.00	85.35	MS13
ATOM	46460	NH2	ARG	M	91	243.372	102.933	9.938	1.00	85.35	MS13
ATOM	46461	C	ARG	M	91	249.003	100.292	10.157	1.00	68.17	MS13
ATOM	46462	O	ARG	M	91	248.538	100.266	9.017	1.00	68.17	MS13
ATOM	46463	N	HIS	M	92	250.299	100.160	10.389	1.00	72.08	MS13
ATOM	46464	CA	HIS	M	92	251.179	99.926	9.269	1.00	72.08	MS13
ATOM	46465	CB	HIS	M	92	252.637	99.971	9.720	1.00	62.90	MS13
ATOM	46466	CG	HIS	M	92	253.177	101.363	9.832	1.00	62.90	MS13
ATOM	46467	CD2	HIS	M	92	253.512	102.109	10.911	1.00	62.90	MS13
ATOM	46468	ND1	HIS	M	92	253.365	102.175	8.734	1.00	62.90	MS13
ATOM	46469	CE1	HIS	M	92	253.789	103.363	9.132	1.00	62.90	MS13
ATOM	46470	NE2	HIS	M	92	253.886	103.349	10.449	1.00	62.90	MS13
ATOM	46471	C	HIS	M	92	250.794	98.568	8.692	1.00	72.08	MS13
ATOM	46472	O	HIS	M	92	250.399	98.484	7.535	1.00	72.08	MS13
ATOM	46473	N	ARG	M	93	250.864	97.517	9.508	1.00	79.87	MS13
ATOM	46474	CA	ARG	M	93	250.511	96.167	9.061	1.00	79.87	MS13
ATOM	46475	CB	ARG	M	93	250.285	95.245	10.252	1.00	139.11	MS13
ATOM	46476	CG	ARG	M	93	251.504	94.884	11.032	1.00	139.11	MS13
ATOM	46477	CD	ARG	M	93	251.055	94.269	12.322	1.00	139.11	MS13
ATOM	46478	NE	ARG	M	93	252.165	93.789	13.129	1.00	139.11	MS13
ATOM	46479	CZ	ARG	M	93	252.043	93.433	14.402	1.00	139.11	MS13
ATOM	46480	NH1	ARG	M	93	250.859	93.514	14.996	1.00	139.11	MS13
ATOM	46481	NH2	ARG	M	93	253.095	92.988	15.081	1.00	139.11	MS13
ATOM	46482	C	ARG	M	93	249.243	96.139	8.221	1.00	79.87	MS13
ATOM	46483	O	ARG	M	93	249.258	95.707	7.070	1.00	79.87	MS13
ATOM	46484	N	ARG	M	94	248.141	96.575	8.826	1.00	91.19	MS13
ATOM	46485	CA	ARG	M	94	246.842	96.595	8.164	1.00	91.19	MS13
ATOM	46486	CB	ARG	M	94	245.791	97.230	9.079	1.00	155.67	MS13
ATOM	46487	CG	ARG	M	94	245.159	96.256	10.050	1.00	155.67	MS13
ATOM	46488	CD	ARG	M	94	244.507	95.140	9.272	1.00	155.67	MS13



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ATOM	46489	NE	ARG	M	94	243.954	94.102	10.128	1.00155.67	MS13
ATOM	46490	CZ	ARG	M	94	243.516	92.931	9.675	1.00155.67	MS13
ATOM	46491	NH1	ARG	M	94	243.571	92.658	8.378	1.00155.67	MS13
ATOM	46492	NH2	ARG	M	94	243.027	92.031	10.517	1.00155.67	MS13
ATOM	46493	C	ARG	M	94	246.893	97.342	6.846	1.00 91.19	MS13
ATOM	46494	O	ARG	M	94	246.038	97.154	5.979	1.00 91.19	MS13
ATOM	46495	N	GLY	M	95	247.903	98.187	6.699	1.00 59.33	MS13
ATOM	46496	CA	GLY	M	95	248.041	98.952	5.480	1.00 59.33	MS13
ATOM	46497	C	GLY	M	95	247.167	100.191	5.466	1.00 59.33	MS13
ATOM	46498	O	GLY	M	95	247.156	100.923	4.479	1.00 59.33	MS13
ATOM	46499	N	LEU	M	96	246.435	100.432	6.552	1.00 60.32	MS13
ATOM	46500	CA	LEU	M	96	245.563	101.601	6.656	1.00 60.32	MS13
ATOM	46501	CB	LEU	M	96	244.412	101.284	7.598	1.00 74.00	MS13
ATOM	46502	CG	LEU	M	96	243.718	99.973	7.239	1.00 74.00	MS13
ATOM	46503	CD1	LEU	M	96	242.808	99.516	8.372	1.00 74.00	MS13
ATOM	46504	CD2	LEU	M	96	242.951	100.172	5.943	1.00 74.00	MS13
ATOM	46505	C	LEU	M	96	246.351	102.794	7.195	1.00 60.32	MS13
ATOM	46506	O	LEU	M	96	247.434	102.628	7.751	1.00 60.32	MS13
ATOM	46507	N	PRO	M	97	245.819	104.017	7.044	1.00 53.95	MS13
ATOM	46508	CD	PRO	M	97	244.495	104.406	6.534	1.00 59.07	MS13
ATOM	46509	CA	PRO	M	97	246.549	105.187	7.551	1.00 53.95	MS13
ATOM	46510	CB	PRO	M	97	245.640	106.359	7.181	1.00 59.07	MS13
ATOM	46511	CG	PRO	M	97	244.280	105.748	7.212	1.00 59.07	MS13
ATOM	46512	C	PRO	M	97	246.849	105.115	9.050	1.00 53.95	MS13
ATOM	46513	O	PRO	M	97	246.022	104.691	9.872	1.00 53.95	MS13
ATOM	46514	N	VAL	M	98	248.056	105.545	9.385	1.00 83.98	MS13
ATOM	46515	CA	VAL	M	98	248.544	105.522	10.750	1.00 83.98	MS13
ATOM	46516	CB	VAL	M	98	250.076	105.395	10.753	1.00115.67	MS13
ATOM	46517	CG1	VAL	M	98	250.587	105.366	12.173	1.00115.67	MS13
ATOM	46518	CG2	VAL	M	98	250.498	104.145	9.996	1.00115.67	MS13
ATOM	46519	C	VAL	M	98	248.171	106.740	11.584	1.00 83.98	MS13
ATOM	46520	O	VAL	M	98	247.701	106.610	12.708	1.00 83.98	MS13
ATOM	46521	N	ARG	M	99	248.381	107.919	11.017	1.00 62.68	MS13
ATOM	46522	CA	ARG	M	99	248.129	109.180	11.705	1.00 62.68	MS13
ATOM	46523	CB	ARG	M	99	248.820	110.303	10.938	1.00 86.46	MS13
ATOM	46524	CG	ARG	M	99	250.279	109.983	10.700	1.00 86.46	MS13
ATOM	46525	CD	ARG	M	99	251.091	111.189	10.313	1.00 86.46	MS13
ATOM	46526	NE	ARG	M	99	252.509	110.879	10.424	1.00 86.46	MS13
ATOM	46527	CZ	ARG	M	99	253.479	111.723	10.112	1.00 86.46	MS13
ATOM	46528	NH1	ARG	M	99	253.185	112.937	9.664	1.00 86.46	MS13
ATOM	46529	NH2	ARG	M	99	254.739	111.350	10.258	1.00 86.46	MS13
ATOM	46530	C	ARG	M	99	246.694	109.578	12.021	1.00 62.68	MS13
ATOM	46531	O	ARG	M	99	246.316	110.747	11.881	1.00 62.68	MS13
ATOM	46532	N	GLY	M	100	245.909	108.603	12.469	1.00 78.82	MS13
ATOM	46533	CA	GLY	M	100	244.523	108.843	12.840	1.00 78.82	MS13
ATOM	46534	C	GLY	M	100	243.670	109.683	11.909	1.00 78.82	MS13
ATOM	46535	O	GLY	M	100	243.606	110.905	12.034	1.00 78.82	MS13
ATOM	46536	N	GLN	M	101	243.003	109.023	10.974	1.00 97.79	MS13
ATOM	46537	CA	GLN	M	101	242.138	109.723	10.046	1.00 97.79	MS13
ATOM	46538	CB	GLN	M	101	242.861	109.972	8.726	1.00 76.64	MS13
ATOM	46539	CG	GLN	M	101	244.200	110.670	8.885	1.00 76.64	MS13
ATOM	46540	CD	GLN	M	101	245.394	109.748	8.626	1.00 76.64	MS13
ATOM	46541	OE1	GLN	M	101	245.453	108.620	9.135	1.00 76.64	MS13
ATOM	46542	NE2	GLN	M	101	246.360	110.234	7.839	1.00 76.64	MS13
ATOM	46543	C	GLN	M	101	240.903	108.873	9.816	1.00 97.79	MS13
ATOM	46544	O	GLN	M	101	240.657	107.897	10.542	1.00 97.79	MS13
ATOM	46545	N	ARG	M	102	240.117	109.256	8.817	1.00 77.13	MS13
ATOM	46546	CA	ARG	M	102	238.913	108.511	8.498	1.00 77.13	MS13
ATOM	46547	CB	ARG	M	102	237.883	109.419	7.840	1.00 91.74	MS13
ATOM	46548	CG	ARG	M	102	238.460	110.347	6.797	1.00 91.74	MS13
ATOM	46549	CD	ARG	M	102	237.345	111.034	6.021	1.00 91.74	MS13
ATOM	46550	NE	ARG	M	102	236.314	111.612	6.887	1.00 91.74	MS13
ATOM	46551	CZ	ARG	M	102	235.134	111.052	7.153	1.00 91.74	MS13
ATOM	46552	NH1	ARG	M	102	234.801	109.881	6.624	1.00 91.74	MS13
ATOM	46553	NH2	ARG	M	102	234.279	111.672	7.954	1.00 91.74	MS13
ATOM	46554	C	ARG	M	102	239.300	107.418	7.540	1.00 77.13	MS13
ATOM	46555	O	ARG	M	102	240.284	107.547	6.831	1.00 77.13	MS13
ATOM	46556	N	THR	M	103	238.549	106.331	7.527	1.00 64.88	MS13
ATOM	46557	CA	THR	M	103	238.860	105.263	6.598	1.00 64.88	MS13
ATOM	46558	CB	THR	M	103	239.602	104.093	7.291	1.00 95.52	MS13
ATOM	46559	OG1	THR	M	103	238.714	103.394	8.172	1.00 95.52	MS13
ATOM	46560	CG2	THR	M	103	240.787	104.621	8.077	1.00 95.52	MS13
ATOM	46561	C	THR	M	103	237.562	104.779	5.973	1.00 64.88	MS13
ATOM	46562	O	THR	M	103	237.465	103.655	5.470	1.00 64.88	MS13
ATOM	46563	N	ARG	M	104	236.558	105.647	6.023	1.00 51.35	MS13
ATOM	46564	CA	ARG	M	104	235.255	105.342	5.457	1.00 51.35	MS13
ATOM	46565	CB	ARG	M	104	234.135	105.984	6.272	1.00108.66	MS13



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ATOM	46566	CG	ARG	M	104	232.755	105.851	5.631	1.00108.66	MS13
ATOM	46567	CD	ARG	M	104	231.664	106.389	6.546	1.00108.66	MS13
ATOM	46568	NE	ARG	M	104	230.331	106.263	5.965	1.00108.66	MS13
ATOM	46569	CZ	ARG	M	104	229.205	106.507	6.629	1.00108.66	MS13
ATOM	46570	NH1	ARG	M	104	229.247	106.890	7.899	1.00108.66	MS13
ATOM	46571	NH2	ARG	M	104	228.034	106.369	6.024	1.00108.66	MS13
ATOM	46572	C	ARG	M	104	235.277	105.950	4.084	1.00 51.35	MS13
ATOM	46573	O	ARG	M	104	234.464	105.621	3.228	1.00 51.35	MS13
ATOM	46574	N	THR	M	105	236.210	106.866	3.885	1.00 66.07	MS13
ATOM	46575	CA	THR	M	105	236.339	107.487	2.590	1.00 66.07	MS13
ATOM	46576	CB	THR	M	105	235.511	108.796	2.498	1.00 60.14	MS13
ATOM	46577	OG1	THR	M	105	235.810	109.636	3.612	1.00 60.14	MS13
ATOM	46578	CG2	THR	M	105	234.018	108.488	2.492	1.00 60.14	MS13
ATOM	46579	C	THR	M	105	237.815	107.731	2.296	1.00 66.07	MS13
ATOM	46580	O	THR	M	105	238.654	106.892	2.628	1.00 66.07	MS13
ATOM	46581	N	ASN	M	106	238.123	108.857	1.663	1.00 87.31	MS13
ATOM	46582	CA	ASN	M	106	239.495	109.203	1.311	1.00 87.31	MS13
ATOM	46583	CB	ASN	M	106	239.674	110.718	1.331	1.00 88.11	MS13
ATOM	46584	CG	ASN	M	106	238.432	111.454	0.917	1.00 88.11	MS13
ATOM	46585	OD1	ASN	M	106	237.952	111.319	-0.209	1.00 88.11	MS13
ATOM	46586	ND2	ASN	M	106	237.896	112.244	1.832	1.00 88.11	MS13
ATOM	46587	C	ASN	M	106	240.548	108.589	2.232	1.00 87.31	MS13
ATOM	46588	O	ASN	M	106	240.611	108.914	3.422	1.00 87.31	MS13
ATOM	46589	N	ALA	M	107	241.375	107.714	1.670	1.00 64.33	MS13
ATOM	46590	CA	ALA	M	107	242.459	107.058	2.400	1.00 64.33	MS13
ATOM	46591	CB	ALA	M	107	241.926	106.131	3.473	1.00 49.42	MS13
ATOM	46592	C	ALA	M	107	243.128	106.252	1.335	1.00 64.33	MS13
ATOM	46593	O	ALA	M	107	243.906	105.339	1.606	1.00 64.33	MS13
ATOM	46594	N	ARG	M	108	242.792	106.605	0.107	1.00 92.25	MS13
ATOM	46595	CA	ARG	M	108	243.307	105.922	-1.053	1.00 92.25	MS13
ATOM	46596	CB	ARG	M	108	242.741	106.572	-2.315	1.00 66.86	MS13
ATOM	46597	CG	ARG	M	108	241.215	106.593	-2.344	1.00 66.86	MS13
ATOM	46598	CD	ARG	M	108	240.567	105.331	-1.713	1.00 66.86	MS13
ATOM	46599	NE	ARG	M	108	241.184	104.078	-2.139	1.00 66.86	MS13
ATOM	46600	CZ	ARG	M	108	240.661	102.877	-1.917	1.00 66.86	MS13
ATOM	46601	NH1	ARG	M	108	239.506	102.764	-1.280	1.00 66.86	MS13
ATOM	46602	NH2	ARG	M	108	241.295	101.788	-2.324	1.00 66.86	MS13
ATOM	46603	C	ARG	M	108	244.818	105.897	-1.111	1.00 92.25	MS13
ATOM	46604	O	ARG	M	108	245.432	104.835	-1.215	1.00 92.25	MS13
ATOM	46605	N	THR	M	109	245.414	107.075	-1.034	1.00 61.70	MS13
ATOM	46606	CA	THR	M	109	246.857	107.190	-1.109	1.00 61.70	MS13
ATOM	46607	CB	THR	M	109	247.286	108.591	-0.658	1.00 59.43	MS13
ATOM	46608	OG1	THR	M	109	248.633	108.842	-1.065	1.00 59.43	MS13
ATOM	46609	CG2	THR	M	109	247.183	108.706	0.830	1.00 59.43	MS13
ATOM	46610	C	THR	M	109	247.559	106.108	-0.280	1.00 61.70	MS13
ATOM	46611	O	THR	M	109	248.457	105.432	-0.765	1.00 61.70	MS13
ATOM	46612	N	ARG	M	110	247.122	105.918	0.956	1.00 65.05	MS13
ATOM	46613	CA	ARG	M	110	247.728	104.925	1.836	1.00 65.05	MS13
ATOM	46614	CB	ARG	M	110	247.688	105.435	3.289	1.00 73.49	MS13
ATOM	46615	CG	ARG	M	110	248.345	104.514	4.295	1.00 73.49	MS13
ATOM	46616	CD	ARG	M	110	249.463	105.214	5.041	1.00 73.49	MS13
ATOM	46617	NE	ARG	M	110	250.615	104.337	5.252	1.00 73.49	MS13
ATOM	46618	CZ	ARG	M	110	250.574	103.170	5.895	1.00 73.49	MS13
ATOM	46619	NH1	ARG	M	110	249.436	102.719	6.402	1.00 73.49	MS13
ATOM	46620	NH2	ARG	M	110	251.680	102.446	6.034	1.00 73.49	MS13
ATOM	46621	C	ARG	M	110	246.999	103.591	1.737	1.00 65.05	MS13
ATOM	46622	O	ARG	M	110	247.344	102.643	2.428	1.00 65.05	MS13
ATOM	46623	N	LYS	M	111	246.011	103.513	0.852	1.00 81.01	MS13
ATOM	46624	CA	LYS	M	111	245.203	102.304	0.720	1.00 81.01	MS13
ATOM	46625	CB	LYS	M	111	243.754	102.670	1.043	1.00 73.92	MS13
ATOM	46626	CG	LYS	M	111	242.826	101.511	1.319	1.00 73.92	MS13
ATOM	46627	CD	LYS	M	111	241.478	102.043	1.764	1.00 73.92	MS13
ATOM	46628	CE	LYS	M	111	240.469	100.942	1.958	1.00 73.92	MS13
ATOM	46629	NZ	LYS	M	111	239.180	101.539	2.395	1.00 73.92	MS13
ATOM	46630	C	LYS	M	111	245.272	101.576	-0.629	1.00 81.01	MS13
ATOM	46631	O	LYS	M	111	244.956	100.387	-0.718	1.00 81.01	MS13
ATOM	46632	N	GLY	M	112	245.676	102.285	-1.676	1.00 65.32	MS13
ATOM	46633	CA	GLY	M	112	245.769	101.673	-2.988	1.00 65.32	MS13
ATOM	46634	C	GLY	M	112	244.645	102.125	-3.897	1.00 65.32	MS13
ATOM	46635	O	GLY	M	112	243.982	103.121	-3.613	1.00 65.32	MS13
ATOM	46636	N	PRO	M	113	244.422	101.427	-5.021	1.00 74.89	MS13
ATOM	46637	CD	PRO	M	113	245.425	100.557	-5.653	1.00108.85	MS13
ATOM	46638	CA	PRO	M	113	243.357	101.764	-5.977	1.00 74.89	MS13
ATOM	46639	CB	PRO	M	113	243.772	101.012	-7.236	1.00108.85	MS13
ATOM	46640	CG	PRO	M	113	245.270	100.919	-7.101	1.00108.85	MS13
ATOM	46641	C	PRO	M	113	241.987	101.314	-5.470	1.00 74.89	MS13
ATOM	46642	O	PRO	M	113	241.873	100.328	-4.734	1.00 74.89	MS13



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ATOM	46643	N	ARG	M	114	240.947	102.033	-5.878	1.00	92.27	MS13
ATOM	46644	CA	ARG	M	114	239.590	101.713	-5.449	1.00	92.27	MS13
ATOM	46645	CB	ARG	M	114	238.609	102.749	-6.000	1.00	83.91	MS13
ATOM	46646	CG	ARG	M	114	237.524	103.177	-5.007	1.00	83.91	MS13
ATOM	46647	CD	ARG	M	114	236.691	104.325	-5.563	1.00	83.91	MS13
ATOM	46648	NE	ARG	M	114	237.516	105.491	-5.843	1.00	83.91	MS13
ATOM	46649	CZ	ARG	M	114	237.981	106.313	-4.915	1.00	83.91	MS13
ATOM	46650	NH1	ARG	M	114	237.687	106.090	-3.641	1.00	83.91	MS13
ATOM	46651	NH2	ARG	M	114	238.747	107.344	-5.265	1.00	83.91	MS13
ATOM	46652	C	ARG	M	114	239.211	100.319	-5.916	1.00	92.27	MS13
ATOM	46653	O	ARG	M	114	239.201	100.033	-7.107	1.00	92.27	MS13
ATOM	46654	N	LYS	M	115	238.896	99.454	-4.965	1.00	64.16	MS13
ATOM	46655	CA	LYS	M	115	238.541	98.080	-5.276	1.00	64.16	MS13
ATOM	46656	CB	LYS	M	115	239.286	97.160	-4.321	1.00	87.14	MS13
ATOM	46657	CG	LYS	M	115	240.787	97.365	-4.374	1.00	87.14	MS13
ATOM	46658	CD	LYS	M	115	241.404	97.374	-2.991	1.00	87.14	MS13
ATOM	46659	CE	LYS	M	115	240.945	96.178	-2.193	1.00	87.14	MS13
ATOM	46660	NZ	LYS	M	115	241.150	94.923	-2.966	1.00	87.14	MS13
ATOM	46661	C	LYS	M	115	237.044	97.816	-5.190	1.00	64.16	MS13
ATOM	46662	O	LYS	M	115	236.599	97.019	-4.367	1.00	64.16	MS13
ATOM	46663	N	THR	M	116	236.278	98.483	-6.051	1.00	53.82	MS13
ATOM	46664	CA	THR	M	116	234.817	98.350	-6.094	1.00	53.82	MS13
ATOM	46665	CB	THR	M	116	234.252	98.841	-7.452	1.00	83.72	MS13
ATOM	46666	OG1	THR	M	116	234.725	100.168	-7.734	1.00	83.72	MS13
ATOM	46667	CG2	THR	M	116	232.744	98.852	-7.411	1.00	83.72	MS13
ATOM	46668	C	THR	M	116	234.355	96.907	-5.869	1.00	53.82	MS13
ATOM	46669	O	THR	M	116	235.024	95.964	-6.292	1.00	53.82	MS13
ATOM	46670	N	VAL	M	117	233.214	96.752	-5.196	1.00	70.76	MS13
ATOM	46671	CA	VAL	M	117	232.632	95.443	-4.874	1.00	70.76	MS13
ATOM	46672	CB	VAL	M	117	232.761	95.125	-3.361	1.00	87.41	MS13
ATOM	46673	CG1	VAL	M	117	232.328	93.689	-3.082	1.00	87.41	MS13
ATOM	46674	CG2	VAL	M	117	234.186	95.366	-2.892	1.00	87.41	MS13
ATOM	46675	C	VAL	M	117	231.147	95.528	-5.193	1.00	70.76	MS13
ATOM	46676	O	VAL	M	117	230.689	96.554	-5.678	1.00	70.76	MS13
ATOM	46677	N	ALA	M	118	230.394	94.465	-4.917	1.00	96.37	MS13
ATOM	46678	CA	ALA	M	118	228.955	94.474	-5.158	1.00	96.37	MS13
ATOM	46679	CB	ALA	M	118	228.399	93.083	-4.968	1.00	97.64	MS13
ATOM	46680	C	ALA	M	118	228.308	95.452	-4.161	1.00	96.37	MS13
ATOM	46681	O	ALA	M	118	228.987	95.939	-3.252	1.00	96.37	MS13
ATOM	46682	N	GLY	M	119	227.015	95.746	-4.317	1.00	101.55	MS13
ATOM	46683	CA	GLY	M	119	226.378	96.678	-3.396	1.00	101.55	MS13
ATOM	46684	C	GLY	M	119	224.858	96.742	-3.352	1.00	101.55	MS13
ATOM	46685	O	GLY	M	119	224.175	96.098	-4.148	1.00	101.55	MS13
ATOM	46686	N	LYS	M	120	224.337	97.525	-2.404	1.00	146.20	MS13
ATOM	46687	CA	LYS	M	120	222.895	97.722	-2.208	1.00	146.20	MS13
ATOM	46688	CB	LYS	M	120	222.551	97.581	-0.725	1.00	159.27	MS13
ATOM	46689	CG	LYS	M	120	221.126	97.964	-0.368	1.00	159.27	MS13
ATOM	46690	CD	LYS	M	120	220.905	97.881	1.136	1.00	159.27	MS13
ATOM	46691	CE	LYS	M	120	219.557	98.457	1.538	1.00	159.27	MS13
ATOM	46692	NZ	LYS	M	120	219.374	98.425	3.015	1.00	159.27	MS13
ATOM	46693	C	LYS	M	120	222.510	99.120	-2.704	1.00	146.20	MS13
ATOM	46694	O	LYS	M	120	223.047	100.121	-2.226	1.00	146.20	MS13
ATOM	46695	N	LYS	M	121	221.557	99.181	-3.634	1.00	87.77	MS13
ATOM	46696	CA	LYS	M	121	221.137	100.446	-4.256	1.00	87.77	MS13
ATOM	46697	CB	LYS	M	121	220.807	100.201	-5.738	1.00	171.41	MS13
ATOM	46698	CG	LYS	M	121	221.944	99.613	-6.593	1.00	171.41	MS13
ATOM	46699	CD	LYS	M	121	222.014	98.086	-6.506	1.00	171.41	MS13
ATOM	46700	CE	LYS	M	121	223.022	97.512	-7.500	1.00	171.41	MS13
ATOM	46701	NZ	LYS	M	121	223.088	96.022	-7.449	1.00	171.41	MS13
ATOM	46702	C	LYS	M	121	220.008	101.296	-3.648	1.00	87.77	MS13
ATOM	46703	O	LYS	M	121	220.268	102.184	-2.833	1.00	87.77	MS13
ATOM	46704	N	LYS	M	122	218.769	101.051	-4.084	1.00	198.94	MS13
ATOM	46705	CA	LYS	M	122	217.612	101.814	-3.605	1.00	198.94	MS13
ATOM	46706	CB	LYS	M	122	216.289	101.144	-4.003	1.00	106.74	MS13
ATOM	46707	CG	LYS	M	122	215.032	101.760	-3.343	1.00	106.74	MS13
ATOM	46708	CD	LYS	M	122	214.851	103.258	-3.630	1.00	106.74	MS13
ATOM	46709	CE	LYS	M	122	213.609	103.800	-2.921	1.00	106.74	MS13
ATOM	46710	NZ	LYS	M	122	213.353	105.244	-3.171	1.00	106.74	MS13
ATOM	46711	C	LYS	M	122	217.642	102.026	-2.106	1.00	198.94	MS13
ATOM	46712	O	LYS	M	122	217.406	101.108	-1.318	1.00	198.94	MS13
ATOM	46713	N	ALA	M	123	217.927	103.270	-1.748	1.00	198.94	MS13
ATOM	46714	CA	ALA	M	123	218.044	103.747	-0.377	1.00	198.94	MS13
ATOM	46715	CB	ALA	M	123	218.535	102.632	0.565	1.00	139.31	MS13
ATOM	46716	C	ALA	M	123	219.112	104.822	-0.528	1.00	198.94	MS13
ATOM	46717	O	ALA	M	123	220.163	104.764	0.116	1.00	198.94	MS13
ATOM	46718	N	PRO	M	124	218.848	105.821	-1.394	1.00	198.94	MS13
ATOM	46719	CD	PRO	M	124	217.473	106.192	-1.792	1.00	173.78	MS13



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ATOM	46720	CA	PRO	M	124	219.758	106.932	-1.676	1.00198.94	MS13
ATOM	46721	CB	PRO	M	124	218.859	108.138	-1.472	1.00173.78	MS13
ATOM	46722	CG	PRO	M	124	217.614	107.677	-2.190	1.00173.78	MS13
ATOM	46723	C	PRO	M	124	221.063	106.981	-0.877	1.00198.94	MS13
ATOM	46724	O	PRO	M	124	221.193	107.718	0.108	1.00198.94	MS13
ATOM	46725	N	ARG	M	125	222.025	106.173	-1.323	1.00198.94	MS13
ATOM	46726	CA	ARG	M	125	223.342	106.106	-0.701	1.00198.94	MS13
ATOM	46727	CB	ARG	M	125	224.116	104.855	-1.183	1.00124.51	MS13
ATOM	46728	CG	ARG	M	125	224.070	104.552	-2.680	1.00124.51	MS13
ATOM	46729	CD	ARG	M	125	224.857	105.549	-3.514	1.00124.51	MS13
ATOM	46730	NE	ARG	M	125	224.811	105.196	-4.928	1.00124.51	MS13
ATOM	46731	CZ	ARG	M	125	223.699	105.155	-5.653	1.00124.51	MS13
ATOM	46732	NH1	ARG	M	125	222.530	105.454	-5.100	1.00124.51	MS13
ATOM	46733	NH2	ARG	M	125	223.756	104.795	-6.929	1.00124.51	MS13
ATOM	46734	C	ARG	M	125	224.114	107.377	-1.034	1.00198.94	MS13
ATOM	46735	O	ARG	M	125	225.276	107.533	-0.660	1.00198.94	MS13
ATOM	46736	N	LYS	M	126	223.443	108.286	-1.737	1.00198.66	MS13
ATOM	46737	CA	LYS	M	126	224.038	109.552	-2.132	1.00198.66	MS13
ATOM	46738	CB	LYS	M	126	223.007	110.425	-2.867	1.00149.86	MS13
ATOM	46739	CG	LYS	M	126	222.391	109.783	-4.115	1.00149.86	MS13
ATOM	46740	CD	LYS	M	126	221.291	110.656	-4.709	1.00149.86	MS13
ATOM	46741	CE	LYS	M	126	220.536	109.926	-5.813	1.00149.86	MS13
ATOM	46742	NZ	LYS	M	126	219.396	110.733	-6.337	1.00149.86	MS13
ATOM	46743	C	LYS	M	126	224.531	110.270	-0.887	1.00198.66	MS13
ATOM	46744	O	LYS	M	126	224.999	111.418	-1.021	1.00198.66	MS13
ATOM	46745	OXT	LYS	M	126	224.442	109.674	0.208	1.00178.83	MS13
TER	46745		LYS	M	126					MS13
ATOM	46746	CB	ALA	N	2	216.142	119.526	28.282	1.00 59.02	NS14
ATOM	46747	C	ALA	N	2	216.336	117.297	29.395	1.00117.30	NS14
ATOM	46748	O	ALA	N	2	215.149	116.957	29.314	1.00117.30	NS14
ATOM	46749	N	ALA	N	2	217.070	117.592	27.050	1.00117.30	NS14
ATOM	46750	CA	ALA	N	2	216.964	118.240	28.381	1.00117.30	NS14
ATOM	46751	N	ARG	N	3	217.154	116.880	30.351	1.00116.69	NS14
ATOM	46752	CA	ARG	N	3	216.723	115.991	31.412	1.00116.69	NS14
ATOM	46753	CB	ARG	N	3	217.346	114.623	31.222	1.00 86.60	NS14
ATOM	46754	CG	ARG	N	3	216.968	113.979	29.924	1.00 86.60	NS14
ATOM	46755	CD	ARG	N	3	218.121	113.144	29.434	1.00 86.60	NS14
ATOM	46756	NE	ARG	N	3	218.753	112.409	30.526	1.00 86.60	NS14
ATOM	46757	CZ	ARG	N	3	219.919	111.778	30.420	1.00 86.60	NS14
ATOM	46758	NH1	ARG	N	3	220.589	111.789	29.270	1.00 86.60	NS14
ATOM	46759	NH2	ARG	N	3	220.419	111.141	31.468	1.00 86.60	NS14
ATOM	46760	C	ARG	N	3	217.171	116.566	32.744	1.00116.69	NS14
ATOM	46761	O	ARG	N	3	218.335	116.940	32.904	1.00116.69	NS14
ATOM	46762	N	LYS	N	4	216.245	116.652	33.694	1.00115.95	NS14
ATOM	46763	CA	LYS	N	4	216.577	117.175	35.008	1.00115.95	NS14
ATOM	46764	CB	LYS	N	4	215.526	116.748	36.041	1.00124.91	NS14
ATOM	46765	CG	LYS	N	4	214.275	117.623	36.104	1.00124.91	NS14
ATOM	46766	CD	LYS	N	4	213.410	117.219	37.295	1.00124.91	NS14
ATOM	46767	CE	LYS	N	4	212.360	118.268	37.644	1.00124.91	NS14
ATOM	46768	NZ	LYS	N	4	211.590	117.902	38.879	1.00124.91	NS14
ATOM	46769	C	LYS	N	4	217.931	116.591	35.379	1.00115.95	NS14
ATOM	46770	O	LYS	N	4	218.905	117.317	35.583	1.00115.95	NS14
ATOM	46771	N	ALA	N	5	217.980	115.264	35.428	1.00 80.17	NS14
ATOM	46772	CA	ALA	N	5	219.193	114.540	35.767	1.00 80.17	NS14
ATOM	46773	CB	ALA	N	5	219.023	113.058	35.429	1.00 83.47	NS14
ATOM	46774	C	ALA	N	5	220.412	115.104	35.048	1.00 80.17	NS14
ATOM	46775	O	ALA	N	5	221.447	115.344	35.670	1.00 80.17	NS14
ATOM	46776	N	LEU	N	6	220.287	115.320	33.741	1.00160.54	NS14
ATOM	46777	CA	LEU	N	6	221.398	115.847	32.957	1.00160.54	NS14
ATOM	46778	CB	LEU	N	6	221.183	115.618	31.462	1.00129.09	NS14
ATOM	46779	CG	LEU	N	6	221.974	114.440	30.893	1.00129.09	NS14
ATOM	46780	CD1	LEU	N	6	221.854	114.442	29.380	1.00129.09	NS14
ATOM	46781	CD2	LEU	N	6	223.440	114.545	31.311	1.00129.09	NS14
ATOM	46782	C	LEU	N	6	221.697	117.311	33.190	1.00160.54	NS14
ATOM	46783	O	LEU	N	6	222.731	117.805	32.746	1.00160.54	NS14
ATOM	46784	N	ILE	N	7	220.799	118.022	33.858	1.00112.53	NS14
ATOM	46785	CA	ILE	N	7	221.083	119.417	34.132	1.00112.53	NS14
ATOM	46786	CB	ILE	N	7	219.830	120.288	34.096	1.00 51.52	NS14
ATOM	46787	CG2	ILE	N	7	220.247	121.757	34.020	1.00 51.52	NS14
ATOM	46788	CG1	ILE	N	7	218.997	119.945	32.861	1.00 51.52	NS14
ATOM	46789	CD1	ILE	N	7	217.978	121.005	32.505	1.00 51.52	NS14
ATOM	46790	C	ILE	N	7	221.741	119.480	35.506	1.00112.53	NS14
ATOM	46791	O	ILE	N	7	221.187	119.991	36.484	1.00112.53	NS14
ATOM	46792	N	GLU	N	8	222.937	118.906	35.546	1.00107.07	NS14
ATOM	46793	CA	GLU	N	8	223.772	118.841	36.729	1.00107.07	NS14
ATOM	46794	CB	GLU	N	8	224.402	117.451	36.829	1.00130.91	NS14
ATOM	46795	CG	GLU	N	8	225.426	117.162	35.722	1.00130.91	NS14



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ATOM	46796	CD	GLU	N	8	225.452	115.698	35.279	1.00130.91	NS14
ATOM	46797	OE1	GLU	N	8	225.569	114.802	36.146	1.00130.91	NS14
ATOM	46798	OE2	GLU	N	8	225.364	115.442	34.056	1.00130.91	NS14
ATOM	46799	C	GLU	N	8	224.851	119.876	36.472	1.00107.07	NS14
ATOM	46800	O	GLU	N	8	225.757	120.056	37.274	1.00107.07	NS14
ATOM	46801	N	LYS	N	9	224.742	120.544	35.328	1.00100.45	NS14
ATOM	46802	CA	LYS	N	9	225.703	121.560	34.930	1.00100.45	NS14
ATOM	46803	CB	LYS	N	9	225.214	122.295	33.678	1.00110.44	NS14
ATOM	46804	CG	LYS	N	9	226.280	123.147	32.986	1.00110.44	NS14
ATOM	46805	CD	LYS	N	9	226.774	124.303	33.858	1.00110.44	NS14
ATOM	46806	CE	LYS	N	9	227.984	125.000	33.248	1.00110.44	NS14
ATOM	46807	NZ	LYS	N	9	228.587	125.970	34.199	1.00110.44	NS14
ATOM	46808	C	LYS	N	9	225.912	122.559	36.055	1.00100.45	NS14
ATOM	46809	O	LYS	N	9	227.049	122.913	36.386	1.00100.45	NS14
ATOM	46810	N	ALA	N	10	224.812	123.014	36.641	1.00163.14	NS14
ATOM	46811	CA	ALA	N	10	224.882	123.983	37.724	1.00163.14	NS14
ATOM	46812	CB	ALA	N	10	223.475	124.360	38.171	1.00115.49	NS14
ATOM	46813	C	ALA	N	10	225.694	123.461	38.910	1.00163.14	NS14
ATOM	46814	O	ALA	N	10	226.011	124.221	39.828	1.00163.14	NS14
ATOM	46815	N	LYS	N	11	226.036	122.173	38.881	1.00197.79	NS14
ATOM	46816	CA	LYS	N	11	226.807	121.553	39.961	1.00197.79	NS14
ATOM	46817	CB	LYS	N	11	226.923	120.031	39.766	1.00123.72	NS14
ATOM	46818	CG	LYS	N	11	225.748	119.212	40.287	1.00123.72	NS14
ATOM	46819	CD	LYS	N	11	226.016	117.710	40.179	1.00123.72	NS14
ATOM	46820	CE	LYS	N	11	224.776	116.897	40.573	1.00123.72	NS14
ATOM	46821	NZ	LYS	N	11	224.905	115.421	40.343	1.00123.72	NS14
ATOM	46822	C	LYS	N	11	228.215	122.101	40.129	1.00197.79	NS14
ATOM	46823	O	LYS	N	11	228.930	121.655	41.025	1.00197.79	NS14
ATOM	46824	N	ARG	N	12	228.614	123.064	39.299	1.00139.12	NS14
ATOM	46825	CA	ARG	N	12	229.972	123.602	39.384	1.00139.12	NS14
ATOM	46826	CB	ARG	N	12	230.216	124.289	40.733	1.00186.90	NS14
ATOM	46827	CG	ARG	N	12	229.356	125.507	40.991	1.00186.90	NS14
ATOM	46828	CD	ARG	N	12	229.731	126.643	40.062	1.00186.90	NS14
ATOM	46829	NE	ARG	N	12	228.887	127.815	40.278	1.00186.90	NS14
ATOM	46830	CZ	ARG	N	12	229.037	128.973	39.642	1.00186.90	NS14
ATOM	46831	NH1	ARG	N	12	230.003	129.122	38.744	1.00186.90	NS14
ATOM	46832	NH2	ARG	N	12	228.216	129.984	39.903	1.00186.90	NS14
ATOM	46833	C	ARG	N	12	230.850	122.366	39.289	1.00139.12	NS14
ATOM	46834	O	ARG	N	12	231.256	121.963	38.201	1.00139.12	NS14
ATOM	46835	N	THR	N	13	231.102	121.770	40.453	1.00129.26	NS14
ATOM	46836	CA	THR	N	13	231.890	120.553	40.610	1.00129.26	NS14
ATOM	46837	CB	THR	N	13	231.097	119.483	41.399	1.00198.94	NS14
ATOM	46838	OG1	THR	N	13	230.592	120.057	42.613	1.00198.94	NS14
ATOM	46839	CG2	THR	N	13	231.994	118.295	41.741	1.00198.94	NS14
ATOM	46840	C	THR	N	13	232.301	119.957	39.277	1.00129.26	NS14
ATOM	46841	O	THR	N	13	231.878	118.862	38.908	1.00129.26	NS14
ATOM	46842	N	PRO	N	14	233.140	120.674	38.531	1.00183.39	NS14
ATOM	46843	CD	PRO	N	14	233.886	121.912	38.821	1.00131.61	NS14
ATOM	46844	CA	PRO	N	14	233.540	120.113	37.250	1.00183.39	NS14
ATOM	46845	CB	PRO	N	14	234.280	121.272	36.604	1.00131.61	NS14
ATOM	46846	CG	PRO	N	14	234.978	121.885	37.774	1.00131.61	NS14
ATOM	46847	C	PRO	N	14	234.444	118.922	37.510	1.00183.39	NS14
ATOM	46848	O	PRO	N	14	234.654	118.080	36.637	1.00183.39	NS14
ATOM	46849	N	LYS	N	15	234.964	118.853	38.732	1.00109.27	NS14
ATOM	46850	CA	LYS	N	15	235.887	117.800	39.110	1.00109.27	NS14
ATOM	46851	CB	LYS	N	15	235.306	116.424	38.774	1.00103.64	NS14
ATOM	46852	CG	LYS	N	15	236.037	115.270	39.443	1.00103.64	NS14
ATOM	46853	CD	LYS	N	15	235.340	113.933	39.199	1.00103.64	NS14
ATOM	46854	CE	LYS	N	15	235.957	112.797	40.029	1.00103.64	NS14
ATOM	46855	NZ	LYS	N	15	237.381	112.485	39.686	1.00103.64	NS14
ATOM	46856	C	LYS	N	15	237.138	118.090	38.279	1.00109.27	NS14
ATOM	46857	O	LYS	N	15	238.234	117.653	38.609	1.00109.27	NS14
ATOM	46858	N	PHE	N	16	236.937	118.850	37.202	1.00 76.06	NS14
ATOM	46859	CA	PHE	N	16	237.970	119.296	36.265	1.00 76.06	NS14
ATOM	46860	CB	PHE	N	16	238.355	118.199	35.278	1.00 94.02	NS14
ATOM	46861	CG	PHE	N	16	238.816	116.937	35.929	1.00 94.02	NS14
ATOM	46862	CD1	PHE	N	16	237.948	115.851	36.065	1.00 94.02	NS14
ATOM	46863	CD2	PHE	N	16	240.117	116.826	36.411	1.00 94.02	NS14
ATOM	46864	CE1	PHE	N	16	238.369	114.665	36.670	1.00 94.02	NS14
ATOM	46865	CE2	PHE	N	16	240.551	115.652	37.017	1.00 94.02	NS14
ATOM	46866	CZ	PHE	N	16	239.672	114.564	37.146	1.00 94.02	NS14
ATOM	46867	C	PHE	N	16	237.286	120.419	35.506	1.00 76.06	NS14
ATOM	46868	O	PHE	N	16	236.274	120.193	34.857	1.00 76.06	NS14
ATOM	46869	N	LYS	N	17	237.846	121.619	35.579	1.00112.99	NS14
ATOM	46870	CA	LYS	N	17	237.259	122.795	34.939	1.00112.99	NS14
ATOM	46871	CB	LYS	N	17	238.207	123.992	35.125	1.00115.11	NS14
ATOM	46872	CG	LYS	N	17	239.223	124.224	34.011	1.00115.11	NS14



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ATOM	46873	CD	LYS	N	17	238.716	125.273	33.032	1.00115.11	NS14
ATOM	46874	CE	LYS	N	17	238.359	126.570	33.755	1.00115.11	NS14
ATOM	46875	NZ	LYS	N	17	237.732	127.575	32.853	1.00115.11	NS14
ATOM	46876	C	LYS	N	17	236.812	122.701	33.470	1.00112.99	NS14
ATOM	46877	O	LYS	N	17	235.995	123.511	33.027	1.00112.99	NS14
ATOM	46878	N	VAL	N	18	237.318	121.727	32.718	1.00141.77	NS14
ATOM	46879	CA	VAL	N	18	236.940	121.603	31.307	1.00141.77	NS14
ATOM	46880	CB	VAL	N	18	238.012	120.845	30.498	1.00 68.42	NS14
ATOM	46881	CG1	VAL	N	18	239.243	121.712	30.367	1.00 68.42	NS14
ATOM	46882	CG2	VAL	N	18	238.347	119.513	31.174	1.00 68.42	NS14
ATOM	46883	C	VAL	N	18	235.590	120.951	31.026	1.00141.77	NS14
ATOM	46884	O	VAL	N	18	234.977	121.206	29.984	1.00141.77	NS14
ATOM	46885	N	ARG	N	19	235.126	120.109	31.942	1.00 65.25	NS14
ATOM	46886	CA	ARG	N	19	233.845	119.445	31.755	1.00 65.25	NS14
ATOM	46887	CB	ARG	N	19	233.692	118.288	32.742	1.00 68.61	NS14
ATOM	46888	CG	ARG	N	19	234.785	117.243	32.677	1.00 68.61	NS14
ATOM	46889	CD	ARG	N	19	234.416	116.063	33.557	1.00 68.61	NS14
ATOM	46890	NE	ARG	N	19	235.362	114.954	33.475	1.00 68.61	NS14
ATOM	46891	CZ	ARG	N	19	235.220	113.798	34.127	1.00 68.61	NS14
ATOM	46892	NH1	ARG	N	19	234.169	113.592	34.915	1.00 68.61	NS14
ATOM	46893	NH2	ARG	N	19	236.126	112.838	33.988	1.00 68.61	NS14
ATOM	46894	C	ARG	N	19	232.677	120.418	31.933	1.00 65.25	NS14
ATOM	46895	O	ARG	N	19	231.556	119.990	32.185	1.00 65.25	NS14
ATOM	46896	N	ALA	N	20	232.939	121.718	31.794	1.00113.91	NS14
ATOM	46897	CA	ALA	N	20	231.901	122.742	31.946	1.00113.91	NS14
ATOM	46898	CB	ALA	N	20	232.518	124.018	32.457	1.00 71.59	NS14
ATOM	46899	C	ALA	N	20	231.204	123.013	30.622	1.00113.91	NS14
ATOM	46900	O	ALA	N	20	231.860	123.030	29.583	1.00113.91	NS14
ATOM	46901	N	TYR	N	21	229.886	123.232	30.651	1.00 96.02	NS14
ATOM	46902	CA	TYR	N	21	229.152	123.505	29.412	1.00 96.02	NS14
ATOM	46903	CB	TYR	N	21	228.887	122.214	28.639	1.00 79.55	NS14
ATOM	46904	CG	TYR	N	21	227.904	121.263	29.276	1.00 79.55	NS14
ATOM	46905	CD1	TYR	N	21	228.342	120.240	30.113	1.00 79.55	NS14
ATOM	46906	CE1	TYR	N	21	227.458	119.300	30.621	1.00 79.55	NS14
ATOM	46907	CD2	TYR	N	21	226.542	121.333	28.974	1.00 79.55	NS14
ATOM	46908	CE2	TYR	N	21	225.649	120.397	29.476	1.00 79.55	NS14
ATOM	46909	CZ	TYR	N	21	226.116	119.379	30.295	1.00 79.55	NS14
ATOM	46910	OH	TYR	N	21	225.255	118.407	30.749	1.00 79.55	NS14
ATOM	46911	C	TYR	N	21	227.842	124.276	29.509	1.00 96.02	NS14
ATOM	46912	O	TYR	N	21	227.037	124.069	30.411	1.00 96.02	NS14
ATOM	46913	N	THR	N	22	227.641	125.137	28.517	1.00127.51	NS14
ATOM	46914	CA	THR	N	22	226.483	126.014	28.392	1.00127.51	NS14
ATOM	46915	CB	THR	N	22	226.361	126.510	26.935	1.00 98.22	NS14
ATOM	46916	OG1	THR	N	22	226.578	125.415	26.031	1.00 98.22	NS14
ATOM	46917	CG2	THR	N	22	227.373	127.615	26.664	1.00 98.22	NS14
ATOM	46918	C	THR	N	22	225.087	125.577	28.860	1.00127.51	NS14
ATOM	46919	O	THR	N	22	224.712	125.828	30.007	1.00127.51	NS14
ATOM	46920	N	ARG	N	23	224.325	124.944	27.967	1.00 73.62	NS14
ATOM	46921	CA	ARG	N	23	222.936	124.522	28.231	1.00 73.62	NS14
ATOM	46922	CB	ARG	N	23	222.818	123.669	29.490	1.00 79.79	NS14
ATOM	46923	CG	ARG	N	23	222.997	122.211	29.225	1.00 79.79	NS14
ATOM	46924	CD	ARG	N	23	222.455	121.378	30.355	1.00 79.79	NS14
ATOM	46925	NE	ARG	N	23	222.842	119.984	30.189	1.00 79.79	NS14
ATOM	46926	CZ	ARG	N	23	222.522	119.240	29.136	1.00 79.79	NS14
ATOM	46927	NH1	ARG	N	23	221.797	119.758	28.147	1.00 79.79	NS14
ATOM	46928	NH2	ARG	N	23	222.934	117.977	29.069	1.00 79.79	NS14
ATOM	46929	C	ARG	N	23	222.010	125.731	28.359	1.00 73.62	NS14
ATOM	46930	O	ARG	N	23	222.227	126.606	29.197	1.00 73.62	NS14
ATOM	46931	N	CYS	N	24	220.977	125.780	27.521	1.00112.24	NS14
ATOM	46932	CA	CYS	N	24	220.052	126.906	27.547	1.00112.24	NS14
ATOM	46933	CB	CYS	N	24	218.911	126.714	26.543	1.00 95.20	NS14
ATOM	46934	SG	CYS	N	24	217.901	128.208	26.315	1.00 95.20	NS14
ATOM	46935	C	CYS	N	24	219.478	127.127	28.934	1.00112.24	NS14
ATOM	46936	O	CYS	N	24	219.143	126.182	29.657	1.00112.24	NS14
ATOM	46937	N	VAL	N	25	219.381	128.400	29.291	1.00 71.06	NS14
ATOM	46938	CA	VAL	N	25	218.860	128.817	30.580	1.00 71.06	NS14
ATOM	46939	CB	VAL	N	25	219.162	130.298	30.827	1.00 83.12	NS14
ATOM	46940	CG1	VAL	N	25	218.501	131.146	29.754	1.00 83.12	NS14
ATOM	46941	CG2	VAL	N	25	218.670	130.700	32.184	1.00 83.12	NS14
ATOM	46942	C	VAL	N	25	217.358	128.639	30.607	1.00 71.06	NS14
ATOM	46943	O	VAL	N	25	216.757	128.538	31.670	1.00 71.06	NS14
ATOM	46944	N	ARG	N	26	216.760	128.594	29.423	1.00 91.53	NS14
ATOM	46945	CA	ARG	N	26	215.318	128.461	29.297	1.00 91.53	NS14
ATOM	46946	CB	ARG	N	26	214.808	129.492	28.292	1.00 78.55	NS14
ATOM	46947	CG	ARG	N	26	213.338	129.400	27.992	1.00 78.55	NS14
ATOM	46948	CD	ARG	N	26	212.914	130.533	27.085	1.00 78.55	NS14
ATOM	46949	NE	ARG	N	26	211.592	130.274	26.533	1.00 78.55	NS14



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ATOM	46950	CZ	ARG	N	26	210.931	131.107	25.738	1.00	78.55	NS14
ATOM	46951	NH1	ARG	N	26	211.468	132.269	25.396	1.00	78.55	NS14
ATOM	46952	NH2	ARG	N	26	209.727	130.776	25.288	1.00	78.55	NS14
ATOM	46953	C	ARG	N	26	214.816	127.073	28.915	1.00	91.53	NS14
ATOM	46954	O	ARG	N	26	213.846	126.593	29.502	1.00	91.53	NS14
ATOM	46955	N	CYS	N	27	215.461	126.427	27.942	1.00	73.95	NS14
ATOM	46956	CA	CYS	N	27	215.027	125.094	27.508	1.00	73.95	NS14
ATOM	46957	CB	CYS	N	27	214.730	125.097	26.007	1.00	40.06	NS14
ATOM	46958	SG	CYS	N	27	216.196	125.270	24.972	1.00	40.06	NS14
ATOM	46959	C	CYS	N	27	216.026	123.974	27.829	1.00	73.95	NS14
ATOM	46960	O	CYS	N	27	215.659	122.795	27.849	1.00	73.95	NS14
ATOM	46961	N	GLY	N	28	217.280	124.342	28.091	1.00	70.59	NS14
ATOM	46962	CA	GLY	N	28	218.294	123.346	28.404	1.00	70.59	NS14
ATOM	46963	C	GLY	N	28	219.016	122.883	27.151	1.00	70.59	NS14
ATOM	46964	O	GLY	N	28	219.881	121.997	27.191	1.00	70.59	NS14
ATOM	46965	N	ARG	N	29	218.646	123.508	26.036	1.00	181.05	NS14
ATOM	46966	CA	ARG	N	29	219.214	123.202	24.733	1.00	181.05	NS14
ATOM	46967	CB	ARG	N	29	218.608	124.104	23.658	1.00	109.71	NS14
ATOM	46968	CG	ARG	N	29	218.938	123.655	22.261	1.00	109.71	NS14
ATOM	46969	CD	ARG	N	29	218.249	122.335	21.985	1.00	109.71	NS14
ATOM	46970	NE	ARG	N	29	218.813	121.610	20.849	1.00	109.71	NS14
ATOM	46971	CZ	ARG	N	29	219.056	122.140	19.653	1.00	109.71	NS14
ATOM	46972	NH1	ARG	N	29	218.797	123.419	19.414	1.00	109.71	NS14
ATOM	46973	NH2	ARG	N	29	219.546	121.378	18.685	1.00	109.71	NS14
ATOM	46974	C	ARG	N	29	220.721	123.379	24.729	1.00	181.05	NS14
ATOM	46975	O	ARG	N	29	221.233	124.416	24.309	1.00	181.05	NS14
ATOM	46976	N	ALA	N	30	221.424	122.357	25.196	1.00	93.30	NS14
ATOM	46977	CA	ALA	N	30	222.881	122.365	25.249	1.00	93.30	NS14
ATOM	46978	CB	ALA	N	30	223.368	121.047	25.854	1.00	53.56	NS14
ATOM	46979	C	ALA	N	30	223.539	122.567	23.875	1.00	93.30	NS14
ATOM	46980	O	ALA	N	30	224.688	123.006	23.785	1.00	93.30	NS14
ATOM	46981	N	ARG	N	31	222.786	122.266	22.819	1.00	84.08	NS14
ATOM	46982	CA	ARG	N	31	223.265	122.324	21.441	1.00	84.08	NS14
ATOM	46983	CB	ARG	N	31	222.183	121.855	20.479	1.00	68.64	NS14
ATOM	46984	CG	ARG	N	31	222.758	121.157	19.257	1.00	68.64	NS14
ATOM	46985	CD	ARG	N	31	223.018	119.697	19.531	1.00	68.64	NS14
ATOM	46986	NE	ARG	N	31	224.347	119.303	19.094	1.00	68.64	NS14
ATOM	46987	CZ	ARG	N	31	224.777	118.047	19.074	1.00	68.64	NS14
ATOM	46988	NH1	ARG	N	31	223.969	117.062	19.467	1.00	68.64	NS14
ATOM	46989	NH2	ARG	N	31	226.017	117.778	18.675	1.00	68.64	NS14
ATOM	46990	C	ARG	N	31	223.847	123.585	20.866	1.00	84.08	NS14
ATOM	46991	O	ARG	N	31	224.967	123.561	20.377	1.00	84.08	NS14
ATOM	46992	N	SER	N	32	223.095	124.672	20.853	1.00	61.14	NS14
ATOM	46993	CA	SER	N	32	223.659	125.887	20.283	1.00	61.14	NS14
ATOM	46994	CB	SER	N	32	223.161	126.086	18.850	1.00	99.95	NS14
ATOM	46995	OG	SER	N	32	221.756	125.991	18.791	1.00	99.95	NS14
ATOM	46996	C	SER	N	32	223.328	127.093	21.137	1.00	61.14	NS14
ATOM	46997	O	SER	N	32	222.469	127.904	20.782	1.00	61.14	NS14
ATOM	46998	N	VAL	N	33	224.043	127.202	22.257	1.00	105.89	NS14
ATOM	46999	CA	VAL	N	33	223.851	128.271	23.235	1.00	105.89	NS14
ATOM	47000	CB	VAL	N	33	224.193	127.771	24.653	1.00	78.68	NS14
ATOM	47001	CG1	VAL	N	33	223.735	128.782	25.687	1.00	78.68	NS14
ATOM	47002	CG2	VAL	N	33	223.549	126.424	24.898	1.00	78.68	NS14
ATOM	47003	C	VAL	N	33	224.667	129.532	22.983	1.00	105.89	NS14
ATOM	47004	O	VAL	N	33	225.894	129.485	22.899	1.00	105.89	NS14
ATOM	47005	N	TYR	N	34	223.975	130.663	22.899	1.00	85.58	NS14
ATOM	47006	CA	TYR	N	34	224.616	131.951	22.668	1.00	85.58	NS14
ATOM	47007	CB	TYR	N	34	223.663	132.863	21.905	1.00	86.11	NS14
ATOM	47008	CG	TYR	N	34	223.714	132.766	20.402	1.00	86.11	NS14
ATOM	47009	CD1	TYR	N	34	223.181	131.676	19.724	1.00	86.11	NS14
ATOM	47010	CE1	TYR	N	34	223.155	131.645	18.328	1.00	86.11	NS14
ATOM	47011	CD2	TYR	N	34	224.233	133.814	19.651	1.00	86.11	NS14
ATOM	47012	CE2	TYR	N	34	224.214	133.794	18.272	1.00	86.11	NS14
ATOM	47013	CZ	TYR	N	34	223.674	132.717	17.614	1.00	86.11	NS14
ATOM	47014	OH	TYR	N	34	223.637	132.747	16.239	1.00	86.11	NS14
ATOM	47015	C	TYR	N	34	225.045	132.671	23.958	1.00	85.58	NS14
ATOM	47016	O	TYR	N	34	224.290	133.489	24.486	1.00	85.58	NS14
ATOM	47017	N	ARG	N	35	226.250	132.383	24.450	1.00	80.49	NS14
ATOM	47018	CA	ARG	N	35	226.787	133.006	25.673	1.00	80.49	NS14
ATOM	47019	CB	ARG	N	35	228.253	133.372	25.472	1.00	88.85	NS14
ATOM	47020	CG	ARG	N	35	229.228	132.237	25.581	1.00	88.85	NS14
ATOM	47021	CD	ARG	N	35	230.614	132.770	25.327	1.00	88.85	NS14
ATOM	47022	NE	ARG	N	35	231.637	131.750	25.502	1.00	88.85	NS14
ATOM	47023	CZ	ARG	N	35	232.881	131.870	25.051	1.00	88.85	NS14
ATOM	47024	NH1	ARG	N	35	233.242	132.970	24.399	1.00	88.85	NS14
ATOM	47025	NH2	ARG	N	35	233.762	130.892	25.243	1.00	88.85	NS14
ATOM	47026	C	ARG	N	35	226.079	134.268	26.165	1.00	80.49	NS14



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ATOM	47027	O	ARG	N	35	225.475	134.296	27.236	1.00	80.49	NS14
ATOM	47028	N	PHE	N	36	226.199	135.319	25.367	1.00	49.65	NS14
ATOM	47029	CA	PHE	N	36	225.622	136.618	25.661	1.00	49.65	NS14
ATOM	47030	CB	PHE	N	36	225.704	137.473	24.398	1.00	55.53	NS14
ATOM	47031	CG	PHE	N	36	225.227	138.882	24.568	1.00	55.53	NS14
ATOM	47032	CD1	PHE	N	36	223.875	139.196	24.440	1.00	55.53	NS14
ATOM	47033	CD2	PHE	N	36	226.139	139.917	24.761	1.00	55.53	NS14
ATOM	47034	CE1	PHE	N	36	223.433	140.531	24.486	1.00	55.53	NS14
ATOM	47035	CE2	PHE	N	36	225.712	141.256	24.811	1.00	55.53	NS14
ATOM	47036	CZ	PHE	N	36	224.353	141.564	24.668	1.00	55.53	NS14
ATOM	47037	C	PHE	N	36	224.203	136.608	26.223	1.00	49.65	NS14
ATOM	47038	O	PHE	N	36	223.764	137.610	26.764	1.00	49.65	NS14
ATOM	47039	N	PHE	N	37	223.486	135.494	26.101	1.00	80.51	NS14
ATOM	47040	CA	PHE	N	37	222.127	135.416	26.644	1.00	80.51	NS14
ATOM	47041	CB	PHE	N	37	221.049	135.391	25.566	1.00	61.53	NS14
ATOM	47042	CG	PHE	N	37	221.145	136.471	24.550	1.00	61.53	NS14
ATOM	47043	CD1	PHE	N	37	222.109	136.423	23.558	1.00	61.53	NS14
ATOM	47044	CD2	PHE	N	37	220.183	137.471	24.500	1.00	61.53	NS14
ATOM	47045	CE1	PHE	N	37	222.104	137.348	22.524	1.00	61.53	NS14
ATOM	47046	CE2	PHE	N	37	220.173	138.403	23.468	1.00	61.53	NS14
ATOM	47047	CZ	PHE	N	37	221.132	138.340	22.476	1.00	61.53	NS14
ATOM	47048	C	PHE	N	37	221.888	134.147	27.441	1.00	80.51	NS14
ATOM	47049	O	PHE	N	37	220.869	134.030	28.115	1.00	80.51	NS14
ATOM	47050	N	GLY	N	38	222.792	133.181	27.347	1.00	74.13	NS14
ATOM	47051	CA	GLY	N	38	222.563	131.928	28.048	1.00	74.13	NS14
ATOM	47052	C	GLY	N	38	221.355	131.267	27.396	1.00	74.13	NS14
ATOM	47053	O	GLY	N	38	220.706	130.390	27.967	1.00	74.13	NS14
ATOM	47054	N	LEU	N	39	221.068	131.698	26.172	1.00	113.53	NS14
ATOM	47055	CA	LEU	N	39	219.938	131.190	25.412	1.00	113.53	NS14
ATOM	47056	CB	LEU	N	39	219.051	132.357	24.987	1.00	58.61	NS14
ATOM	47057	CG	LEU	N	39	218.173	132.928	26.096	1.00	58.61	NS14
ATOM	47058	CD1	LEU	N	39	217.220	133.992	25.517	1.00	58.61	NS14
ATOM	47059	CD2	LEU	N	39	217.390	131.781	26.742	1.00	58.61	NS14
ATOM	47060	C	LEU	N	39	220.299	130.371	24.177	1.00	113.53	NS14
ATOM	47061	O	LEU	N	39	221.292	130.653	23.500	1.00	113.53	NS14
ATOM	47062	N	CYS	N	40	219.470	129.366	23.890	1.00	88.50	NS14
ATOM	47063	CA	CYS	N	40	219.648	128.500	22.726	1.00	88.50	NS14
ATOM	47064	CB	CYS	N	40	218.819	127.231	22.873	1.00	63.07	NS14
ATOM	47065	SG	CYS	N	40	217.082	127.496	22.448	1.00	63.07	NS14
ATOM	47066	C	CYS	N	40	219.130	129.268	21.512	1.00	88.50	NS14
ATOM	47067	O	CYS	N	40	218.285	130.154	21.653	1.00	88.50	NS14
ATOM	47068	N	ARG	N	41	219.616	128.918	20.325	1.00	61.63	NS14
ATOM	47069	CA	ARG	N	41	219.189	129.595	19.103	1.00	61.63	NS14
ATOM	47070	CB	ARG	N	41	219.648	128.823	17.863	1.00	84.15	NS14
ATOM	47071	CG	ARG	N	41	218.901	127.510	17.614	1.00	84.15	NS14
ATOM	47072	CD	ARG	N	41	218.307	127.461	16.202	1.00	84.15	NS14
ATOM	47073	NE	ARG	N	41	217.824	126.132	15.830	1.00	84.15	NS14
ATOM	47074	CZ	ARG	N	41	218.586	125.043	15.782	1.00	84.15	NS14
ATOM	47075	NH1	ARG	N	41	219.875	125.112	16.084	1.00	84.15	NS14
ATOM	47076	NH2	ARG	N	41	218.057	123.884	15.417	1.00	84.15	NS14
ATOM	47077	C	ARG	N	41	217.677	129.766	19.048	1.00	61.63	NS14
ATOM	47078	O	ARG	N	41	217.176	130.846	18.723	1.00	61.63	NS14
ATOM	47079	N	ILE	N	42	216.951	128.700	19.371	1.00	59.46	NS14
ATOM	47080	CA	ILE	N	42	215.494	128.740	19.341	1.00	59.46	NS14
ATOM	47081	CB	ILE	N	42	214.894	127.388	19.755	1.00	53.19	NS14
ATOM	47082	CG2	ILE	N	42	213.375	127.438	19.609	1.00	53.19	NS14
ATOM	47083	CG1	ILE	N	42	215.474	126.269	18.882	1.00	53.19	NS14
ATOM	47084	CD1	ILE	N	42	214.947	124.869	19.214	1.00	53.19	NS14
ATOM	47085	C	ILE	N	42	214.926	129.818	20.266	1.00	59.46	NS14
ATOM	47086	O	ILE	N	42	214.304	130.803	19.811	1.00	59.46	NS14
ATOM	47087	N	CYS	N	43	215.139	129.612	21.567	1.00	55.05	NS14
ATOM	47088	CA	CYS	N	43	214.677	130.532	22.596	1.00	55.05	NS14
ATOM	47089	CB	CYS	N	43	215.297	130.117	23.916	1.00	39.89	NS14
ATOM	47090	SG	CYS	N	43	214.693	128.480	24.346	1.00	39.89	NS14
ATOM	47091	C	CYS	N	43	215.026	131.969	22.216	1.00	55.05	NS14
ATOM	47092	O	CYS	N	43	214.174	132.860	22.241	1.00	55.05	NS14
ATOM	47093	N	LEU	N	44	216.280	132.187	21.843	1.00	71.34	NS14
ATOM	47094	CA	LEU	N	44	216.701	133.507	21.416	1.00	71.34	NS14
ATOM	47095	CB	LEU	N	44	218.097	133.430	20.768	1.00	63.24	NS14
ATOM	47096	CG	LEU	N	44	218.637	134.430	19.726	1.00	63.24	NS14
ATOM	47097	CD1	LEU	N	44	217.982	135.803	19.806	1.00	63.24	NS14
ATOM	47098	CD2	LEU	N	44	220.142	134.537	19.945	1.00	63.24	NS14
ATOM	47099	C	LEU	N	44	215.670	134.075	20.436	1.00	71.34	NS14
ATOM	47100	O	LEU	N	44	215.243	135.217	20.591	1.00	71.34	NS14
ATOM	47101	N	ARG	N	45	215.243	133.286	19.448	1.00	80.89	NS14
ATOM	47102	CA	ARG	N	45	214.275	133.799	18.474	1.00	80.89	NS14
ATOM	47103	CB	ARG	N	45	214.245	132.932	17.207	1.00	57.19	NS14



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ATOM	47104	CG	ARG	N	45	213.736	133.684	15.962	1.00	57.19	NS14
ATOM	47105	CD	ARG	N	45	213.856	132.857	14.678	1.00	57.19	NS14
ATOM	47106	NE	ARG	N	45	212.865	131.785	14.594	1.00	57.19	NS14
ATOM	47107	CZ	ARG	N	45	211.837	131.768	13.745	1.00	57.19	NS14
ATOM	47108	NH1	ARG	N	45	211.644	132.767	12.886	1.00	57.19	NS14
ATOM	47109	NH2	ARG	N	45	210.997	130.740	13.755	1.00	57.19	NS14
ATOM	47110	C	ARG	N	45	212.865	133.940	19.035	1.00	80.89	NS14
ATOM	47111	O	ARG	N	45	212.224	134.973	18.838	1.00	80.89	NS14
ATOM	47112	N	GLU	N	46	212.376	132.914	19.728	1.00	119.29	NS14
ATOM	47113	CA	GLU	N	46	211.036	132.981	20.307	1.00	119.29	NS14
ATOM	47114	CB	GLU	N	46	210.774	131.783	21.212	1.00	91.27	NS14
ATOM	47115	CG	GLU	N	46	210.990	130.440	20.549	1.00	91.27	NS14
ATOM	47116	CD	GLU	N	46	210.663	129.288	21.477	1.00	91.27	NS14
ATOM	47117	OE1	GLU	N	46	211.177	129.287	22.618	1.00	91.27	NS14
ATOM	47118	OE2	GLU	N	46	209.897	128.388	21.064	1.00	91.27	NS14
ATOM	47119	C	GLU	N	46	210.937	134.253	21.132	1.00	119.29	NS14
ATOM	47120	O	GLU	N	46	209.985	135.022	20.997	1.00	119.29	NS14
ATOM	47121	N	LEU	N	47	211.934	134.465	21.987	1.00	65.36	NS14
ATOM	47122	CA	LEU	N	47	211.984	135.644	22.831	1.00	65.36	NS14
ATOM	47123	CB	LEU	N	47	213.100	135.509	23.849	1.00	72.38	NS14
ATOM	47124	CG	LEU	N	47	212.624	134.769	25.090	1.00	72.38	NS14
ATOM	47125	CD1	LEU	N	47	213.797	134.402	25.989	1.00	72.38	NS14
ATOM	47126	CD2	LEU	N	47	211.634	135.657	25.820	1.00	72.38	NS14
ATOM	47127	C	LEU	N	47	212.177	136.916	22.033	1.00	65.36	NS14
ATOM	47128	O	LEU	N	47	211.385	137.846	22.153	1.00	65.36	NS14
ATOM	47129	N	ALA	N	48	213.225	136.960	21.219	1.00	74.22	NS14
ATOM	47130	CA	ALA	N	48	213.502	138.140	20.408	1.00	74.22	NS14
ATOM	47131	CB	ALA	N	48	214.613	137.850	19.419	1.00	65.91	NS14
ATOM	47132	C	ALA	N	48	212.248	138.574	19.667	1.00	74.22	NS14
ATOM	47133	O	ALA	N	48	212.018	139.768	19.465	1.00	74.22	NS14
ATOM	47134	N	HIS	N	49	211.442	137.595	19.268	1.00	87.61	NS14
ATOM	47135	CA	HIS	N	49	210.197	137.857	18.554	1.00	87.61	NS14
ATOM	47136	CB	HIS	N	49	209.587	136.533	18.062	1.00	87.25	NS14
ATOM	47137	CG	HIS	N	49	209.994	136.155	16.668	1.00	87.25	NS14
ATOM	47138	CD2	HIS	N	49	209.322	135.502	15.691	1.00	87.25	NS14
ATOM	47139	ND1	HIS	N	49	211.238	136.445	16.148	1.00	87.25	NS14
ATOM	47140	CE1	HIS	N	49	211.314	135.990	14.911	1.00	87.25	NS14
ATOM	47141	NE2	HIS	N	49	210.165	135.414	14.609	1.00	87.25	NS14
ATOM	47142	C	HIS	N	49	209.205	138.597	19.452	1.00	87.61	NS14
ATOM	47143	O	HIS	N	49	208.489	139.494	18.996	1.00	87.61	NS14
ATOM	47144	N	LYS	N	50	209.169	138.219	20.728	1.00	94.56	NS14
ATOM	47145	CA	LYS	N	50	208.275	138.854	21.689	1.00	94.56	NS14
ATOM	47146	CB	LYS	N	50	208.214	138.053	22.980	1.00	75.08	NS14
ATOM	47147	CG	LYS	N	50	207.388	136.803	22.913	1.00	75.08	NS14
ATOM	47148	CD	LYS	N	50	207.370	136.162	24.282	1.00	75.08	NS14
ATOM	47149	CE	LYS	N	50	206.462	134.948	24.349	1.00	75.08	NS14
ATOM	47150	NZ	LYS	N	50	206.563	134.278	25.687	1.00	75.08	NS14
ATOM	47151	C	LYS	N	50	208.724	140.263	22.032	1.00	94.56	NS14
ATOM	47152	O	LYS	N	50	207.899	141.128	22.320	1.00	94.56	NS14
ATOM	47153	N	GLY	N	51	210.035	140.485	22.017	1.00	101.25	NS14
ATOM	47154	CA	GLY	N	51	210.564	141.796	22.341	1.00	101.25	NS14
ATOM	47155	C	GLY	N	51	211.120	141.837	23.750	1.00	101.25	NS14
ATOM	47156	O	GLY	N	51	211.429	142.907	24.277	1.00	101.25	NS14
ATOM	47157	N	GLN	N	52	211.238	140.664	24.361	1.00	90.71	NS14
ATOM	47158	CA	GLN	N	52	211.770	140.552	25.709	1.00	90.71	NS14
ATOM	47159	CB	GLN	N	52	211.359	139.223	26.323	1.00	84.61	NS14
ATOM	47160	CG	GLN	N	52	209.894	139.153	26.650	1.00	84.61	NS14
ATOM	47161	CD	GLN	N	52	209.548	137.878	27.367	1.00	84.61	NS14
ATOM	47162	OE1	GLN	N	52	210.253	137.466	28.291	1.00	84.61	NS14
ATOM	47163	NE2	GLN	N	52	208.458	137.242	26.958	1.00	84.61	NS14
ATOM	47164	C	GLN	N	52	213.291	140.686	25.716	1.00	90.71	NS14
ATOM	47165	O	GLN	N	52	213.932	140.603	26.768	1.00	90.71	NS14
ATOM	47166	N	LEU	N	53	213.867	140.870	24.532	1.00	71.40	NS14
ATOM	47167	CA	LEU	N	53	215.303	141.064	24.413	1.00	71.40	NS14
ATOM	47168	CB	LEU	N	53	215.900	140.214	23.296	1.00	66.91	NS14
ATOM	47169	CG	LEU	N	53	215.870	138.691	23.398	1.00	66.91	NS14
ATOM	47170	CD1	LEU	N	53	216.983	138.210	22.496	1.00	66.91	NS14
ATOM	47171	CD2	LEU	N	53	216.086	138.176	24.822	1.00	66.91	NS14
ATOM	47172	C	LEU	N	53	215.456	142.534	24.078	1.00	71.40	NS14
ATOM	47173	O	LEU	N	53	215.215	142.962	22.947	1.00	71.40	NS14
ATOM	47174	N	PRO	N	54	215.849	143.329	25.077	1.00	74.92	NS14
ATOM	47175	CD	PRO	N	54	216.269	142.874	26.416	1.00	69.17	NS14
ATOM	47176	CA	PRO	N	54	216.036	144.774	24.920	1.00	74.92	NS14
ATOM	47177	CB	PRO	N	54	216.572	145.206	26.286	1.00	69.17	NS14
ATOM	47178	CG	PRO	N	54	217.219	143.958	26.832	1.00	69.17	NS14
ATOM	47179	C	PRO	N	54	216.958	145.156	23.781	1.00	74.92	NS14
ATOM	47180	O	PRO	N	54	217.986	144.520	23.570	1.00	74.92	NS14



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ATOM	47181	N	GLY	N	55	216.570	146.192	23.044	1.00129.33	NS14
ATOM	47182	CA	GLY	N	55	217.373	146.661	21.930	1.00129.33	NS14
ATOM	47183	C	GLY	N	55	217.703	145.624	20.870	1.00129.33	NS14
ATOM	47184	O	GLY	N	55	218.289	145.961	19.836	1.00129.33	NS14
ATOM	47185	N	VAL	N	56	217.341	144.366	21.115	1.00102.46	NS14
ATOM	47186	CA	VAL	N	56	217.612	143.306	20.153	1.00102.46	NS14
ATOM	47187	CB	VAL	N	56	217.704	141.930	20.838	1.00100.75	NS14
ATOM	47188	CG1	VAL	N	56	218.283	140.915	19.868	1.00100.75	NS14
ATOM	47189	CG2	VAL	N	56	218.564	142.023	22.085	1.00100.75	NS14
ATOM	47190	C	VAL	N	56	216.488	143.284	19.122	1.00102.46	NS14
ATOM	47191	O	VAL	N	56	215.431	142.696	19.343	1.00102.46	NS14
ATOM	47192	N	ARG	N	57	216.731	143.951	18.000	1.00103.95	NS14
ATOM	47193	CA	ARG	N	57	215.762	144.041	16.922	1.00103.95	NS14
ATOM	47194	CB	ARG	N	57	215.622	145.502	16.496	1.00119.92	NS14
ATOM	47195	CG	ARG	N	57	214.546	145.756	15.473	1.00119.92	NS14
ATOM	47196	CD	ARG	N	57	214.476	147.224	15.109	1.00119.92	NS14
ATOM	47197	NE	ARG	N	57	213.670	147.431	13.909	1.00119.92	NS14
ATOM	47198	CZ	ARG	N	57	213.431	148.620	13.362	1.00119.92	NS14
ATOM	47199	NH1	ARG	N	57	213.935	149.716	13.916	1.00119.92	NS14
ATOM	47200	NH2	ARG	N	57	212.696	148.713	12.257	1.00119.92	NS14
ATOM	47201	C	ARG	N	57	216.228	143.175	15.747	1.00103.95	NS14
ATOM	47202	O	ARG	N	57	217.329	142.618	15.780	1.00103.95	NS14
ATOM	47203	N	LYS	N	58	215.390	143.056	14.718	1.00 74.65	NS14
ATOM	47204	CA	LYS	N	58	215.719	142.249	13.545	1.00 74.65	NS14
ATOM	47205	CB	LYS	N	58	214.445	141.786	12.826	1.00 72.70	NS14
ATOM	47206	CG	LYS	N	58	213.534	140.848	13.630	1.00 72.70	NS14
ATOM	47207	CD	LYS	N	58	212.738	139.925	12.701	1.00 72.70	NS14
ATOM	47208	CE	LYS	N	58	212.068	140.704	11.586	1.00 72.70	NS14
ATOM	47209	NZ	LYS	N	58	211.581	139.803	10.524	1.00 72.70	NS14
ATOM	47210	C	LYS	N	58	216.607	142.986	12.548	1.00 74.65	NS14
ATOM	47211	O	LYS	N	58	216.316	144.114	12.147	1.00 74.65	NS14
ATOM	47212	N	ALA	N	59	217.685	142.323	12.142	1.00 78.26	NS14
ATOM	47213	CA	ALA	N	59	218.634	142.892	11.196	1.00 78.26	NS14
ATOM	47214	CB	ALA	N	59	219.918	142.098	11.231	1.00122.31	NS14
ATOM	47215	C	ALA	N	59	218.089	142.920	9.778	1.00 78.26	NS14
ATOM	47216	O	ALA	N	59	217.203	142.143	9.436	1.00 78.26	NS14
ATOM	47217	N	SER	N	60	218.636	143.814	8.960	1.00 78.95	NS14
ATOM	47218	CA	SER	N	60	218.227	143.945	7.565	1.00 78.95	NS14
ATOM	47219	CB	SER	N	60	216.755	144.349	7.484	1.00 96.31	NS14
ATOM	47220	OG	SER	N	60	216.309	144.368	6.138	1.00 96.31	NS14
ATOM	47221	C	SER	N	60	219.083	144.985	6.835	1.00 78.95	NS14
ATOM	47222	O	SER	N	60	219.209	146.122	7.294	1.00 78.95	NS14
ATOM	47223	N	TRP	N	61	219.666	144.606	5.700	1.00112.35	NS14
ATOM	47224	CA	TRP	N	61	220.504	145.539	4.951	1.00112.35	NS14
ATOM	47225	CB	TRP	N	61	221.733	145.908	5.781	1.00 67.33	NS14
ATOM	47226	CG	TRP	N	61	222.709	144.784	5.991	1.00 67.33	NS14
ATOM	47227	CD2	TRP	N	61	222.518	143.584	6.767	1.00 67.33	NS14
ATOM	47228	CE2	TRP	N	61	223.728	142.853	6.713	1.00 67.33	NS14
ATOM	47229	CE3	TRP	N	61	221.452	143.059	7.500	1.00 67.33	NS14
ATOM	47230	CD1	TRP	N	61	223.985	144.724	5.511	1.00 67.33	NS14
ATOM	47231	NE1	TRP	N	61	224.605	143.569	5.941	1.00 67.33	NS14
ATOM	47232	CZ2	TRP	N	61	223.899	141.623	7.369	1.00 67.33	NS14
ATOM	47233	CZ3	TRP	N	61	221.624	141.833	8.152	1.00 67.33	NS14
ATOM	47234	CH2	TRP	N	61	222.840	141.134	8.080	1.00 67.33	NS14
ATOM	47235	C	TRP	N	61	220.942	145.022	3.582	1.00112.35	NS14
ATOM	47236	O	TRP	N	61	220.923	145.824	2.624	1.00112.35	NS14
ATOM	47237	OXT	TRP	N	61	221.313	143.832	3.483	1.00 83.65	NS14
TER	47237		TRP	N	61					NS14
ATOM	47238	CB	PRO	O	2	154.231	110.366	-72.794	1.00 59.03	OS15
ATOM	47239	CG	PRO	O	2	155.667	110.093	-73.202	1.00 59.03	OS15
ATOM	47240	C	PRO	O	2	152.267	108.900	-73.126	1.00 92.79	OS15
ATOM	47241	O	PRO	O	2	152.013	108.413	-74.224	1.00 92.79	OS15
ATOM	47242	N	PRO	O	2	154.544	108.046	-73.387	1.00 92.79	OS15
ATOM	47243	CD	PRO	O	2	155.608	108.816	-74.051	1.00 59.03	OS15
ATOM	47244	CA	PRO	O	2	153.686	108.960	-72.611	1.00 92.79	OS15
ATOM	47245	N	ILE	O	3	151.343	109.409	-72.325	1.00 62.62	OS15
ATOM	47246	CA	ILE	O	3	149.944	109.434	-72.705	1.00 62.62	OS15
ATOM	47247	CB	ILE	O	3	149.028	109.288	-71.474	1.00 88.47	OS15
ATOM	47248	CG2	ILE	O	3	147.595	109.246	-71.918	1.00 88.47	OS15
ATOM	47249	CG1	ILE	O	3	149.342	108.002	-70.707	1.00 88.47	OS15
ATOM	47250	CD1	ILE	O	3	150.600	108.065	-69.888	1.00 88.47	OS15
ATOM	47251	C	ILE	O	3	149.715	110.798	-73.338	1.00 62.62	OS15
ATOM	47252	O	ILE	O	3	149.770	111.808	-72.648	1.00 62.62	OS15
ATOM	47253	N	THR	O	4	149.476	110.841	-74.645	1.00 86.06	OS15
ATOM	47254	CA	THR	O	4	149.264	112.124	-75.316	1.00 86.06	OS15
ATOM	47255	CB	THR	O	4	149.076	111.945	-76.843	1.00125.79	OS15
ATOM	47256	OG1	THR	O	4	147.755	111.464	-77.121	1.00125.79	OS15



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ATOM	47257	CG2	THR	O	4	150.087	110.948	-77.386	1.00125.79	OS15
ATOM	47258	C	THR	O	4	148.027	112.819	-74.752	1.00 86.06	OS15
ATOM	47259	O	THR	O	4	147.105	112.158	-74.280	1.00 86.06	OS15
ATOM	47260	N	LYS	O	5	148.007	114.149	-74.794	1.00 81.27	OS15
ATOM	47261	CA	LYS	O	5	146.859	114.893	-74.287	1.00 81.27	OS15
ATOM	47262	CB	LYS	O	5	146.964	116.367	-74.669	1.00131.47	OS15
ATOM	47263	CG	LYS	O	5	148.224	117.034	-74.170	1.00131.47	OS15
ATOM	47264	CD	LYS	O	5	148.211	118.513	-74.491	1.00131.47	OS15
ATOM	47265	CE	LYS	O	5	149.494	119.189	-74.037	1.00131.47	OS15
ATOM	47266	NZ	LYS	O	5	149.459	120.661	-74.273	1.00131.47	OS15
ATOM	47267	C	LYS	O	5	145.586	114.298	-74.872	1.00 81.27	OS15
ATOM	47268	O	LYS	O	5	144.597	114.098	-74.152	1.00 81.27	OS15
ATOM	47269	N	GLU	O	6	145.619	114.018	-76.178	1.00 68.02	OS15
ATOM	47270	CA	GLU	O	6	144.481	113.416	-76.868	1.00 68.02	OS15
ATOM	47271	CB	GLU	O	6	144.830	113.064	-78.318	1.00190.14	OS15
ATOM	47272	CG	GLU	O	6	146.233	113.439	-78.747	1.00190.14	OS15
ATOM	47273	CD	GLU	O	6	146.452	114.933	-78.751	1.00190.14	OS15
ATOM	47274	OE1	GLU	O	6	145.689	115.642	-79.442	1.00190.14	OS15
ATOM	47275	OE2	GLU	O	6	147.387	115.398	-78.064	1.00190.14	OS15
ATOM	47276	C	GLU	O	6	144.171	112.138	-76.106	1.00 68.02	OS15
ATOM	47277	O	GLU	O	6	143.105	112.010	-75.498	1.00 68.02	OS15
ATOM	47278	N	GLU	O	7	145.122	111.203	-76.146	1.00 72.32	OS15
ATOM	47279	CA	GLU	O	7	145.017	109.926	-75.446	1.00 72.32	OS15
ATOM	47280	CB	GLU	O	7	146.411	109.433	-75.044	1.00153.38	OS15
ATOM	47281	CG	GLU	O	7	147.292	108.964	-76.177	1.00153.38	OS15
ATOM	47282	CD	GLU	O	7	147.191	107.477	-76.400	1.00153.38	OS15
ATOM	47283	OE1	GLU	O	7	146.074	106.988	-76.673	1.00153.38	OS15
ATOM	47284	OE2	GLU	O	7	148.232	106.797	-76.297	1.00153.38	OS15
ATOM	47285	C	GLU	O	7	144.191	110.123	-74.180	1.00 72.32	OS15
ATOM	47286	O	GLU	O	7	143.255	109.373	-73.901	1.00 72.32	OS15
ATOM	47287	N	LYS	O	8	144.547	111.156	-73.426	1.00 73.97	OS15
ATOM	47288	CA	LYS	O	8	143.871	111.464	-72.183	1.00 73.97	OS15
ATOM	47289	CB	LYS	O	8	144.616	112.568	-71.453	1.00 71.63	OS15
ATOM	47290	CG	LYS	O	8	144.496	112.449	-69.962	1.00 71.63	OS15
ATOM	47291	CD	LYS	O	8	145.373	113.456	-69.267	1.00 71.63	OS15
ATOM	47292	CE	LYS	O	8	145.312	113.276	-67.764	1.00 71.63	OS15
ATOM	47293	NZ	LYS	O	8	146.164	114.282	-67.084	1.00 71.63	OS15
ATOM	47294	C	LYS	O	8	142.422	111.872	-72.386	1.00 73.97	OS15
ATOM	47295	O	LYS	O	8	141.507	111.073	-72.164	1.00 73.97	OS15
ATOM	47296	N	GLN	O	9	142.209	113.115	-72.804	1.00 82.99	OS15
ATOM	47297	CA	GLN	O	9	140.854	113.603	-73.026	1.00 82.99	OS15
ATOM	47298	CB	GLN	O	9	140.900	114.874	-73.863	1.00182.39	OS15
ATOM	47299	CG	GLN	O	9	141.647	115.985	-73.164	1.00182.39	OS15
ATOM	47300	CD	GLN	O	9	141.682	117.262	-73.967	1.00182.39	OS15
ATOM	47301	OE1	GLN	O	9	140.639	117.821	-74.312	1.00182.39	OS15
ATOM	47302	NE2	GLN	O	9	142.886	117.738	-74.268	1.00182.39	OS15
ATOM	47303	C	GLN	O	9	139.966	112.548	-73.690	1.00 82.99	OS15
ATOM	47304	O	GLN	O	9	138.807	112.365	-73.307	1.00 82.99	OS15
ATOM	47305	N	LYS	O	10	140.518	111.848	-74.674	1.00 75.06	OS15
ATOM	47306	CA	LYS	O	10	139.775	110.802	-75.366	1.00 75.06	OS15
ATOM	47307	CB	LYS	O	10	140.722	109.963	-76.233	1.00163.34	OS15
ATOM	47308	CG	LYS	O	10	140.273	108.521	-76.443	1.00163.34	OS15
ATOM	47309	CD	LYS	O	10	138.855	108.439	-76.990	1.00163.34	OS15
ATOM	47310	CE	LYS	O	10	138.346	107.004	-76.996	1.00163.34	OS15
ATOM	47311	NZ	LYS	O	10	136.920	106.915	-77.426	1.00163.34	OS15
ATOM	47312	C	LYS	O	10	139.102	109.915	-74.336	1.00 75.06	OS15
ATOM	47313	O	LYS	O	10	137.883	109.722	-74.345	1.00 75.06	OS15
ATOM	47314	N	VAL	O	11	139.918	109.377	-73.444	1.00 72.69	OS15
ATOM	47315	CA	VAL	O	11	139.418	108.507	-72.403	1.00 72.69	OS15
ATOM	47316	CB	VAL	O	11	140.559	107.938	-71.584	1.00 85.53	OS15
ATOM	47317	CG1	VAL	O	11	140.011	107.205	-70.375	1.00 85.53	OS15
ATOM	47318	CG2	VAL	O	11	141.376	107.010	-72.451	1.00 85.53	OS15
ATOM	47319	C	VAL	O	11	138.482	109.252	-71.480	1.00 72.69	OS15
ATOM	47320	O	VAL	O	11	137.535	108.669	-70.957	1.00 72.69	OS15
ATOM	47321	N	ILE	O	12	138.748	110.539	-71.279	1.00 55.07	OS15
ATOM	47322	CA	ILE	O	12	137.907	111.338	-70.405	1.00 55.07	OS15
ATOM	47323	CB	ILE	O	12	138.463	112.744	-70.226	1.00 55.68	OS15
ATOM	47324	CG2	ILE	O	12	137.473	113.576	-69.446	1.00 55.68	OS15
ATOM	47325	CG1	ILE	O	12	139.811	112.677	-69.500	1.00 55.68	OS15
ATOM	47326	CD1	ILE	O	12	140.511	114.029	-69.332	1.00 55.68	OS15
ATOM	47327	C	ILE	O	12	136.495	111.420	-70.961	1.00 55.07	OS15
ATOM	47328	O	ILE	O	12	135.562	110.864	-70.384	1.00 55.07	OS15
ATOM	47329	N	GLN	O	13	136.321	112.109	-72.077	1.00 82.11	OS15
ATOM	47330	CA	GLN	O	13	134.994	112.186	-72.661	1.00 82.11	OS15
ATOM	47331	CB	GLN	O	13	135.065	112.726	-74.084	1.00162.37	OS15
ATOM	47332	CG	GLN	O	13	135.510	114.162	-74.187	1.00162.37	OS15
ATOM	47333	CD	GLN	O	13	135.640	114.608	-75.624	1.00162.37	OS15



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ATOM	47334	OE1	GLN	O	13	135.855	115.787	-75.900	1.00162.37	OS15
ATOM	47335	NE2	GLN	O	13	135.516	113.663	-76.553	1.00162.37	OS15
ATOM	47336	C	GLN	O	13	134.419	110.774	-72.698	1.00 82.11	OS15
ATOM	47337	O	GLN	O	13	133.233	110.568	-72.457	1.00 82.11	OS15
ATOM	47338	N	GLU	O	14	135.283	109.804	-72.986	1.00 62.68	OS15
ATOM	47339	CA	GLU	O	14	134.889	108.399	-73.083	1.00 62.68	OS15
ATOM	47340	CB	GLU	O	14	136.115	107.540	-73.396	1.00182.58	OS15
ATOM	47341	CG	GLU	O	14	135.841	106.053	-73.311	1.00182.58	OS15
ATOM	47342	CD	GLU	O	14	134.641	105.640	-74.140	1.00182.58	OS15
ATOM	47343	OE1	GLU	O	14	134.170	104.495	-73.978	1.00182.58	OS15
ATOM	47344	OE2	GLU	O	14	134.170	106.460	-74.958	1.00182.58	OS15
ATOM	47345	C	GLU	O	14	134.165	107.814	-71.870	1.00 62.68	OS15
ATOM	47346	O	GLU	O	14	133.413	106.847	-71.995	1.00 62.68	OS15
ATOM	47347	N	PHE	O	15	134.392	108.389	-70.698	1.00 84.23	OS15
ATOM	47348	CA	PHE	O	15	133.748	107.883	-69.499	1.00 84.23	OS15
ATOM	47349	CB	PHE	O	15	134.781	107.351	-68.515	1.00 51.89	OS15
ATOM	47350	CG	PHE	O	15	135.390	106.052	-68.920	1.00 51.89	OS15
ATOM	47351	CD1	PHE	O	15	136.432	106.017	-69.830	1.00 51.89	OS15
ATOM	47352	CD2	PHE	O	15	134.921	104.863	-68.382	1.00 51.89	OS15
ATOM	47353	CE1	PHE	O	15	136.999	104.818	-70.195	1.00 51.89	OS15
ATOM	47354	CE2	PHE	O	15	135.480	103.653	-68.743	1.00 51.89	OS15
ATOM	47355	CZ	PHE	O	15	136.523	103.631	-69.652	1.00 51.89	OS15
ATOM	47356	C	PHE	O	15	132.902	108.912	-68.787	1.00 84.23	OS15
ATOM	47357	O	PHE	O	15	131.911	108.560	-68.153	1.00 84.23	OS15
ATOM	47358	N	ALA	O	16	133.303	110.175	-68.873	1.00 62.13	OS15
ATOM	47359	CA	ALA	O	16	132.568	111.258	-68.222	1.00 62.13	OS15
ATOM	47360	CB	ALA	O	16	132.759	112.558	-69.000	1.00 67.36	OS15
ATOM	47361	C	ALA	O	16	131.075	110.938	-68.079	1.00 62.13	OS15
ATOM	47362	O	ALA	O	16	130.436	110.463	-69.019	1.00 62.13	OS15
ATOM	47363	N	ARG	O	17	130.534	111.190	-66.891	1.00 99.95	OS15
ATOM	47364	CA	ARG	O	17	129.129	110.931	-66.592	1.00 99.95	OS15
ATOM	47365	CB	ARG	O	17	128.892	111.073	-65.089	1.00 91.12	OS15
ATOM	47366	CG	ARG	O	17	129.609	110.051	-64.238	1.00 91.12	OS15
ATOM	47367	CD	ARG	O	17	128.935	108.691	-64.313	1.00 91.12	OS15
ATOM	47368	NE	ARG	O	17	127.534	108.713	-63.885	1.00 91.12	OS15
ATOM	47369	CZ	ARG	O	17	127.092	109.249	-62.746	1.00 91.12	OS15
ATOM	47370	NH1	ARG	O	17	127.928	109.833	-61.891	1.00 91.12	OS15
ATOM	47371	NH2	ARG	O	17	125.801	109.183	-62.451	1.00 91.12	OS15
ATOM	47372	C	ARG	O	17	128.193	111.883	-67.333	1.00 99.95	OS15
ATOM	47373	O	ARG	O	17	126.984	111.651	-67.418	1.00 99.95	OS15
ATOM	47374	N	PHE	O	18	128.759	112.955	-67.869	1.00 68.09	OS15
ATOM	47375	CA	PHE	O	18	127.978	113.951	-68.579	1.00 68.09	OS15
ATOM	47376	CB	PHE	O	18	126.961	114.565	-67.629	1.00101.25	OS15
ATOM	47377	CG	PHE	O	18	127.573	115.088	-66.368	1.00101.25	OS15
ATOM	47378	CD1	PHE	O	18	128.329	116.257	-66.378	1.00101.25	OS15
ATOM	47379	CD2	PHE	O	18	127.428	114.392	-65.174	1.00101.25	OS15
ATOM	47380	CE1	PHE	O	18	128.936	116.726	-65.216	1.00101.25	OS15
ATOM	47381	CE2	PHE	O	18	128.030	114.851	-64.005	1.00101.25	OS15
ATOM	47382	CZ	PHE	O	18	128.786	116.021	-64.025	1.00101.25	OS15
ATOM	47383	C	PHE	O	18	128.933	115.022	-69.066	1.00 68.09	OS15
ATOM	47384	O	PHE	O	18	130.047	115.156	-68.556	1.00 68.09	OS15
ATOM	47385	N	PRO	O	19	128.500	115.816	-70.048	1.00 93.57	OS15
ATOM	47386	CD	PRO	O	19	127.130	115.899	-70.579	1.00 70.33	OS15
ATOM	47387	CA	PRO	O	19	129.339	116.880	-70.598	1.00 93.57	OS15
ATOM	47388	CB	PRO	O	19	128.340	117.731	-71.371	1.00 70.33	OS15
ATOM	47389	CG	PRO	O	19	127.323	116.727	-71.810	1.00 70.33	OS15
ATOM	47390	C	PRO	O	19	130.062	117.681	-69.513	1.00 93.57	OS15
ATOM	47391	O	PRO	O	19	129.420	118.326	-68.682	1.00 93.57	OS15
ATOM	47392	N	GLY	O	20	131.392	117.625	-69.515	1.00 78.61	OS15
ATOM	47393	CA	GLY	O	20	132.164	118.374	-68.535	1.00 78.61	OS15
ATOM	47394	C	GLY	O	20	132.631	117.593	-67.322	1.00 78.61	OS15
ATOM	47395	O	GLY	O	20	133.352	118.118	-66.469	1.00 78.61	OS15
ATOM	47396	N	ASP	O	21	132.216	116.338	-67.230	1.00 68.90	OS15
ATOM	47397	CA	ASP	O	21	132.618	115.510	-66.110	1.00 68.90	OS15
ATOM	47398	CB	ASP	O	21	131.840	114.199	-66.123	1.00 71.43	OS15
ATOM	47399	CG	ASP	O	21	132.307	113.244	-65.056	1.00 71.43	OS15
ATOM	47400	OD1	ASP	O	21	131.826	112.095	-65.037	1.00 71.43	OS15
ATOM	47401	OD2	ASP	O	21	133.156	113.642	-64.233	1.00 71.43	OS15
ATOM	47402	C	ASP	O	21	134.115	115.227	-66.202	1.00 68.90	OS15
ATOM	47403	O	ASP	O	21	134.543	114.269	-66.856	1.00 68.90	OS15
ATOM	47404	N	THR	O	22	134.909	116.063	-65.540	1.00 67.38	OS15
ATOM	47405	CA	THR	O	22	136.358	115.900	-65.564	1.00 67.38	OS15
ATOM	47406	CB	THR	O	22	137.095	117.265	-65.403	1.00 64.14	OS15
ATOM	47407	OG1	THR	O	22	136.931	117.749	-64.067	1.00 64.14	OS15
ATOM	47408	CG2	THR	O	22	136.532	118.303	-66.354	1.00 64.14	OS15
ATOM	47409	C	THR	O	22	136.884	114.947	-64.486	1.00 67.38	OS15
ATOM	47410	O	THR	O	22	138.004	114.465	-64.596	1.00 67.38	OS15



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ATOM	47411	N	GLY	O	23	136.088	114.660	-63.456	1.00	69.73	OS15
ATOM	47412	CA	GLY	O	23	136.572	113.777	-62.402	1.00	69.73	OS15
ATOM	47413	C	GLY	O	23	135.603	112.922	-61.586	1.00	69.73	OS15
ATOM	47414	O	GLY	O	23	135.723	112.834	-60.362	1.00	69.73	OS15
ATOM	47415	N	SER	O	24	134.635	112.288	-62.236	1.00	65.73	OS15
ATOM	47416	CA	SER	O	24	133.723	111.425	-61.505	1.00	65.73	OS15
ATOM	47417	CB	SER	O	24	132.581	110.957	-62.397	1.00	153.56	OS15
ATOM	47418	OG	SER	O	24	131.739	112.037	-62.734	1.00	153.56	OS15
ATOM	47419	C	SER	O	24	134.568	110.234	-61.129	1.00	65.73	OS15
ATOM	47420	O	SER	O	24	135.729	110.139	-61.525	1.00	65.73	OS15
ATOM	47421	N	THR	O	25	133.993	109.312	-60.376	1.00	55.15	OS15
ATOM	47422	CA	THR	O	25	134.744	108.134	-59.989	1.00	55.15	OS15
ATOM	47423	CB	THR	O	25	133.956	107.291	-58.989	1.00	56.07	OS15
ATOM	47424	OG1	THR	O	25	133.628	108.104	-57.854	1.00	56.07	OS15
ATOM	47425	CG2	THR	O	25	134.776	106.093	-58.533	1.00	56.07	OS15
ATOM	47426	C	THR	O	25	135.082	107.301	-61.219	1.00	55.15	OS15
ATOM	47427	O	THR	O	25	136.128	106.664	-61.267	1.00	55.15	OS15
ATOM	47428	N	GLU	O	26	134.205	107.316	-62.219	1.00	68.42	OS15
ATOM	47429	CA	GLU	O	26	134.452	106.552	-63.435	1.00	68.42	OS15
ATOM	47430	CB	GLU	O	26	133.236	106.559	-64.359	1.00	76.16	OS15
ATOM	47431	CG	GLU	O	26	132.189	105.502	-64.058	1.00	76.16	OS15
ATOM	47432	CD	GLU	O	26	131.157	105.961	-63.041	1.00	76.16	OS15
ATOM	47433	OE1	GLU	O	26	130.123	105.275	-62.903	1.00	76.16	OS15
ATOM	47434	OE2	GLU	O	26	131.371	107.001	-62.380	1.00	76.16	OS15
ATOM	47435	C	GLU	O	26	135.638	107.120	-64.191	1.00	68.42	OS15
ATOM	47436	O	GLU	O	26	136.595	106.404	-64.496	1.00	68.42	OS15
ATOM	47437	N	VAL	O	27	135.574	108.410	-64.501	1.00	58.55	OS15
ATOM	47438	CA	VAL	O	27	136.660	109.047	-65.232	1.00	58.55	OS15
ATOM	47439	CB	VAL	O	27	136.515	110.588	-65.238	1.00	49.03	OS15
ATOM	47440	CG1	VAL	O	27	137.391	111.192	-66.323	1.00	49.03	OS15
ATOM	47441	CG2	VAL	O	27	135.068	110.968	-65.468	1.00	49.03	OS15
ATOM	47442	C	VAL	O	27	137.974	108.673	-64.560	1.00	58.55	OS15
ATOM	47443	O	VAL	O	27	138.880	108.129	-65.193	1.00	58.55	OS15
ATOM	47444	N	GLN	O	28	138.062	108.941	-63.265	1.00	45.04	OS15
ATOM	47445	CA	GLN	O	28	139.272	108.639	-62.530	1.00	45.04	OS15
ATOM	47446	CB	GLN	O	28	139.107	109.039	-61.083	1.00	65.27	OS15
ATOM	47447	CG	GLN	O	28	139.257	110.518	-60.896	1.00	65.27	OS15
ATOM	47448	CD	GLN	O	28	139.177	110.908	-59.457	1.00	65.27	OS15
ATOM	47449	OE1	GLN	O	28	139.625	110.172	-58.578	1.00	65.27	OS15
ATOM	47450	NE2	GLN	O	28	138.617	112.075	-59.197	1.00	65.27	OS15
ATOM	47451	C	GLN	O	28	139.706	107.195	-62.628	1.00	45.04	OS15
ATOM	47452	O	GLN	O	28	140.875	106.919	-62.887	1.00	45.04	OS15
ATOM	47453	N	VAL	O	29	138.787	106.264	-62.416	1.00	47.44	OS15
ATOM	47454	CA	VAL	O	29	139.159	104.864	-62.526	1.00	47.44	OS15
ATOM	47455	CB	VAL	O	29	137.965	103.923	-62.211	1.00	29.19	OS15
ATOM	47456	CG1	VAL	O	29	138.242	102.505	-62.701	1.00	29.19	OS15
ATOM	47457	CG2	VAL	O	29	137.763	103.869	-60.718	1.00	29.19	OS15
ATOM	47458	C	VAL	O	29	139.645	104.662	-63.951	1.00	47.44	OS15
ATOM	47459	O	VAL	O	29	140.601	103.927	-64.195	1.00	47.44	OS15
ATOM	47460	N	ALA	O	30	139.001	105.345	-64.890	1.00	57.98	OS15
ATOM	47461	CA	ALA	O	30	139.388	105.242	-66.286	1.00	57.98	OS15
ATOM	47462	CB	ALA	O	30	138.515	106.140	-67.144	1.00	82.09	OS15
ATOM	47463	C	ALA	O	30	140.847	105.641	-66.425	1.00	57.98	OS15
ATOM	47464	O	ALA	O	30	141.700	104.787	-66.662	1.00	57.98	OS15
ATOM	47465	N	LEU	O	31	141.135	106.929	-66.256	1.00	63.29	OS15
ATOM	47466	CA	LEU	O	31	142.504	107.429	-66.376	1.00	63.29	OS15
ATOM	47467	CB	LEU	O	31	142.580	108.893	-65.956	1.00	77.15	OS15
ATOM	47468	CG	LEU	O	31	141.951	109.899	-66.912	1.00	77.15	OS15
ATOM	47469	CD1	LEU	O	31	140.448	109.811	-66.831	1.00	77.15	OS15
ATOM	47470	CD2	LEU	O	31	142.404	111.287	-66.539	1.00	77.15	OS15
ATOM	47471	C	LEU	O	31	143.554	106.636	-65.598	1.00	63.29	OS15
ATOM	47472	O	LEU	O	31	144.632	106.351	-66.131	1.00	63.29	OS15
ATOM	47473	N	LEU	O	32	143.257	106.293	-64.342	1.00	51.26	OS15
ATOM	47474	CA	LEU	O	32	144.199	105.521	-63.528	1.00	51.26	OS15
ATOM	47475	CB	LEU	O	32	143.619	105.219	-62.148	1.00	45.83	OS15
ATOM	47476	CG	LEU	O	32	143.850	106.273	-61.064	1.00	45.83	OS15
ATOM	47477	CD1	LEU	O	32	143.550	105.663	-59.695	1.00	45.83	OS15
ATOM	47478	CD2	LEU	O	32	145.289	106.750	-61.104	1.00	45.83	OS15
ATOM	47479	C	LEU	O	32	144.530	104.209	-64.209	1.00	51.26	OS15
ATOM	47480	O	LEU	O	32	145.685	103.790	-64.273	1.00	51.26	OS15
ATOM	47481	N	THR	O	33	143.497	103.555	-64.712	1.00	57.93	OS15
ATOM	47482	CA	THR	O	33	143.680	102.296	-65.395	1.00	57.93	OS15
ATOM	47483	CB	THR	O	33	142.355	101.762	-65.889	1.00	62.40	OS15
ATOM	47484	OG1	THR	O	33	141.456	101.659	-64.777	1.00	62.40	OS15
ATOM	47485	CG2	THR	O	33	142.548	100.391	-66.526	1.00	62.40	OS15
ATOM	47486	C	THR	O	33	144.596	102.512	-66.573	1.00	57.93	OS15
ATOM	47487	O	THR	O	33	145.431	101.667	-66.888	1.00	57.93	OS15



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ATOM	47488	N	LEU	O	34	144.445	103.661	-67.215	1.00	56.51	OS15
ATOM	47489	CA	LEU	O	34	145.272	103.986	-68.366	1.00	56.51	OS15
ATOM	47490	CB	LEU	O	34	144.857	105.330	-68.964	1.00	52.56	OS15
ATOM	47491	CG	LEU	O	34	145.306	105.579	-70.408	1.00	52.56	OS15
ATOM	47492	CD1	LEU	O	34	144.912	106.989	-70.793	1.00	52.56	OS15
ATOM	47493	CD2	LEU	O	34	146.814	105.402	-70.557	1.00	52.56	OS15
ATOM	47494	C	LEU	O	34	146.743	104.042	-67.968	1.00	56.51	OS15
ATOM	47495	O	LEU	O	34	147.573	103.327	-68.533	1.00	56.51	OS15
ATOM	47496	N	ARG	O	35	147.054	104.899	-66.999	1.00	53.53	OS15
ATOM	47497	CA	ARG	O	35	148.423	105.062	-66.523	1.00	53.53	OS15
ATOM	47498	CB	ARG	O	35	148.465	106.064	-65.364	1.00	88.30	OS15
ATOM	47499	CG	ARG	O	35	147.646	107.322	-65.587	1.00	88.30	OS15
ATOM	47500	CD	ARG	O	35	147.898	108.355	-64.495	1.00	88.30	OS15
ATOM	47501	NE	ARG	O	35	149.306	108.745	-64.451	1.00	88.30	OS15
ATOM	47502	CZ	ARG	O	35	150.127	108.487	-63.437	1.00	88.30	OS15
ATOM	47503	NH1	ARG	O	35	149.682	107.838	-62.370	1.00	88.30	OS15
ATOM	47504	NH2	ARG	O	35	151.399	108.867	-63.493	1.00	88.30	OS15
ATOM	47505	C	ARG	O	35	148.995	103.720	-66.053	1.00	53.53	OS15
ATOM	47506	O	ARG	O	35	150.135	103.361	-66.371	1.00	53.53	OS15
ATOM	47507	N	ILE	O	36	148.199	102.979	-65.296	1.00	44.13	OS15
ATOM	47508	CA	ILE	O	36	148.665	101.711	-64.797	1.00	44.13	OS15
ATOM	47509	CB	ILE	O	36	147.570	100.983	-64.022	1.00	53.71	OS15
ATOM	47510	CG2	ILE	O	36	147.951	99.527	-63.828	1.00	53.71	OS15
ATOM	47511	CG1	ILE	O	36	147.366	101.682	-62.673	1.00	53.71	OS15
ATOM	47512	CD1	ILE	O	36	146.316	101.051	-61.799	1.00	53.71	OS15
ATOM	47513	C	ILE	O	36	149.154	100.842	-65.932	1.00	44.13	OS15
ATOM	47514	O	ILE	O	36	150.345	100.529	-66.021	1.00	44.13	OS15
ATOM	47515	N	ASN	O	37	148.243	100.464	-66.818	1.00	59.08	OS15
ATOM	47516	CA	ASN	O	37	148.608	99.620	-67.944	1.00	59.08	OS15
ATOM	47517	CB	ASN	O	37	147.408	99.496	-68.869	1.00	70.38	OS15
ATOM	47518	CG	ASN	O	37	146.262	98.743	-68.199	1.00	70.38	OS15
ATOM	47519	OD1	ASN	O	37	145.177	98.599	-68.753	1.00	70.38	OS15
ATOM	47520	ND2	ASN	O	37	146.512	98.254	-66.989	1.00	70.38	OS15
ATOM	47521	C	ASN	O	37	149.867	100.107	-68.658	1.00	59.08	OS15
ATOM	47522	O	ASN	O	37	150.754	99.314	-68.963	1.00	59.08	OS15
ATOM	47523	N	ARG	O	38	149.973	101.405	-68.899	1.00	61.04	OS15
ATOM	47524	CA	ARG	O	38	151.180	101.918	-69.531	1.00	61.04	OS15
ATOM	47525	CB	ARG	O	38	151.158	103.445	-69.618	1.00	97.60	OS15
ATOM	47526	CG	ARG	O	38	150.147	104.026	-70.592	1.00	97.60	OS15
ATOM	47527	CD	ARG	O	38	150.328	103.464	-71.994	1.00	97.60	OS15
ATOM	47528	NE	ARG	O	38	149.828	104.373	-73.024	1.00	97.60	OS15
ATOM	47529	CZ	ARG	O	38	150.408	105.525	-73.348	1.00	97.60	OS15
ATOM	47530	NH1	ARG	O	38	151.512	105.916	-72.720	1.00	97.60	OS15
ATOM	47531	NH2	ARG	O	38	149.889	106.285	-74.305	1.00	97.60	OS15
ATOM	47532	C	ARG	O	38	152.369	101.497	-68.672	1.00	61.04	OS15
ATOM	47533	O	ARG	O	38	153.225	100.713	-69.109	1.00	61.04	OS15
ATOM	47534	N	LEU	O	39	152.405	102.023	-67.445	1.00	48.02	OS15
ATOM	47535	CA	LEU	O	39	153.489	101.737	-66.493	1.00	48.02	OS15
ATOM	47536	CB	LEU	O	39	153.154	102.328	-65.109	1.00	62.39	OS15
ATOM	47537	CG	LEU	O	39	154.156	102.235	-63.949	1.00	62.39	OS15
ATOM	47538	CD1	LEU	O	39	153.662	103.038	-62.763	1.00	62.39	OS15
ATOM	47539	CD2	LEU	O	39	154.329	100.791	-63.545	1.00	62.39	OS15
ATOM	47540	C	LEU	O	39	153.741	100.239	-66.377	1.00	48.02	OS15
ATOM	47541	O	LEU	O	39	154.881	99.785	-66.475	1.00	48.02	OS15
ATOM	47542	N	SER	O	40	152.673	99.480	-66.159	1.00	41.47	OS15
ATOM	47543	CA	SER	O	40	152.796	98.036	-66.056	1.00	41.47	OS15
ATOM	47544	CB	SER	O	40	151.412	97.395	-65.966	1.00	116.34	OS15
ATOM	47545	OG	SER	O	40	150.737	97.818	-64.793	1.00	116.34	OS15
ATOM	47546	C	SER	O	40	153.546	97.508	-67.280	1.00	41.47	OS15
ATOM	47547	O	SER	O	40	154.402	96.626	-67.175	1.00	41.47	OS15
ATOM	47548	N	GLU	O	41	153.229	98.066	-68.441	1.00	86.46	OS15
ATOM	47549	CA	GLU	O	41	153.889	97.649	-69.663	1.00	86.46	OS15
ATOM	47550	CB	GLU	O	41	153.323	98.405	-70.857	1.00	117.28	OS15
ATOM	47551	CG	GLU	O	41	153.538	97.671	-72.151	1.00	117.28	OS15
ATOM	47552	CD	GLU	O	41	152.950	96.269	-72.112	1.00	117.28	OS15
ATOM	47553	OE1	GLU	O	41	153.134	95.514	-73.090	1.00	117.28	OS15
ATOM	47554	OE2	GLU	O	41	152.299	95.922	-71.101	1.00	117.28	OS15
ATOM	47555	C	GLU	O	41	155.369	97.953	-69.515	1.00	86.46	OS15
ATOM	47556	O	GLU	O	41	156.217	97.068	-69.650	1.00	86.46	OS15
ATOM	47557	N	HIS	O	42	155.662	99.218	-69.230	1.00	75.30	OS15
ATOM	47558	CA	HIS	O	42	157.027	99.681	-69.035	1.00	75.30	OS15
ATOM	47559	CB	HIS	O	42	157.010	101.058	-68.381	1.00	65.23	OS15
ATOM	47560	CG	HIS	O	42	158.298	101.442	-67.710	1.00	65.23	OS15
ATOM	47561	CD2	HIS	O	42	158.612	101.574	-66.399	1.00	65.23	OS15
ATOM	47562	ND1	HIS	O	42	159.428	101.809	-68.409	1.00	65.23	OS15
ATOM	47563	CE1	HIS	O	42	160.379	102.156	-67.560	1.00	65.23	OS15
ATOM	47564	NE2	HIS	O	42	159.909	102.023	-66.333	1.00	65.23	OS15



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ATOM	47565	C	HIS	O	42	157.809	98.727	-68.155	1.00	75.30	OS15
ATOM	47566	O	HIS	O	42	158.972	98.456	-68.415	1.00	75.30	OS15
ATOM	47567	N	LEU	O	43	157.167	98.211	-67.116	1.00	53.85	OS15
ATOM	47568	CA	LEU	O	43	157.841	97.317	-66.189	1.00	53.85	OS15
ATOM	47569	CB	LEU	O	43	157.087	97.303	-64.864	1.00	55.48	OS15
ATOM	47570	CG	LEU	O	43	157.038	98.661	-64.162	1.00	55.48	OS15
ATOM	47571	CD1	LEU	O	43	156.482	98.480	-62.761	1.00	55.48	OS15
ATOM	47572	CD2	LEU	O	43	158.433	99.258	-64.097	1.00	55.48	OS15
ATOM	47573	C	LEU	O	43	158.089	95.885	-66.665	1.00	53.85	OS15
ATOM	47574	O	LEU	O	43	158.896	95.157	-66.057	1.00	53.85	OS15
ATOM	47575	N	LYS	O	44	157.407	95.463	-67.731	1.00	57.74	OS15
ATOM	47576	CA	LYS	O	44	157.627	94.118	-68.240	1.00	57.74	OS15
ATOM	47577	CB	LYS	O	44	156.724	93.824	-69.431	1.00	161.44	OS15
ATOM	47578	CG	LYS	O	44	155.263	93.763	-69.027	1.00	161.44	OS15
ATOM	47579	CD	LYS	O	44	154.435	92.921	-69.978	1.00	161.44	OS15
ATOM	47580	CE	LYS	O	44	152.995	92.814	-69.489	1.00	161.44	OS15
ATOM	47581	NZ	LYS	O	44	152.151	91.968	-70.381	1.00	161.44	OS15
ATOM	47582	C	LYS	O	44	159.075	94.172	-68.629	1.00	57.74	OS15
ATOM	47583	O	LYS	O	44	159.791	93.187	-68.561	1.00	57.74	OS15
ATOM	47584	N	VAL	O	45	159.503	95.363	-69.012	1.00	78.00	OS15
ATOM	47585	CA	VAL	O	45	160.890	95.611	-69.342	1.00	78.00	OS15
ATOM	47586	CB	VAL	O	45	161.023	96.484	-70.557	1.00	58.28	OS15
ATOM	47587	CG1	VAL	O	45	162.466	96.501	-71.003	1.00	58.28	OS15
ATOM	47588	CG2	VAL	O	45	160.109	95.997	-71.635	1.00	58.28	OS15
ATOM	47589	C	VAL	O	45	161.362	96.424	-68.146	1.00	78.00	OS15
ATOM	47590	O	VAL	O	45	160.546	96.841	-67.327	1.00	78.00	OS15
ATOM	47591	N	HIS	O	46	162.657	96.671	-68.030	1.00	115.17	OS15
ATOM	47592	CA	HIS	O	46	163.128	97.445	-66.888	1.00	115.17	OS15
ATOM	47593	CB	HIS	O	46	162.642	98.890	-66.992	1.00	74.92	OS15
ATOM	47594	CG	HIS	O	46	162.923	99.523	-68.313	1.00	74.92	OS15
ATOM	47595	CD2	HIS	O	46	163.673	100.600	-68.647	1.00	74.92	OS15
ATOM	47596	ND1	HIS	O	46	162.415	99.027	-69.494	1.00	74.92	OS15
ATOM	47597	CE1	HIS	O	46	162.842	99.771	-70.500	1.00	74.92	OS15
ATOM	47598	NE2	HIS	O	46	163.607	100.732	-70.013	1.00	74.92	OS15
ATOM	47599	C	HIS	O	46	162.573	96.843	-65.599	1.00	115.17	OS15
ATOM	47600	O	HIS	O	46	162.149	97.572	-64.704	1.00	115.17	OS15
ATOM	47601	N	LYS	O	47	162.551	95.517	-65.506	1.00	66.74	OS15
ATOM	47602	CA	LYS	O	47	162.038	94.869	-64.311	1.00	66.74	OS15
ATOM	47603	CB	LYS	O	47	162.117	93.352	-64.454	1.00	96.26	OS15
ATOM	47604	CG	LYS	O	47	161.247	92.814	-65.568	1.00	96.26	OS15
ATOM	47605	CD	LYS	O	47	161.313	91.300	-65.653	1.00	96.26	OS15
ATOM	47606	CE	LYS	O	47	160.438	90.788	-66.788	1.00	96.26	OS15
ATOM	47607	NZ	LYS	O	47	160.436	89.304	-66.870	1.00	96.26	OS15
ATOM	47608	C	LYS	O	47	162.851	95.327	-63.111	1.00	66.74	OS15
ATOM	47609	O	LYS	O	47	162.452	95.113	-61.970	1.00	66.74	OS15
ATOM	47610	N	LYS	O	48	163.986	95.971	-63.381	1.00	54.16	OS15
ATOM	47611	CA	LYS	O	48	164.861	96.475	-62.330	1.00	54.16	OS15
ATOM	47612	CB	LYS	O	48	166.324	96.333	-62.753	1.00	103.06	OS15
ATOM	47613	CG	LYS	O	48	166.800	94.890	-62.898	1.00	103.06	OS15
ATOM	47614	CD	LYS	O	48	168.301	94.822	-63.207	1.00	103.06	OS15
ATOM	47615	CE	LYS	O	48	168.662	95.559	-64.505	1.00	103.06	OS15
ATOM	47616	NZ	LYS	O	48	170.126	95.537	-64.816	1.00	103.06	OS15
ATOM	47617	C	LYS	O	48	164.573	97.930	-61.933	1.00	54.16	OS15
ATOM	47618	O	LYS	O	48	165.198	98.450	-61.011	1.00	54.16	OS15
ATOM	47619	N	ASP	O	49	163.640	98.582	-62.630	1.00	40.54	OS15
ATOM	47620	CA	ASP	O	49	163.256	99.965	-62.327	1.00	40.54	OS15
ATOM	47621	CB	ASP	O	49	162.597	100.624	-63.557	1.00	41.10	OS15
ATOM	47622	CG	ASP	O	49	162.095	102.060	-63.290	1.00	41.10	OS15
ATOM	47623	OD1	ASP	O	49	162.587	102.721	-62.357	1.00	41.10	OS15
ATOM	47624	OD2	ASP	O	49	161.209	102.542	-64.030	1.00	41.10	OS15
ATOM	47625	C	ASP	O	49	162.291	99.949	-61.139	1.00	40.54	OS15
ATOM	47626	O	ASP	O	49	161.133	100.351	-61.254	1.00	40.54	OS15
ATOM	47627	N	HIS	O	50	162.790	99.473	-59.999	1.00	67.38	OS15
ATOM	47628	CA	HIS	O	50	162.000	99.373	-58.778	1.00	67.38	OS15
ATOM	47629	CB	HIS	O	50	162.855	98.891	-57.619	1.00	66.10	OS15
ATOM	47630	CG	HIS	O	50	163.492	97.560	-57.843	1.00	66.10	OS15
ATOM	47631	CD2	HIS	O	50	164.468	96.914	-57.160	1.00	66.10	OS15
ATOM	47632	ND1	HIS	O	50	163.093	96.706	-58.845	1.00	66.10	OS15
ATOM	47633	CE1	HIS	O	50	163.794	95.587	-58.768	1.00	66.10	OS15
ATOM	47634	NE2	HIS	O	50	164.635	95.687	-57.754	1.00	66.10	OS15
ATOM	47635	C	HIS	O	50	161.370	100.685	-58.361	1.00	67.38	OS15
ATOM	47636	O	HIS	O	50	160.228	100.713	-57.899	1.00	67.38	OS15
ATOM	47637	N	HIS	O	51	162.116	101.773	-58.497	1.00	49.40	OS15
ATOM	47638	CA	HIS	O	51	161.587	103.065	-58.104	1.00	49.40	OS15
ATOM	47639	CB	HIS	O	51	162.622	104.152	-58.367	1.00	58.27	OS15
ATOM	47640	CG	HIS	O	51	163.689	104.220	-57.322	1.00	58.27	OS15
ATOM	47641	CD2	HIS	O	51	164.141	105.255	-56.574	1.00	58.27	OS15



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ATOM	47642	ND1	HIS	O	51	164.415	103.116	-56.930	1.00	58.27	OS15
ATOM	47643	CE1	HIS	O	51	165.269	103.468	-55.985	1.00	58.27	OS15
ATOM	47644	NE2	HIS	O	51	165.123	104.760	-55.751	1.00	58.27	OS15
ATOM	47645	C	HIS	O	51	160.262	103.428	-58.770	1.00	49.40	OS15
ATOM	47646	O	HIS	O	51	159.425	104.102	-58.169	1.00	49.40	OS15
ATOM	47647	N	SER	O	52	160.062	102.992	-60.008	1.00	52.97	OS15
ATOM	47648	CA	SER	O	52	158.820	103.305	-60.693	1.00	52.97	OS15
ATOM	47649	CB	SER	O	52	158.998	103.213	-62.203	1.00	49.74	OS15
ATOM	47650	OG	SER	O	52	159.742	104.311	-62.691	1.00	49.74	OS15
ATOM	47651	C	SER	O	52	157.758	102.327	-60.244	1.00	52.97	OS15
ATOM	47652	O	SER	O	52	156.561	102.589	-60.369	1.00	52.97	OS15
ATOM	47653	N	HIS	O	53	158.187	101.192	-59.713	1.00	69.49	OS15
ATOM	47654	CA	HIS	O	53	157.225	100.209	-59.265	1.00	69.49	OS15
ATOM	47655	CB	HIS	O	53	157.914	99.011	-58.644	1.00	64.70	OS15
ATOM	47656	CG	HIS	O	53	156.966	97.909	-58.302	1.00	64.70	OS15
ATOM	47657	CD2	HIS	O	53	155.997	97.312	-59.038	1.00	64.70	OS15
ATOM	47658	ND1	HIS	O	53	156.947	97.293	-57.070	1.00	64.70	OS15
ATOM	47659	CE1	HIS	O	53	156.009	96.363	-57.063	1.00	64.70	OS15
ATOM	47660	NE2	HIS	O	53	155.418	96.354	-58.245	1.00	64.70	OS15
ATOM	47661	C	HIS	O	53	156.278	100.806	-58.234	1.00	69.49	OS15
ATOM	47662	O	HIS	O	53	155.056	100.599	-58.301	1.00	69.49	OS15
ATOM	47663	N	ARG	O	54	156.852	101.533	-57.272	1.00	55.68	OS15
ATOM	47664	CA	ARG	O	54	156.078	102.174	-56.208	1.00	55.68	OS15
ATOM	47665	CB	ARG	O	54	156.987	103.084	-55.378	1.00	57.29	OS15
ATOM	47666	CG	ARG	O	54	156.327	103.766	-54.204	1.00	57.29	OS15
ATOM	47667	CD	ARG	O	54	157.384	104.240	-53.202	1.00	57.29	OS15
ATOM	47668	NE	ARG	O	54	156.865	105.181	-52.204	1.00	57.29	OS15
ATOM	47669	CZ	ARG	O	54	156.724	106.492	-52.412	1.00	57.29	OS15
ATOM	47670	NH1	ARG	O	54	157.070	107.010	-53.583	1.00	57.29	OS15
ATOM	47671	NH2	ARG	O	54	156.242	107.288	-51.457	1.00	57.29	OS15
ATOM	47672	C	ARG	O	54	154.942	102.972	-56.835	1.00	55.68	OS15
ATOM	47673	O	ARG	O	54	153.781	102.770	-56.505	1.00	55.68	OS15
ATOM	47674	N	GLY	O	55	155.280	103.861	-57.759	1.00	62.78	OS15
ATOM	47675	CA	GLY	O	55	154.260	104.649	-58.416	1.00	62.78	OS15
ATOM	47676	C	GLY	O	55	153.091	103.739	-58.720	1.00	62.78	OS15
ATOM	47677	O	GLY	O	55	151.957	104.019	-58.317	1.00	62.78	OS15
ATOM	47678	N	LEU	O	56	153.370	102.638	-59.418	1.00	47.84	OS15
ATOM	47679	CA	LEU	O	56	152.332	101.675	-59.770	1.00	47.84	OS15
ATOM	47680	CB	LEU	O	56	152.958	100.428	-60.395	1.00	27.74	OS15
ATOM	47681	CG	LEU	O	56	151.936	99.321	-60.654	1.00	27.74	OS15
ATOM	47682	CD1	LEU	O	56	151.110	99.659	-61.864	1.00	27.74	OS15
ATOM	47683	CD2	LEU	O	56	152.652	98.034	-60.883	1.00	27.74	OS15
ATOM	47684	C	LEU	O	56	151.576	101.268	-58.512	1.00	47.84	OS15
ATOM	47685	O	LEU	O	56	150.369	101.472	-58.386	1.00	47.84	OS15
ATOM	47686	N	LEU	O	57	152.322	100.677	-57.591	1.00	60.09	OS15
ATOM	47687	CA	LEU	O	57	151.810	100.221	-56.316	1.00	60.09	OS15
ATOM	47688	CB	LEU	O	57	152.974	100.091	-55.358	1.00	52.59	OS15
ATOM	47689	CG	LEU	O	57	153.154	98.733	-54.724	1.00	52.59	OS15
ATOM	47690	CD1	LEU	O	57	153.170	97.663	-55.793	1.00	52.59	OS15
ATOM	47691	CD2	LEU	O	57	154.450	98.750	-53.941	1.00	52.59	OS15
ATOM	47692	C	LEU	O	57	150.772	101.161	-55.716	1.00	60.09	OS15
ATOM	47693	O	LEU	O	57	149.784	100.720	-55.128	1.00	60.09	OS15
ATOM	47694	N	MET	O	58	151.019	102.458	-55.860	1.00	47.20	OS15
ATOM	47695	CA	MET	O	58	150.138	103.489	-55.339	1.00	47.20	OS15
ATOM	47696	CB	MET	O	58	150.904	104.791	-55.157	1.00	69.09	OS15
ATOM	47697	CG	MET	O	58	152.106	104.718	-54.237	1.00	69.09	OS15
ATOM	47698	SD	MET	O	58	152.917	106.344	-54.179	1.00	69.09	OS15
ATOM	47699	CE	MET	O	58	152.813	106.805	-55.982	1.00	69.09	OS15
ATOM	47700	C	MET	O	58	148.953	103.758	-56.255	1.00	47.20	OS15
ATOM	47701	O	MET	O	58	147.839	103.955	-55.778	1.00	47.20	OS15
ATOM	47702	N	MET	O	59	149.205	103.803	-57.564	1.00	47.97	OS15
ATOM	47703	CA	MET	O	59	148.150	104.042	-58.546	1.00	47.97	OS15
ATOM	47704	CB	MET	O	59	148.700	103.998	-59.960	1.00	70.19	OS15
ATOM	47705	CG	MET	O	59	149.809	104.975	-60.221	1.00	70.19	OS15
ATOM	47706	SD	MET	O	59	150.234	104.926	-61.962	1.00	70.19	OS15
ATOM	47707	CE	MET	O	59	150.416	103.165	-62.220	1.00	70.19	OS15
ATOM	47708	C	MET	O	59	147.141	102.935	-58.399	1.00	47.97	OS15
ATOM	47709	O	MET	O	59	145.934	103.160	-58.419	1.00	47.97	OS15
ATOM	47710	N	VAL	O	60	147.650	101.723	-58.261	1.00	60.37	OS15
ATOM	47711	CA	VAL	O	60	146.773	100.591	-58.086	1.00	60.37	OS15
ATOM	47712	CB	VAL	O	60	147.555	99.299	-57.898	1.00	44.32	OS15
ATOM	47713	CG1	VAL	O	60	146.606	98.169	-57.519	1.00	44.32	OS15
ATOM	47714	CG2	VAL	O	60	148.295	98.971	-59.182	1.00	44.32	OS15
ATOM	47715	C	VAL	O	60	145.971	100.862	-56.840	1.00	60.37	OS15
ATOM	47716	O	VAL	O	60	144.748	100.741	-56.845	1.00	60.37	OS15
ATOM	47717	N	GLY	O	61	146.673	101.237	-55.776	1.00	59.50	OS15
ATOM	47718	CA	GLY	O	61	146.013	101.534	-54.523	1.00	59.50	OS15



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ATOM	47719	C	GLY	O	61	144.891	102.536	-54.710	1.00	59.50	OS15
ATOM	47720	O	GLY	O	61	143.723	102.209	-54.501	1.00	59.50	OS15
ATOM	47721	N	GLN	O	62	145.234	103.754	-55.115	1.00	68.90	OS15
ATOM	47722	CA	GLN	O	62	144.237	104.797	-55.319	1.00	68.90	OS15
ATOM	47723	CB	GLN	O	62	144.901	106.023	-55.947	1.00	68.72	OS15
ATOM	47724	CG	GLN	O	62	144.038	107.293	-55.989	1.00	68.72	OS15
ATOM	47725	CD	GLN	O	62	143.568	107.767	-54.609	1.00	68.72	OS15
ATOM	47726	OE1	GLN	O	62	144.322	107.721	-53.634	1.00	68.72	OS15
ATOM	47727	NE2	GLN	O	62	142.320	108.244	-54.533	1.00	68.72	OS15
ATOM	47728	C	GLN	O	62	143.059	104.312	-56.185	1.00	68.90	OS15
ATOM	47729	O	GLN	O	62	141.904	104.686	-55.953	1.00	68.90	OS15
ATOM	47730	N	ARG	O	63	143.331	103.468	-57.172	1.00	41.68	OS15
ATOM	47731	CA	ARG	O	63	142.239	102.988	-58.009	1.00	41.68	OS15
ATOM	47732	CB	ARG	O	63	142.750	102.290	-59.279	1.00	57.78	OS15
ATOM	47733	CG	ARG	O	63	141.601	101.924	-60.238	1.00	57.78	OS15
ATOM	47734	CD	ARG	O	63	142.093	101.290	-61.512	1.00	57.78	OS15
ATOM	47735	NE	ARG	O	63	142.841	100.078	-61.219	1.00	57.78	OS15
ATOM	47736	CZ	ARG	O	63	143.293	99.245	-62.145	1.00	57.78	OS15
ATOM	47737	NH1	ARG	O	63	143.073	99.488	-63.426	1.00	57.78	OS15
ATOM	47738	NH2	ARG	O	63	143.971	98.171	-61.790	1.00	57.78	OS15
ATOM	47739	C	ARG	O	63	141.338	102.030	-57.262	1.00	41.68	OS15
ATOM	47740	O	ARG	O	63	140.141	102.251	-57.157	1.00	41.68	OS15
ATOM	47741	N	ARG	O	64	141.914	100.948	-56.758	1.00	62.20	OS15
ATOM	47742	CA	ARG	O	64	141.126	99.965	-56.033	1.00	62.20	OS15
ATOM	47743	CB	ARG	O	64	142.007	98.800	-55.567	1.00	149.46	OS15
ATOM	47744	CG	ARG	O	64	143.287	99.204	-54.874	1.00	149.46	OS15
ATOM	47745	CD	ARG	O	64	144.116	97.976	-54.555	1.00	149.46	OS15
ATOM	47746	NE	ARG	O	64	143.341	97.023	-53.775	1.00	149.46	OS15
ATOM	47747	CZ	ARG	O	64	142.808	97.295	-52.589	1.00	149.46	OS15
ATOM	47748	NH1	ARG	O	64	142.971	98.495	-52.043	1.00	149.46	OS15
ATOM	47749	NH2	ARG	O	64	142.104	96.370	-51.951	1.00	149.46	OS15
ATOM	47750	C	ARG	O	64	140.418	100.613	-54.859	1.00	62.20	OS15
ATOM	47751	O	ARG	O	64	139.383	100.135	-54.408	1.00	62.20	OS15
ATOM	47752	N	ARG	O	65	140.958	101.723	-54.381	1.00	38.17	OS15
ATOM	47753	CA	ARG	O	65	140.328	102.402	-53.270	1.00	38.17	OS15
ATOM	47754	CB	ARG	O	65	141.356	103.266	-52.541	1.00	82.08	OS15
ATOM	47755	CG	ARG	O	65	140.920	103.683	-51.156	1.00	82.08	OS15
ATOM	47756	CD	ARG	O	65	142.105	103.912	-50.233	1.00	82.08	OS15
ATOM	47757	NE	ARG	O	65	143.079	104.839	-50.796	1.00	82.08	OS15
ATOM	47758	CZ	ARG	O	65	144.244	104.469	-51.317	1.00	82.08	OS15
ATOM	47759	NH1	ARG	O	65	144.583	103.186	-51.341	1.00	82.08	OS15
ATOM	47760	NH2	ARG	O	65	145.067	105.379	-51.822	1.00	82.08	OS15
ATOM	47761	C	ARG	O	65	139.136	103.241	-53.776	1.00	38.17	OS15
ATOM	47762	O	ARG	O	65	138.134	103.417	-53.077	1.00	38.17	OS15
ATOM	47763	N	LEU	O	66	139.234	103.755	-54.997	1.00	59.13	OS15
ATOM	47764	CA	LEU	O	66	138.138	104.539	-55.549	1.00	59.13	OS15
ATOM	47765	CB	LEU	O	66	138.583	105.273	-56.806	1.00	42.55	OS15
ATOM	47766	CG	LEU	O	66	139.240	106.616	-56.532	1.00	42.55	OS15
ATOM	47767	CD1	LEU	O	66	139.569	107.308	-57.836	1.00	42.55	OS15
ATOM	47768	CD2	LEU	O	66	138.284	107.476	-55.738	1.00	42.55	OS15
ATOM	47769	C	LEU	O	66	136.982	103.617	-55.875	1.00	59.13	OS15
ATOM	47770	O	LEU	O	66	135.838	103.896	-55.538	1.00	59.13	OS15
ATOM	47771	N	LEU	O	67	137.294	102.514	-56.538	1.00	58.83	OS15
ATOM	47772	CA	LEU	O	67	136.286	101.540	-56.893	1.00	58.83	OS15
ATOM	47773	CB	LEU	O	67	136.952	100.347	-57.559	1.00	60.48	OS15
ATOM	47774	CG	LEU	O	67	137.584	100.734	-58.888	1.00	60.48	OS15
ATOM	47775	CD1	LEU	O	67	138.633	99.725	-59.283	1.00	60.48	OS15
ATOM	47776	CD2	LEU	O	67	136.504	100.827	-59.939	1.00	60.48	OS15
ATOM	47777	C	LEU	O	67	135.526	101.088	-55.644	1.00	58.83	OS15
ATOM	47778	O	LEU	O	67	134.306	100.919	-55.675	1.00	58.83	OS15
ATOM	47779	N	ARG	O	68	136.244	100.887	-54.543	1.00	63.80	OS15
ATOM	47780	CA	ARG	O	68	135.587	100.469	-53.317	1.00	63.80	OS15
ATOM	47781	CB	ARG	O	68	136.559	100.477	-52.145	1.00	116.34	OS15
ATOM	47782	CG	ARG	O	68	135.883	100.297	-50.797	1.00	116.34	OS15
ATOM	47783	CD	ARG	O	68	136.912	100.274	-49.694	1.00	116.34	OS15
ATOM	47784	NE	ARG	O	68	137.834	99.158	-49.868	1.00	116.34	OS15
ATOM	47785	CZ	ARG	O	68	139.138	99.219	-49.617	1.00	116.34	OS15
ATOM	47786	NH1	ARG	O	68	139.686	100.349	-49.179	1.00	116.34	OS15
ATOM	47787	NH2	ARG	O	68	139.894	98.146	-49.809	1.00	116.34	OS15
ATOM	47788	C	ARG	O	68	134.473	101.448	-53.036	1.00	63.80	OS15
ATOM	47789	O	ARG	O	68	133.323	101.070	-52.849	1.00	63.80	OS15
ATOM	47790	N	TYR	O	69	134.825	102.720	-53.010	1.00	61.01	OS15
ATOM	47791	CA	TYR	O	69	133.847	103.757	-52.746	1.00	61.01	OS15
ATOM	47792	CB	TYR	O	69	134.478	105.135	-52.923	1.00	46.14	OS15
ATOM	47793	CG	TYR	O	69	133.442	106.208	-52.998	1.00	46.14	OS15
ATOM	47794	CD1	TYR	O	69	132.778	106.629	-51.863	1.00	46.14	OS15
ATOM	47795	CE1	TYR	O	69	131.774	107.568	-51.932	1.00	46.14	OS15



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ATOM	47796	CD2	TYR	O	69	133.078	106.754	-54.215	1.00	46.14	OS15
ATOM	47797	CE2	TYR	O	69	132.072	107.693	-54.296	1.00	46.14	OS15
ATOM	47798	CZ	TYR	O	69	131.423	108.096	-53.148	1.00	46.14	OS15
ATOM	47799	OH	TYR	O	69	130.411	109.023	-53.221	1.00	46.14	OS15
ATOM	47800	C	TYR	O	69	132.639	103.650	-53.670	1.00	61.01	OS15
ATOM	47801	O	TYR	O	69	131.505	103.780	-53.228	1.00	61.01	OS15
ATOM	47802	N	LEU	O	70	132.900	103.434	-54.955	1.00	43.32	OS15
ATOM	47803	CA	LEU	O	70	131.853	103.325	-55.971	1.00	43.32	OS15
ATOM	47804	CB	LEU	O	70	132.500	103.171	-57.355	1.00	62.61	OS15
ATOM	47805	CG	LEU	O	70	131.703	103.268	-58.659	1.00	62.61	OS15
ATOM	47806	CD1	LEU	O	70	130.632	102.224	-58.691	1.00	62.61	OS15
ATOM	47807	CD2	LEU	O	70	131.093	104.638	-58.782	1.00	62.61	OS15
ATOM	47808	C	LEU	O	70	130.960	102.129	-55.681	1.00	43.32	OS15
ATOM	47809	O	LEU	O	70	129.764	102.272	-55.435	1.00	43.32	OS15
ATOM	47810	N	GLN	O	71	131.555	100.947	-55.731	1.00	46.65	OS15
ATOM	47811	CA	GLN	O	71	130.845	99.706	-55.466	1.00	46.65	OS15
ATOM	47812	CB	GLN	O	71	131.874	98.603	-55.199	1.00	97.49	OS15
ATOM	47813	CG	GLN	O	71	131.347	97.192	-55.209	1.00	97.49	OS15
ATOM	47814	CD	GLN	O	71	130.827	96.779	-53.863	1.00	97.49	OS15
ATOM	47815	OE1	GLN	O	71	131.512	96.926	-52.854	1.00	97.49	OS15
ATOM	47816	NE2	GLN	O	71	129.613	96.252	-53.833	1.00	97.49	OS15
ATOM	47817	C	GLN	O	71	129.927	99.937	-54.260	1.00	46.65	OS15
ATOM	47818	O	GLN	O	71	128.722	99.709	-54.337	1.00	46.65	OS15
ATOM	47819	N	ARG	O	72	130.494	100.424	-53.159	1.00	68.75	OS15
ATOM	47820	CA	ARG	O	72	129.713	100.703	-51.959	1.00	68.75	OS15
ATOM	47821	CB	ARG	O	72	130.608	101.280	-50.858	1.00	98.10	OS15
ATOM	47822	CG	ARG	O	72	129.856	102.081	-49.786	1.00	98.10	OS15
ATOM	47823	CD	ARG	O	72	130.666	102.179	-48.502	1.00	98.10	OS15
ATOM	47824	NE	ARG	O	72	132.056	102.550	-48.753	1.00	98.10	OS15
ATOM	47825	CZ	ARG	O	72	132.497	103.800	-48.845	1.00	98.10	OS15
ATOM	47826	NH1	ARG	O	72	131.652	104.816	-48.699	1.00	98.10	OS15
ATOM	47827	NH2	ARG	O	72	133.784	104.035	-49.087	1.00	98.10	OS15
ATOM	47828	C	ARG	O	72	128.556	101.663	-52.217	1.00	68.75	OS15
ATOM	47829	O	ARG	O	72	127.447	101.428	-51.752	1.00	68.75	OS15
ATOM	47830	N	GLU	O	73	128.813	102.742	-52.952	1.00	87.81	OS15
ATOM	47831	CA	GLU	O	73	127.782	103.737	-53.245	1.00	87.81	OS15
ATOM	47832	CB	GLU	O	73	128.405	105.015	-53.803	1.00	105.46	OS15
ATOM	47833	CG	GLU	O	73	129.000	105.883	-52.732	1.00	105.46	OS15
ATOM	47834	CD	GLU	O	73	128.108	105.940	-51.511	1.00	105.46	OS15
ATOM	47835	OE1	GLU	O	73	126.912	106.267	-51.667	1.00	105.46	OS15
ATOM	47836	OE2	GLU	O	73	128.598	105.651	-50.397	1.00	105.46	OS15
ATOM	47837	C	GLU	O	73	126.699	103.265	-54.191	1.00	87.81	OS15
ATOM	47838	O	GLU	O	73	125.540	103.107	-53.794	1.00	87.81	OS15
ATOM	47839	N	ASP	O	74	127.065	103.058	-55.447	1.00	65.43	OS15
ATOM	47840	CA	ASP	O	74	126.104	102.594	-56.433	1.00	65.43	OS15
ATOM	47841	CB	ASP	O	74	125.825	103.702	-57.450	1.00	93.21	OS15
ATOM	47842	CG	ASP	O	74	125.053	103.207	-58.650	1.00	93.21	OS15
ATOM	47843	OD1	ASP	O	74	124.423	102.128	-58.553	1.00	93.21	OS15
ATOM	47844	OD2	ASP	O	74	125.073	103.905	-59.687	1.00	93.21	OS15
ATOM	47845	C	ASP	O	74	126.646	101.349	-57.120	1.00	65.43	OS15
ATOM	47846	O	ASP	O	74	127.349	101.436	-58.129	1.00	65.43	OS15
ATOM	47847	N	PRO	O	75	126.303	100.166	-56.592	1.00	50.31	OS15
ATOM	47848	CD	PRO	O	75	125.171	99.937	-55.683	1.00	48.39	OS15
ATOM	47849	CA	PRO	O	75	126.769	98.896	-57.158	1.00	50.31	OS15
ATOM	47850	CB	PRO	O	75	126.001	97.854	-56.346	1.00	48.39	OS15
ATOM	47851	CG	PRO	O	75	124.728	98.546	-56.080	1.00	48.39	OS15
ATOM	47852	C	PRO	O	75	126.554	98.752	-58.666	1.00	50.31	OS15
ATOM	47853	O	PRO	O	75	127.330	98.078	-59.350	1.00	50.31	OS15
ATOM	47854	N	GLU	O	76	125.518	99.393	-59.191	1.00	74.14	OS15
ATOM	47855	CA	GLU	O	76	125.267	99.286	-60.615	1.00	74.14	OS15
ATOM	47856	CB	GLU	O	76	123.938	99.945	-60.976	1.00	197.28	OS15
ATOM	47857	CG	GLU	O	76	123.401	99.460	-62.307	1.00	197.28	OS15
ATOM	47858	CD	GLU	O	76	123.319	97.943	-62.364	1.00	197.28	OS15
ATOM	47859	OE1	GLU	O	76	122.470	97.363	-61.653	1.00	197.28	OS15
ATOM	47860	OE2	GLU	O	76	124.112	97.331	-63.112	1.00	197.28	OS15
ATOM	47861	C	GLU	O	76	126.405	99.903	-61.432	1.00	74.14	OS15
ATOM	47862	O	GLU	O	76	127.076	99.206	-62.202	1.00	74.14	OS15
ATOM	47863	N	ARG	O	77	126.623	101.204	-61.268	1.00	78.33	OS15
ATOM	47864	CA	ARG	O	77	127.690	101.875	-61.997	1.00	78.33	OS15
ATOM	47865	CB	ARG	O	77	127.950	103.264	-61.428	1.00	72.69	OS15
ATOM	47866	CG	ARG	O	77	127.044	104.329	-61.977	1.00	72.69	OS15
ATOM	47867	CD	ARG	O	77	127.653	105.697	-61.783	1.00	72.69	OS15
ATOM	47868	NE	ARG	O	77	127.560	106.174	-60.411	1.00	72.69	OS15
ATOM	47869	CZ	ARG	O	77	128.267	107.197	-59.940	1.00	72.69	OS15
ATOM	47870	NH1	ARG	O	77	129.121	107.833	-60.732	1.00	72.69	OS15
ATOM	47871	NH2	ARG	O	77	128.106	107.605	-58.687	1.00	72.69	OS15
ATOM	47872	C	ARG	O	77	128.960	101.055	-61.902	1.00	78.33	OS15



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ATOM	47873	O	ARG	O	77	129.675	100.884	-62.888	1.00	78.33	OS15
ATOM	47874	N	TYR	O	78	129.232	100.556	-60.701	1.00	70.15	OS15
ATOM	47875	CA	TYR	O	78	130.406	99.737	-60.448	1.00	70.15	OS15
ATOM	47876	CB	TYR	O	78	130.248	99.020	-59.115	1.00	74.40	OS15
ATOM	47877	CG	TYR	O	78	131.421	98.154	-58.749	1.00	74.40	OS15
ATOM	47878	CD1	TYR	O	78	132.643	98.715	-58.402	1.00	74.40	OS15
ATOM	47879	CE1	TYR	O	78	133.736	97.914	-58.076	1.00	74.40	OS15
ATOM	47880	CD2	TYR	O	78	131.312	96.769	-58.763	1.00	74.40	OS15
ATOM	47881	CE2	TYR	O	78	132.395	95.955	-58.441	1.00	74.40	OS15
ATOM	47882	CZ	TYR	O	78	133.606	96.531	-58.100	1.00	74.40	OS15
ATOM	47883	OH	TYR	O	78	134.688	95.722	-57.807	1.00	74.40	OS15
ATOM	47884	C	TYR	O	78	130.555	98.718	-61.566	1.00	70.15	OS15
ATOM	47885	O	TYR	O	78	131.421	98.858	-62.429	1.00	70.15	OS15
ATOM	47886	N	ARG	O	79	129.699	97.699	-61.549	1.00	82.18	OS15
ATOM	47887	CA	ARG	O	79	129.725	96.651	-62.564	1.00	82.18	OS15
ATOM	47888	CB	ARG	O	79	128.382	95.917	-62.591	1.00	156.58	OS15
ATOM	47889	CG	ARG	O	79	128.143	95.088	-61.346	1.00	156.58	OS15
ATOM	47890	CD	ARG	O	79	126.719	95.202	-60.835	1.00	156.58	OS15
ATOM	47891	NE	ARG	O	79	126.604	94.658	-59.483	1.00	156.58	OS15
ATOM	47892	CZ	ARG	O	79	125.540	94.806	-58.699	1.00	156.58	OS15
ATOM	47893	NH1	ARG	O	79	124.483	95.484	-59.127	1.00	156.58	OS15
ATOM	47894	NH2	ARG	O	79	125.538	94.285	-57.480	1.00	156.58	OS15
ATOM	47895	C	ARG	O	79	130.016	97.250	-63.928	1.00	82.18	OS15
ATOM	47896	O	ARG	O	79	130.983	96.877	-64.594	1.00	82.18	OS15
ATOM	47897	N	ALA	O	80	129.179	98.199	-64.323	1.00	75.76	OS15
ATOM	47898	CA	ALA	O	80	129.316	98.875	-65.603	1.00	75.76	OS15
ATOM	47899	CB	ALA	O	80	128.405	100.079	-65.635	1.00	88.61	OS15
ATOM	47900	C	ALA	O	80	130.742	99.316	-65.888	1.00	75.76	OS15
ATOM	47901	O	ALA	O	80	131.267	99.079	-66.973	1.00	75.76	OS15
ATOM	47902	N	LEU	O	81	131.358	99.967	-64.907	1.00	73.74	OS15
ATOM	47903	CA	LEU	O	81	132.719	100.474	-65.044	1.00	73.74	OS15
ATOM	47904	CB	LEU	O	81	133.113	101.270	-63.790	1.00	58.02	OS15
ATOM	47905	CG	LEU	O	81	134.118	102.422	-63.952	1.00	58.02	OS15
ATOM	47906	CD1	LEU	O	81	134.370	103.101	-62.609	1.00	58.02	OS15
ATOM	47907	CD2	LEU	O	81	135.408	101.892	-64.531	1.00	58.02	OS15
ATOM	47908	C	LEU	O	81	133.730	99.358	-65.269	1.00	73.74	OS15
ATOM	47909	O	LEU	O	81	134.492	99.374	-66.238	1.00	73.74	OS15
ATOM	47910	N	ILE	O	82	133.738	98.391	-64.360	1.00	83.47	OS15
ATOM	47911	CA	ILE	O	82	134.672	97.287	-64.457	1.00	83.47	OS15
ATOM	47912	CB	ILE	O	82	134.497	96.306	-63.292	1.00	92.39	OS15
ATOM	47913	CG2	ILE	O	82	135.353	95.074	-63.520	1.00	92.39	OS15
ATOM	47914	CG1	ILE	O	82	134.885	97.002	-61.988	1.00	92.39	OS15
ATOM	47915	CD1	ILE	O	82	135.028	96.081	-60.824	1.00	92.39	OS15
ATOM	47916	C	ILE	O	82	134.509	96.554	-65.769	1.00	83.47	OS15
ATOM	47917	O	ILE	O	82	135.375	96.646	-66.633	1.00	83.47	OS15
ATOM	47918	N	GLU	O	83	133.404	95.831	-65.915	1.00	101.00	OS15
ATOM	47919	CA	GLU	O	83	133.142	95.094	-67.143	1.00	101.00	OS15
ATOM	47920	CB	GLU	O	83	131.638	94.837	-67.289	1.00	198.94	OS15
ATOM	47921	CG	GLU	O	83	131.212	94.247	-68.631	1.00	198.94	OS15
ATOM	47922	CD	GLU	O	83	130.717	95.301	-69.613	1.00	198.94	OS15
ATOM	47923	OE1	GLU	O	83	131.490	96.221	-69.958	1.00	198.94	OS15
ATOM	47924	OE2	GLU	O	83	129.547	95.207	-70.042	1.00	198.94	OS15
ATOM	47925	C	GLU	O	83	133.660	95.893	-68.336	1.00	101.00	OS15
ATOM	47926	O	GLU	O	83	134.333	95.357	-69.220	1.00	101.00	OS15
ATOM	47927	N	LYS	O	84	133.353	97.184	-68.342	1.00	78.08	OS15
ATOM	47928	CA	LYS	O	84	133.785	98.074	-69.408	1.00	78.08	OS15
ATOM	47929	CB	LYS	O	84	133.230	99.468	-69.151	1.00	78.86	OS15
ATOM	47930	CG	LYS	O	84	133.470	100.481	-70.242	1.00	78.86	OS15
ATOM	47931	CD	LYS	O	84	132.654	101.722	-69.923	1.00	78.86	OS15
ATOM	47932	CE	LYS	O	84	132.627	102.723	-71.058	1.00	78.86	OS15
ATOM	47933	NZ	LYS	O	84	131.726	103.863	-70.717	1.00	78.86	OS15
ATOM	47934	C	LYS	O	84	135.308	98.117	-69.439	1.00	78.08	OS15
ATOM	47935	O	LYS	O	84	135.944	97.558	-70.336	1.00	78.08	OS15
ATOM	47936	N	LEU	O	85	135.882	98.778	-68.440	1.00	80.84	OS15
ATOM	47937	CA	LEU	O	85	137.324	98.909	-68.332	1.00	80.84	OS15
ATOM	47938	CB	LEU	O	85	137.687	99.546	-66.996	1.00	65.56	OS15
ATOM	47939	CG	LEU	O	85	137.654	101.069	-67.044	1.00	65.56	OS15
ATOM	47940	CD1	LEU	O	85	138.276	101.663	-65.792	1.00	65.56	OS15
ATOM	47941	CD2	LEU	O	85	138.438	101.518	-68.255	1.00	65.56	OS15
ATOM	47942	C	LEU	O	85	138.082	97.604	-68.486	1.00	80.84	OS15
ATOM	47943	O	LEU	O	85	139.082	97.543	-69.195	1.00	80.84	OS15
ATOM	47944	N	GLY	O	86	137.612	96.561	-67.815	1.00	127.66	OS15
ATOM	47945	CA	GLY	O	86	138.285	95.279	-67.892	1.00	127.66	OS15
ATOM	47946	C	GLY	O	86	139.111	95.027	-66.644	1.00	127.66	OS15
ATOM	47947	O	GLY	O	86	140.178	94.410	-66.709	1.00	127.66	OS15
ATOM	47948	N	ILE	O	87	138.614	95.512	-65.507	1.00	101.41	OS15
ATOM	47949	CA	ILE	O	87	139.287	95.346	-64.222	1.00	101.41	OS15



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ATOM	47950	CB	ILE	O	87	138.990	96.530	-63.294	1.00105.18	OS15
ATOM	47951	CG2	ILE	O	87	139.664	96.321	-61.943	1.00105.18	OS15
ATOM	47952	CG1	ILE	O	87	139.475	97.824	-63.952	1.00105.18	OS15
ATOM	47953	CD1	ILE	O	87	139.131	99.085	-63.175	1.00105.18	OS15
ATOM	47954	C	ILE	O	87	138.826	94.058	-63.550	1.00101.41	OS15
ATOM	47955	O	ILE	O	87	137.775	93.518	-63.895	1.00101.41	OS15
ATOM	47956	N	ARG	O	88	139.619	93.580	-62.593	1.00185.44	OS15
ATOM	47957	CA	ARG	O	88	139.345	92.344	-61.865	1.00185.44	OS15
ATOM	47958	CB	ARG	O	88	137.850	92.029	-61.851	1.00186.54	OS15
ATOM	47959	CG	ARG	O	88	137.060	92.769	-60.802	1.00186.54	OS15
ATOM	47960	CD	ARG	O	88	137.211	92.085	-59.463	1.00186.54	OS15
ATOM	47961	NE	ARG	O	88	136.050	92.310	-58.608	1.00186.54	OS15
ATOM	47962	CZ	ARG	O	88	135.786	91.613	-57.505	1.00186.54	OS15
ATOM	47963	NH1	ARG	O	88	136.603	90.640	-57.118	1.00186.54	OS15
ATOM	47964	NH2	ARG	O	88	134.699	91.881	-56.790	1.00186.54	OS15
ATOM	47965	C	ARG	O	88	140.096	91.195	-62.527	1.00185.44	OS15
ATOM	47966	O	ARG	O	88	140.854	91.404	-63.476	1.00185.44	OS15
ATOM	47967	N	GLY	O	89	139.878	89.984	-62.023	1.00198.94	OS15
ATOM	47968	CA	GLY	O	89	140.545	88.818	-62.574	1.00198.94	OS15
ATOM	47969	C	GLY	O	89	141.722	88.368	-61.726	1.00198.94	OS15
ATOM	47970	O	GLY	O	89	141.665	87.246	-61.176	1.00198.94	OS15
ATOM	47971	OXT	GLY	O	89	142.702	89.136	-61.602	1.00134.12	OS15
TER	47971		GLY	O	89					OS15
ATOM	47972	CB	MET	P	1	108.916	66.392	4.226	1.00 81.51	PS16
ATOM	47973	CG	MET	P	1	107.642	66.913	4.831	1.00 81.51	PS16
ATOM	47974	SD	MET	P	1	107.311	66.019	6.315	1.00 81.51	PS16
ATOM	47975	CE	MET	P	1	108.296	66.989	7.470	1.00 81.51	PS16
ATOM	47976	C	MET	P	1	109.676	68.697	3.988	1.00 77.02	PS16
ATOM	47977	O	MET	P	1	110.161	68.744	5.116	1.00 77.02	PS16
ATOM	47978	N	MET	P	1	110.860	66.868	2.777	1.00 77.02	PS16
ATOM	47979	CA	MET	P	1	109.542	67.374	3.263	1.00 77.02	PS16
ATOM	47980	N	VAL	P	2	109.201	69.759	3.351	1.00 55.47	PS16
ATOM	47981	CA	VAL	P	2	109.284	71.101	3.910	1.00 55.47	PS16
ATOM	47982	CB	VAL	P	2	108.513	72.070	3.024	1.00 68.73	PS16
ATOM	47983	CG1	VAL	P	2	107.114	71.517	2.771	1.00 68.73	PS16
ATOM	47984	CG2	VAL	P	2	108.499	73.451	3.664	1.00 68.73	PS16
ATOM	47985	C	VAL	P	2	108.799	71.198	5.359	1.00 55.47	PS16
ATOM	47986	O	VAL	P	2	107.728	70.702	5.713	1.00 55.47	PS16
ATOM	47987	N	LYS	P	3	109.589	71.853	6.198	1.00 56.81	PS16
ATOM	47988	CA	LYS	P	3	109.235	71.959	7.601	1.00 56.81	PS16
ATOM	47989	CB	LYS	P	3	110.129	71.011	8.400	1.00 69.33	PS16
ATOM	47990	CG	LYS	P	3	110.106	69.589	7.861	1.00 69.33	PS16
ATOM	47991	CD	LYS	P	3	110.904	68.620	8.722	1.00 69.33	PS16
ATOM	47992	CE	LYS	P	3	110.184	68.253	10.019	1.00 69.33	PS16
ATOM	47993	NZ	LYS	P	3	111.029	67.328	10.838	1.00 69.33	PS16
ATOM	47994	C	LYS	P	3	109.310	73.362	8.205	1.00 56.81	PS16
ATOM	47995	O	LYS	P	3	109.644	74.340	7.530	1.00 56.81	PS16
ATOM	47996	N	ILE	P	4	108.960	73.458	9.481	1.00 41.51	PS16
ATOM	47997	CA	ILE	P	4	109.044	74.724	10.193	1.00 41.51	PS16
ATOM	47998	CB	ILE	P	4	107.659	75.279	10.581	1.00 56.45	PS16
ATOM	47999	CG2	ILE	P	4	107.829	76.490	11.491	1.00 56.45	PS16
ATOM	48000	CG1	ILE	P	4	106.865	75.646	9.323	1.00 56.45	PS16
ATOM	48001	CD1	ILE	P	4	105.522	76.338	9.614	1.00 56.45	PS16
ATOM	48002	C	ILE	P	4	109.802	74.364	11.450	1.00 41.51	PS16
ATOM	48003	O	ILE	P	4	109.269	73.691	12.314	1.00 41.51	PS16
ATOM	48004	N	ARG	P	5	111.050	74.782	11.555	1.00 54.43	PS16
ATOM	48005	CA	ARG	P	5	111.801	74.416	12.736	1.00 54.43	PS16
ATOM	48006	CB	ARG	P	5	112.617	73.151	12.479	1.00 67.16	PS16
ATOM	48007	CG	ARG	P	5	113.789	73.342	11.536	1.00 67.16	PS16
ATOM	48008	CD	ARG	P	5	114.401	72.006	11.175	1.00 67.16	PS16
ATOM	48009	NE	ARG	P	5	115.531	72.134	10.261	1.00 67.16	PS16
ATOM	48010	CZ	ARG	P	5	115.759	71.307	9.244	1.00 67.16	PS16
ATOM	48011	NH1	ARG	P	5	114.935	70.294	9.015	1.00 67.16	PS16
ATOM	48012	NH2	ARG	P	5	116.800	71.499	8.444	1.00 67.16	PS16
ATOM	48013	C	ARG	P	5	112.728	75.503	13.184	1.00 54.43	PS16
ATOM	48014	O	ARG	P	5	112.634	76.644	12.734	1.00 54.43	PS16
ATOM	48015	N	LEU	P	6	113.630	75.122	14.080	1.00 51.20	PS16
ATOM	48016	CA	LEU	P	6	114.606	76.036	14.626	1.00 51.20	PS16
ATOM	48017	CB	LEU	P	6	114.734	75.814	16.136	1.00 61.61	PS16
ATOM	48018	CG	LEU	P	6	113.603	76.451	16.952	1.00 61.61	PS16
ATOM	48019	CD1	LEU	P	6	112.264	75.937	16.459	1.00 61.61	PS16
ATOM	48020	CD2	LEU	P	6	113.779	76.150	18.431	1.00 61.61	PS16
ATOM	48021	C	LEU	P	6	115.967	75.892	13.944	1.00 51.20	PS16
ATOM	48022	O	LEU	P	6	116.269	74.870	13.317	1.00 51.20	PS16
ATOM	48023	N	ALA	P	7	116.770	76.945	14.047	1.00 38.18	PS16
ATOM	48024	CA	ALA	P	7	118.098	76.973	13.467	1.00 38.18	PS16
ATOM	48025	CB	ALA	P	7	118.066	77.690	12.156	1.00 22.00	PS16



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ATOM	48026	C	ALA	P	7	118.960	77.720	14.449	1.00	38.18	PS16
ATOM	48027	O	ALA	P	7	118.756	78.910	14.682	1.00	38.18	PS16
ATOM	48028	N	ARG	P	8	119.900	77.004	15.052	1.00	59.23	PS16
ATOM	48029	CA	ARG	P	8	120.806	77.588	16.023	1.00	59.23	PS16
ATOM	48030	CB	ARG	P	8	121.896	76.595	16.374	1.00	58.26	PS16
ATOM	48031	CG	ARG	P	8	121.783	76.023	17.744	1.00	58.26	PS16
ATOM	48032	CD	ARG	P	8	122.579	76.819	18.739	1.00	58.26	PS16
ATOM	48033	NE	ARG	P	8	122.582	76.123	20.018	1.00	58.26	PS16
ATOM	48034	CZ	ARG	P	8	123.355	76.449	21.046	1.00	58.26	PS16
ATOM	48035	NH1	ARG	P	8	124.200	77.476	20.954	1.00	58.26	PS16
ATOM	48036	NH2	ARG	P	8	123.294	75.735	22.163	1.00	58.26	PS16
ATOM	48037	C	ARG	P	8	121.452	78.813	15.431	1.00	59.23	PS16
ATOM	48038	O	ARG	P	8	121.821	78.813	14.262	1.00	59.23	PS16
ATOM	48039	N	PHE	P	9	121.601	79.860	16.232	1.00	56.18	PS16
ATOM	48040	CA	PHE	P	9	122.234	81.073	15.743	1.00	56.18	PS16
ATOM	48041	CB	PHE	P	9	121.220	81.930	14.992	1.00	47.86	PS16
ATOM	48042	CG	PHE	P	9	121.314	81.808	13.499	1.00	47.86	PS16
ATOM	48043	CD1	PHE	P	9	122.302	82.482	12.800	1.00	47.86	PS16
ATOM	48044	CD2	PHE	P	9	120.423	81.011	12.796	1.00	47.86	PS16
ATOM	48045	CE1	PHE	P	9	122.402	82.364	11.416	1.00	47.86	PS16
ATOM	48046	CE2	PHE	P	9	120.513	80.884	11.414	1.00	47.86	PS16
ATOM	48047	CZ	PHE	P	9	121.507	81.564	10.722	1.00	47.86	PS16
ATOM	48048	C	PHE	P	9	122.862	81.864	16.869	1.00	56.18	PS16
ATOM	48049	O	PHE	P	9	123.481	82.903	16.647	1.00	56.18	PS16
ATOM	48050	N	GLY	P	10	122.718	81.354	18.082	1.00	48.15	PS16
ATOM	48051	CA	GLY	P	10	123.280	82.044	19.223	1.00	48.15	PS16
ATOM	48052	C	GLY	P	10	124.797	82.038	19.242	1.00	48.15	PS16
ATOM	48053	O	GLY	P	10	125.448	82.620	18.374	1.00	48.15	PS16
ATOM	48054	N	SER	P	11	125.343	81.383	20.260	1.00	58.00	PS16
ATOM	48055	CA	SER	P	11	126.776	81.239	20.469	1.00	58.00	PS16
ATOM	48056	CB	SER	P	11	127.443	82.598	20.656	1.00	64.63	PS16
ATOM	48057	OG	SER	P	11	126.573	83.504	21.305	1.00	64.63	PS16
ATOM	48058	C	SER	P	11	126.900	80.398	21.722	1.00	58.00	PS16
ATOM	48059	O	SER	P	11	125.903	80.165	22.405	1.00	58.00	PS16
ATOM	48060	N	LYS	P	12	128.105	79.932	22.027	1.00	71.08	PS16
ATOM	48061	CA	LYS	P	12	128.285	79.076	23.193	1.00	71.08	PS16
ATOM	48062	CB	LYS	P	12	129.756	78.981	23.574	1.00	76.16	PS16
ATOM	48063	CG	LYS	P	12	130.312	77.566	23.606	1.00	76.16	PS16
ATOM	48064	CD	LYS	P	12	131.630	77.572	24.357	1.00	76.16	PS16
ATOM	48065	CE	LYS	P	12	132.546	76.441	23.937	1.00	76.16	PS16
ATOM	48066	NZ	LYS	P	12	133.803	76.429	24.759	1.00	76.16	PS16
ATOM	48067	C	LYS	P	12	127.490	79.579	24.382	1.00	71.08	PS16
ATOM	48068	O	LYS	P	12	127.620	80.728	24.784	1.00	71.08	PS16
ATOM	48069	N	HIS	P	13	126.652	78.712	24.928	1.00	78.09	PS16
ATOM	48070	CA	HIS	P	13	125.844	79.062	26.080	1.00	78.09	PS16
ATOM	48071	CB	HIS	P	13	126.738	79.318	27.276	1.00	81.16	PS16
ATOM	48072	CG	HIS	P	13	127.683	78.201	27.551	1.00	81.16	PS16
ATOM	48073	CD2	HIS	P	13	129.034	78.171	27.622	1.00	81.16	PS16
ATOM	48074	ND1	HIS	P	13	127.256	76.909	27.764	1.00	81.16	PS16
ATOM	48075	CE1	HIS	P	13	128.306	76.129	27.953	1.00	81.16	PS16
ATOM	48076	NE2	HIS	P	13	129.397	76.870	27.872	1.00	81.16	PS16
ATOM	48077	C	HIS	P	13	124.940	80.261	25.881	1.00	78.09	PS16
ATOM	48078	O	HIS	P	13	124.356	80.748	26.846	1.00	78.09	PS16
ATOM	48079	N	ASN	P	14	124.831	80.747	24.649	1.00	44.78	PS16
ATOM	48080	CA	ASN	P	14	123.964	81.888	24.346	1.00	44.78	PS16
ATOM	48081	CB	ASN	P	14	124.778	83.183	24.223	1.00	84.81	PS16
ATOM	48082	CG	ASN	P	14	123.933	84.368	23.766	1.00	84.81	PS16
ATOM	48083	OD1	ASN	P	14	122.856	84.624	24.306	1.00	84.81	PS16
ATOM	48084	ND2	ASN	P	14	124.427	85.099	22.769	1.00	84.81	PS16
ATOM	48085	C	ASN	P	14	123.232	81.603	23.047	1.00	44.78	PS16
ATOM	48086	O	ASN	P	14	123.327	82.357	22.088	1.00	44.78	PS16
ATOM	48087	N	PRO	P	15	122.481	80.499	23.009	1.00	61.54	PS16
ATOM	48088	CD	PRO	P	15	122.119	79.717	24.202	1.00	55.55	PS16
ATOM	48089	CA	PRO	P	15	121.706	80.056	21.847	1.00	61.54	PS16
ATOM	48090	CB	PRO	P	15	121.035	78.792	22.358	1.00	55.55	PS16
ATOM	48091	CG	PRO	P	15	120.791	79.136	23.797	1.00	55.55	PS16
ATOM	48092	C	PRO	P	15	120.681	81.084	21.414	1.00	61.54	PS16
ATOM	48093	O	PRO	P	15	120.231	81.881	22.230	1.00	61.54	PS16
ATOM	48094	N	HIS	P	16	120.307	81.046	20.140	1.00	39.48	PS16
ATOM	48095	CA	HIS	P	16	119.312	81.959	19.569	1.00	39.48	PS16
ATOM	48096	CB	HIS	P	16	119.940	83.314	19.218	1.00	59.49	PS16
ATOM	48097	CG	HIS	P	16	119.892	84.309	20.334	1.00	59.49	PS16
ATOM	48098	CD2	HIS	P	16	119.019	85.312	20.594	1.00	59.49	PS16
ATOM	48099	ND1	HIS	P	16	120.789	84.300	21.382	1.00	59.49	PS16
ATOM	48100	CE1	HIS	P	16	120.471	85.252	22.241	1.00	59.49	PS16
ATOM	48101	NE2	HIS	P	16	119.401	85.880	21.787	1.00	59.49	PS16
ATOM	48102	C	HIS	P	16	118.765	81.322	18.303	1.00	39.48	PS16



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ATOM	48103	O	HIS	P	16	119.423	81.330	17.264	1.00	39.48	PS16
ATOM	48104	N	TYR	P	17	117.560	80.781	18.363	1.00	44.70	PS16
ATOM	48105	CA	TYR	P	17	117.029	80.106	17.186	1.00	44.70	PS16
ATOM	48106	CB	TYR	P	17	116.102	78.960	17.624	1.00	66.28	PS16
ATOM	48107	CG	TYR	P	17	116.757	78.031	18.624	1.00	66.28	PS16
ATOM	48108	CD1	TYR	P	17	117.019	78.454	19.932	1.00	66.28	PS16
ATOM	48109	CE1	TYR	P	17	117.709	77.638	20.844	1.00	66.28	PS16
ATOM	48110	CD2	TYR	P	17	117.195	76.760	18.250	1.00	66.28	PS16
ATOM	48111	CE2	TYR	P	17	117.888	75.934	19.160	1.00	66.28	PS16
ATOM	48112	CZ	TYR	P	17	118.142	76.386	20.454	1.00	66.28	PS16
ATOM	48113	OH	TYR	P	17	118.847	75.605	21.347	1.00	66.28	PS16
ATOM	48114	C	TYR	P	17	116.314	81.014	16.208	1.00	44.70	PS16
ATOM	48115	O	TYR	P	17	115.955	82.142	16.532	1.00	44.70	PS16
ATOM	48116	N	ARG	P	18	116.149	80.517	14.991	1.00	41.26	PS16
ATOM	48117	CA	ARG	P	18	115.419	81.235	13.964	1.00	41.26	PS16
ATOM	48118	CB	ARG	P	18	116.299	81.584	12.771	1.00	60.50	PS16
ATOM	48119	CG	ARG	P	18	117.231	82.725	13.022	1.00	60.50	PS16
ATOM	48120	CD	ARG	P	18	117.792	83.280	11.733	1.00	60.50	PS16
ATOM	48121	NE	ARG	P	18	118.827	84.264	12.019	1.00	60.50	PS16
ATOM	48122	CZ	ARG	P	18	119.559	84.864	11.092	1.00	60.50	PS16
ATOM	48123	NH1	ARG	P	18	119.372	84.584	9.810	1.00	60.50	PS16
ATOM	48124	NH2	ARG	P	18	120.487	85.736	11.449	1.00	60.50	PS16
ATOM	48125	C	ARG	P	18	114.332	80.301	13.491	1.00	41.26	PS16
ATOM	48126	O	ARG	P	18	114.625	79.285	12.866	1.00	41.26	PS16
ATOM	48127	N	ILE	P	19	113.087	80.619	13.816	1.00	38.54	PS16
ATOM	48128	CA	ILE	P	19	111.959	79.806	13.380	1.00	38.54	PS16
ATOM	48129	CB	ILE	P	19	110.676	80.301	14.030	1.00	56.07	PS16
ATOM	48130	CG2	ILE	P	19	109.467	79.638	13.381	1.00	56.07	PS16
ATOM	48131	CG1	ILE	P	19	110.770	80.038	15.538	1.00	56.07	PS16
ATOM	48132	CD1	ILE	P	19	109.896	80.910	16.375	1.00	56.07	PS16
ATOM	48133	C	ILE	P	19	111.934	79.984	11.868	1.00	38.54	PS16
ATOM	48134	O	ILE	P	19	111.644	81.067	11.341	1.00	38.54	PS16
ATOM	48135	N	VAL	P	20	112.230	78.890	11.183	1.00	51.71	PS16
ATOM	48136	CA	VAL	P	20	112.385	78.891	9.748	1.00	51.71	PS16
ATOM	48137	CB	VAL	P	20	113.858	78.698	9.461	1.00	53.83	PS16
ATOM	48138	CG1	VAL	P	20	114.040	78.335	8.057	1.00	53.83	PS16
ATOM	48139	CG2	VAL	P	20	114.637	79.943	9.825	1.00	53.83	PS16
ATOM	48140	C	VAL	P	20	111.641	77.820	8.967	1.00	51.71	PS16
ATOM	48141	O	VAL	P	20	111.398	76.732	9.481	1.00	51.71	PS16
ATOM	48142	N	VAL	P	21	111.300	78.133	7.718	1.00	36.80	PS16
ATOM	48143	CA	VAL	P	21	110.661	77.171	6.817	1.00	36.80	PS16
ATOM	48144	CB	VAL	P	21	109.771	77.839	5.763	1.00	41.07	PS16
ATOM	48145	CG1	VAL	P	21	109.072	76.779	4.915	1.00	41.07	PS16
ATOM	48146	CG2	VAL	P	21	108.784	78.747	6.428	1.00	41.07	PS16
ATOM	48147	C	VAL	P	21	111.869	76.635	6.069	1.00	36.80	PS16
ATOM	48148	O	VAL	P	21	112.807	77.380	5.820	1.00	36.80	PS16
ATOM	48149	N	THR	P	22	111.861	75.365	5.692	1.00	70.24	PS16
ATOM	48150	CA	THR	P	22	113.007	74.801	4.986	1.00	70.24	PS16
ATOM	48151	CB	THR	P	22	114.266	74.803	5.864	1.00	37.56	PS16
ATOM	48152	OG1	THR	P	22	115.373	74.322	5.098	1.00	37.56	PS16
ATOM	48153	CG2	THR	P	22	114.079	73.896	7.063	1.00	37.56	PS16
ATOM	48154	C	THR	P	22	112.729	73.366	4.627	1.00	70.24	PS16
ATOM	48155	O	THR	P	22	111.895	72.724	5.257	1.00	70.24	PS16
ATOM	48156	N	ASP	P	23	113.416	72.852	3.618	1.00	52.37	PS16
ATOM	48157	CA	ASP	P	23	113.197	71.464	3.279	1.00	52.37	PS16
ATOM	48158	CB	ASP	P	23	113.828	71.106	1.954	1.00	49.63	PS16
ATOM	48159	CG	ASP	P	23	113.708	69.643	1.658	1.00	49.63	PS16
ATOM	48160	OD1	ASP	P	23	114.541	68.875	2.177	1.00	49.63	PS16
ATOM	48161	OD2	ASP	P	23	112.771	69.255	0.934	1.00	49.63	PS16
ATOM	48162	C	ASP	P	23	113.837	70.665	4.403	1.00	52.37	PS16
ATOM	48163	O	ASP	P	23	114.800	71.127	5.012	1.00	52.37	PS16
ATOM	48164	N	ALA	P	24	113.300	69.477	4.678	1.00	56.11	PS16
ATOM	48165	CA	ALA	P	24	113.776	68.624	5.768	1.00	56.11	PS16
ATOM	48166	CB	ALA	P	24	112.868	67.408	5.891	1.00	154.84	PS16
ATOM	48167	C	ALA	P	24	115.228	68.172	5.676	1.00	56.11	PS16
ATOM	48168	O	ALA	P	24	115.888	67.943	6.683	1.00	56.11	PS16
ATOM	48169	N	ARG	P	25	115.742	68.076	4.468	1.00	50.60	PS16
ATOM	48170	CA	ARG	P	25	117.093	67.604	4.272	1.00	50.60	PS16
ATOM	48171	CB	ARG	P	25	117.117	66.982	2.878	1.00	58.03	PS16
ATOM	48172	CG	ARG	P	25	115.945	66.013	2.707	1.00	58.03	PS16
ATOM	48173	CD	ARG	P	25	115.641	65.642	1.263	1.00	58.03	PS16
ATOM	48174	NE	ARG	P	25	114.910	66.693	0.563	1.00	58.03	PS16
ATOM	48175	CZ	ARG	P	25	114.407	66.570	-0.664	1.00	58.03	PS16
ATOM	48176	NH1	ARG	P	25	114.552	65.434	-1.336	1.00	58.03	PS16
ATOM	48177	NH2	ARG	P	25	113.763	67.586	-1.225	1.00	58.03	PS16
ATOM	48178	C	ARG	P	25	118.277	68.583	4.503	1.00	50.60	PS16
ATOM	48179	O	ARG	P	25	119.439	68.165	4.494	1.00	50.60	PS16



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ATOM	48180	N	ARG	P	26	118.002	69.866	4.736	1.00	40.36	PS16
ATOM	48181	CA	ARG	P	26	119.073	70.857	4.951	1.00	40.36	PS16
ATOM	48182	CB	ARG	P	26	118.493	72.267	4.944	1.00	71.31	PS16
ATOM	48183	CG	ARG	P	26	118.445	72.945	3.591	1.00	71.31	PS16
ATOM	48184	CD	ARG	P	26	119.798	73.518	3.176	1.00	71.31	PS16
ATOM	48185	NE	ARG	P	26	119.649	74.327	1.971	1.00	71.31	PS16
ATOM	48186	CZ	ARG	P	26	119.284	73.845	0.786	1.00	71.31	PS16
ATOM	48187	NH1	ARG	P	26	119.042	72.552	0.641	1.00	71.31	PS16
ATOM	48188	NH2	ARG	P	26	119.131	74.658	-0.252	1.00	71.31	PS16
ATOM	48189	C	ARG	P	26	119.829	70.697	6.256	1.00	40.36	PS16
ATOM	48190	O	ARG	P	26	119.390	69.973	7.132	1.00	40.36	PS16
ATOM	48191	N	LYS	P	27	120.972	71.359	6.390	1.00	36.63	PS16
ATOM	48192	CA	LYS	P	27	121.694	71.320	7.669	1.00	36.63	PS16
ATOM	48193	CB	LYS	P	27	123.059	72.012	7.567	1.00	63.84	PS16
ATOM	48194	CG	LYS	P	27	123.957	71.529	6.461	1.00	63.84	PS16
ATOM	48195	CD	LYS	P	27	125.257	72.298	6.505	1.00	63.84	PS16
ATOM	48196	CE	LYS	P	27	126.183	71.854	5.390	1.00	63.84	PS16
ATOM	48197	NZ	LYS	P	27	125.520	71.928	4.049	1.00	63.84	PS16
ATOM	48198	C	LYS	P	27	120.800	72.150	8.610	1.00	36.63	PS16
ATOM	48199	O	LYS	P	27	120.100	73.052	8.148	1.00	36.63	PS16
ATOM	48200	N	ARG	P	28	120.814	71.904	9.913	1.00	56.00	PS16
ATOM	48201	CA	ARG	P	28	119.900	72.699	10.720	1.00	56.00	PS16
ATOM	48202	CB	ARG	P	28	119.876	72.262	12.179	1.00	33.65	PS16
ATOM	48203	CG	ARG	P	28	120.993	72.739	13.029	1.00	33.65	PS16
ATOM	48204	CD	ARG	P	28	120.597	72.480	14.451	1.00	33.65	PS16
ATOM	48205	NE	ARG	P	28	121.742	72.268	15.335	1.00	33.65	PS16
ATOM	48206	CZ	ARG	P	28	122.751	73.126	15.500	1.00	33.65	PS16
ATOM	48207	NH1	ARG	P	28	122.771	74.270	14.828	1.00	33.65	PS16
ATOM	48208	NH2	ARG	P	28	123.730	72.849	16.355	1.00	33.65	PS16
ATOM	48209	C	ARG	P	28	120.222	74.164	10.639	1.00	56.00	PS16
ATOM	48210	O	ARG	P	28	119.336	75.008	10.797	1.00	56.00	PS16
ATOM	48211	N	ASP	P	29	121.484	74.470	10.376	1.00	42.55	PS16
ATOM	48212	CA	ASP	P	29	121.904	75.864	10.277	1.00	42.55	PS16
ATOM	48213	CB	ASP	P	29	123.177	76.094	11.092	1.00	51.73	PS16
ATOM	48214	CG	ASP	P	29	122.972	75.872	12.578	1.00	51.73	PS16
ATOM	48215	OD1	ASP	P	29	123.963	76.008	13.338	1.00	51.73	PS16
ATOM	48216	OD2	ASP	P	29	121.829	75.569	12.982	1.00	51.73	PS16
ATOM	48217	C	ASP	P	29	122.157	76.286	8.834	1.00	42.55	PS16
ATOM	48218	O	ASP	P	29	122.739	77.349	8.593	1.00	42.55	PS16
ATOM	48219	N	GLY	P	30	121.707	75.461	7.888	1.00	48.59	PS16
ATOM	48220	CA	GLY	P	30	121.918	75.734	6.472	1.00	48.59	PS16
ATOM	48221	C	GLY	P	30	120.940	76.696	5.833	1.00	48.59	PS16
ATOM	48222	O	GLY	P	30	120.193	77.405	6.526	1.00	48.59	PS16
ATOM	48223	N	LYS	P	31	120.928	76.712	4.500	1.00	44.60	PS16
ATOM	48224	CA	LYS	P	31	120.039	77.617	3.777	1.00	44.60	PS16
ATOM	48225	CB	LYS	P	31	120.363	77.690	2.286	1.00	67.62	PS16
ATOM	48226	CG	LYS	P	31	119.400	78.632	1.573	1.00	67.62	PS16
ATOM	48227	CD	LYS	P	31	119.843	78.982	0.178	1.00	67.62	PS16
ATOM	48228	CE	LYS	P	31	119.591	77.841	-0.790	1.00	67.62	PS16
ATOM	48229	NZ	LYS	P	31	120.045	78.204	-2.168	1.00	67.62	PS16
ATOM	48230	C	LYS	P	31	118.575	77.305	3.907	1.00	44.60	PS16
ATOM	48231	O	LYS	P	31	118.090	76.284	3.420	1.00	44.60	PS16
ATOM	48232	N	TYR	P	32	117.867	78.221	4.545	1.00	36.88	PS16
ATOM	48233	CA	TYR	P	32	116.444	78.058	4.723	1.00	36.88	PS16
ATOM	48234	CB	TYR	P	32	116.039	78.578	6.082	1.00	58.34	PS16
ATOM	48235	CG	TYR	P	32	116.509	79.959	6.426	1.00	58.34	PS16
ATOM	48236	CD1	TYR	P	32	117.863	80.255	6.522	1.00	58.34	PS16
ATOM	48237	CE1	TYR	P	32	118.295	81.505	6.963	1.00	58.34	PS16
ATOM	48238	CD2	TYR	P	32	115.597	80.944	6.765	1.00	58.34	PS16
ATOM	48239	CE2	TYR	P	32	116.016	82.191	7.207	1.00	58.34	PS16
ATOM	48240	CZ	TYR	P	32	117.362	82.466	7.308	1.00	58.34	PS16
ATOM	48241	OH	TYR	P	32	117.759	83.694	7.776	1.00	58.34	PS16
ATOM	48242	C	TYR	P	32	115.590	78.719	3.649	1.00	36.88	PS16
ATOM	48243	O	TYR	P	32	115.994	79.692	3.028	1.00	36.88	PS16
ATOM	48244	N	ILE	P	33	114.403	78.166	3.431	1.00	64.02	PS16
ATOM	48245	CA	ILE	P	33	113.481	78.690	2.434	1.00	64.02	PS16
ATOM	48246	CB	ILE	P	33	112.202	77.819	2.335	1.00	71.02	PS16
ATOM	48247	CG2	ILE	P	33	111.067	78.641	1.791	1.00	71.02	PS16
ATOM	48248	CG1	ILE	P	33	112.430	76.616	1.415	1.00	71.02	PS16
ATOM	48249	CD1	ILE	P	33	113.492	75.638	1.891	1.00	71.02	PS16
ATOM	48250	C	ILE	P	33	113.065	80.112	2.774	1.00	64.02	PS16
ATOM	48251	O	ILE	P	33	113.003	80.971	1.894	1.00	64.02	PS16
ATOM	48252	N	GLU	P	34	112.790	80.350	4.054	1.00	54.38	PS16
ATOM	48253	CA	GLU	P	34	112.348	81.652	4.525	1.00	54.38	PS16
ATOM	48254	CB	GLU	P	34	110.935	81.930	4.026	1.00	55.30	PS16
ATOM	48255	CG	GLU	P	34	110.354	83.224	4.555	1.00	55.30	PS16
ATOM	48256	CD	GLU	P	34	108.859	83.348	4.315	1.00	55.30	PS16



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ATOM	48257	OE1	GLU	P	34	108.390	82.960	3.218	1.00	55.30	PS16
ATOM	48258	OE2	GLU	P	34	108.157	83.849	5.223	1.00	55.30	PS16
ATOM	48259	C	GLU	P	34	112.328	81.704	6.043	1.00	54.38	PS16
ATOM	48260	O	GLU	P	34	112.050	80.697	6.699	1.00	54.38	PS16
ATOM	48261	N	LYS	P	35	112.610	82.877	6.603	1.00	61.63	PS16
ATOM	48262	CA	LYS	P	35	112.587	83.048	8.050	1.00	61.63	PS16
ATOM	48263	CB	LYS	P	35	113.640	84.067	8.491	1.00	57.91	PS16
ATOM	48264	CG	LYS	P	35	113.682	84.357	10.007	1.00	57.91	PS16
ATOM	48265	CD	LYS	P	35	114.873	85.282	10.371	1.00	57.91	PS16
ATOM	48266	CE	LYS	P	35	114.989	85.572	11.879	1.00	57.91	PS16
ATOM	48267	NZ	LYS	P	35	116.258	86.298	12.269	1.00	57.91	PS16
ATOM	48268	C	LYS	P	35	111.207	83.569	8.396	1.00	61.63	PS16
ATOM	48269	O	LYS	P	35	110.702	84.471	7.731	1.00	61.63	PS16
ATOM	48270	N	ILE	P	36	110.579	82.998	9.417	1.00	54.83	PS16
ATOM	48271	CA	ILE	P	36	109.266	83.475	9.802	1.00	54.83	PS16
ATOM	48272	CB	ILE	P	36	108.164	82.479	9.460	1.00	35.16	PS16
ATOM	48273	CG2	ILE	P	36	108.145	82.228	7.974	1.00	35.16	PS16
ATOM	48274	CG1	ILE	P	36	108.381	81.186	10.246	1.00	35.16	PS16
ATOM	48275	CD1	ILE	P	36	107.153	80.297	10.312	1.00	35.16	PS16
ATOM	48276	C	ILE	P	36	109.198	83.760	11.285	1.00	54.83	PS16
ATOM	48277	O	ILE	P	36	108.116	83.954	11.820	1.00	54.83	PS16
ATOM	48278	N	GLY	P	37	110.343	83.790	11.957	1.00	61.88	PS16
ATOM	48279	CA	GLY	P	37	110.318	84.087	13.378	1.00	61.88	PS16
ATOM	48280	C	GLY	P	37	111.595	83.764	14.116	1.00	61.88	PS16
ATOM	48281	O	GLY	P	37	112.469	83.092	13.581	1.00	61.88	PS16
ATOM	48282	N	TYR	P	38	111.709	84.250	15.344	1.00	60.51	PS16
ATOM	48283	CA	TYR	P	38	112.888	83.980	16.148	1.00	60.51	PS16
ATOM	48284	CB	TYR	P	38	113.844	85.177	16.126	1.00	77.52	PS16
ATOM	48285	CG	TYR	P	38	113.279	86.478	16.654	1.00	77.52	PS16
ATOM	48286	CD1	TYR	P	38	113.316	86.779	18.018	1.00	77.52	PS16
ATOM	48287	CE1	TYR	P	38	112.827	87.998	18.501	1.00	77.52	PS16
ATOM	48288	CD2	TYR	P	38	112.734	87.426	15.784	1.00	77.52	PS16
ATOM	48289	CE2	TYR	P	38	112.244	88.644	16.254	1.00	77.52	PS16
ATOM	48290	CZ	TYR	P	38	112.292	88.924	17.610	1.00	77.52	PS16
ATOM	48291	OH	TYR	P	38	111.799	90.122	18.076	1.00	77.52	PS16
ATOM	48292	C	TYR	P	38	112.486	83.623	17.572	1.00	60.51	PS16
ATOM	48293	O	TYR	P	38	111.326	83.805	17.966	1.00	60.51	PS16
ATOM	48294	N	TYR	P	39	113.445	83.122	18.346	1.00	71.68	PS16
ATOM	48295	CA	TYR	P	39	113.167	82.688	19.710	1.00	71.68	PS16
ATOM	48296	CB	TYR	P	39	112.503	81.305	19.657	1.00	64.88	PS16
ATOM	48297	CG	TYR	P	39	112.527	80.525	20.943	1.00	64.88	PS16
ATOM	48298	CD1	TYR	P	39	112.128	81.107	22.141	1.00	64.88	PS16
ATOM	48299	CE1	TYR	P	39	112.090	80.376	23.320	1.00	64.88	PS16
ATOM	48300	CD2	TYR	P	39	112.896	79.189	20.953	1.00	64.88	PS16
ATOM	48301	CE2	TYR	P	39	112.858	78.448	22.125	1.00	64.88	PS16
ATOM	48302	CZ	TYR	P	39	112.453	79.048	23.305	1.00	64.88	PS16
ATOM	48303	OH	TYR	P	39	112.399	78.321	24.471	1.00	64.88	PS16
ATOM	48304	C	TYR	P	39	114.411	82.639	20.590	1.00	71.68	PS16
ATOM	48305	O	TYR	P	39	115.430	82.057	20.209	1.00	71.68	PS16
ATOM	48306	N	ASP	P	40	114.307	83.247	21.770	1.00	61.01	PS16
ATOM	48307	CA	ASP	P	40	115.399	83.306	22.738	1.00	61.01	PS16
ATOM	48308	CB	ASP	P	40	115.593	84.746	23.197	1.00	73.44	PS16
ATOM	48309	CG	ASP	P	40	116.595	84.872	24.319	1.00	73.44	PS16
ATOM	48310	OD1	ASP	P	40	116.736	85.991	24.854	1.00	73.44	PS16
ATOM	48311	OD2	ASP	P	40	117.242	83.861	24.665	1.00	73.44	PS16
ATOM	48312	C	ASP	P	40	115.061	82.422	23.939	1.00	61.01	PS16
ATOM	48313	O	ASP	P	40	114.474	82.889	24.913	1.00	61.01	PS16
ATOM	48314	N	PRO	P	41	115.456	81.137	23.892	1.00	64.79	PS16
ATOM	48315	CD	PRO	P	41	116.381	80.605	22.879	1.00	117.99	PS16
ATOM	48316	CA	PRO	P	41	115.224	80.133	24.930	1.00	64.79	PS16
ATOM	48317	CB	PRO	P	41	116.224	79.043	24.584	1.00	117.99	PS16
ATOM	48318	CG	PRO	P	41	116.293	79.127	23.132	1.00	117.99	PS16
ATOM	48319	C	PRO	P	41	115.431	80.628	26.340	1.00	64.79	PS16
ATOM	48320	O	PRO	P	41	114.902	80.045	27.282	1.00	64.79	PS16
ATOM	48321	N	ARG	P	42	116.190	81.705	26.497	1.00	50.59	PS16
ATOM	48322	CA	ARG	P	42	116.471	82.204	27.832	1.00	50.59	PS16
ATOM	48323	CB	ARG	P	42	117.972	82.231	28.039	1.00	71.15	PS16
ATOM	48324	CG	ARG	P	42	118.611	80.937	27.610	1.00	71.15	PS16
ATOM	48325	CD	ARG	P	42	120.061	80.955	27.928	1.00	71.15	PS16
ATOM	48326	NE	ARG	P	42	120.697	82.118	27.340	1.00	71.15	PS16
ATOM	48327	CZ	ARG	P	42	121.735	82.717	27.895	1.00	71.15	PS16
ATOM	48328	NH1	ARG	P	42	122.225	82.246	29.039	1.00	71.15	PS16
ATOM	48329	NH2	ARG	P	42	122.277	83.776	27.313	1.00	71.15	PS16
ATOM	48330	C	ARG	P	42	115.882	83.555	28.159	1.00	50.59	PS16
ATOM	48331	O	ARG	P	42	116.245	84.178	29.164	1.00	50.59	PS16
ATOM	48332	N	LYS	P	43	114.960	83.993	27.311	1.00	72.53	PS16
ATOM	48333	CA	LYS	P	43	114.292	85.265	27.495	1.00	72.53	PS16



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ATOM	48334	CB	LYS	P	43	113.059	85.099	28.386	1.00	64.07	PS16
ATOM	48335	CG	LYS	P	43	112.307	83.770	28.261	1.00	64.07	PS16
ATOM	48336	CD	LYS	P	43	112.968	82.628	29.029	1.00	64.07	PS16
ATOM	48337	CE	LYS	P	43	112.085	81.384	29.038	1.00	64.07	PS16
ATOM	48338	NZ	LYS	P	43	112.738	80.262	29.787	1.00	64.07	PS16
ATOM	48339	C	LYS	P	43	115.247	86.250	28.155	1.00	72.53	PS16
ATOM	48340	O	LYS	P	43	115.070	86.590	29.324	1.00	72.53	PS16
ATOM	48341	N	THR	P	44	116.275	86.678	27.426	1.00	67.34	PS16
ATOM	48342	CA	THR	P	44	117.233	87.643	27.964	1.00	67.34	PS16
ATOM	48343	CB	THR	P	44	118.641	87.491	27.315	1.00	79.55	PS16
ATOM	48344	OG1	THR	P	44	118.533	87.509	25.884	1.00	79.55	PS16
ATOM	48345	CG2	THR	P	44	119.282	86.192	27.756	1.00	79.55	PS16
ATOM	48346	C	THR	P	44	116.701	89.052	27.719	1.00	67.34	PS16
ATOM	48347	O	THR	P	44	117.293	90.048	28.147	1.00	67.34	PS16
ATOM	48348	N	THR	P	45	115.570	89.112	27.018	1.00	70.25	PS16
ATOM	48349	CA	THR	P	45	114.912	90.369	26.697	1.00	70.25	PS16
ATOM	48350	CB	THR	P	45	115.360	90.924	25.368	1.00	52.47	PS16
ATOM	48351	OG1	THR	P	45	114.674	90.227	24.320	1.00	52.47	PS16
ATOM	48352	CG2	THR	P	45	116.849	90.761	25.211	1.00	52.47	PS16
ATOM	48353	C	THR	P	45	113.410	90.158	26.577	1.00	70.25	PS16
ATOM	48354	O	THR	P	45	112.949	89.089	26.162	1.00	70.25	PS16
ATOM	48355	N	PRO	P	46	112.630	91.198	26.900	1.00	70.31	PS16
ATOM	48356	CD	PRO	P	46	113.108	92.577	27.071	1.00	64.15	PS16
ATOM	48357	CA	PRO	P	46	111.171	91.177	26.848	1.00	70.31	PS16
ATOM	48358	CB	PRO	P	46	110.802	92.633	27.075	1.00	64.15	PS16
ATOM	48359	CG	PRO	P	46	111.968	93.355	26.500	1.00	64.15	PS16
ATOM	48360	C	PRO	P	46	110.639	90.652	25.536	1.00	70.31	PS16
ATOM	48361	O	PRO	P	46	109.600	90.013	25.509	1.00	70.31	PS16
ATOM	48362	N	ASP	P	47	111.342	90.919	24.445	1.00	68.03	PS16
ATOM	48363	CA	ASP	P	47	110.881	90.435	23.158	1.00	68.03	PS16
ATOM	48364	CB	ASP	P	47	111.079	91.504	22.090	1.00	127.27	PS16
ATOM	48365	CG	ASP	P	47	110.505	91.094	20.757	1.00	127.27	PS16
ATOM	48366	OD1	ASP	P	47	110.650	91.859	19.783	1.00	127.27	PS16
ATOM	48367	OD2	ASP	P	47	109.903	90.003	20.683	1.00	127.27	PS16
ATOM	48368	C	ASP	P	47	111.643	89.173	22.773	1.00	68.03	PS16
ATOM	48369	O	ASP	P	47	112.567	89.231	21.965	1.00	68.03	PS16
ATOM	48370	N	TRP	P	48	111.243	88.033	23.338	1.00	56.50	PS16
ATOM	48371	CA	TRP	P	48	111.917	86.763	23.060	1.00	56.50	PS16
ATOM	48372	CB	TRP	P	48	112.394	86.108	24.357	1.00	87.82	PS16
ATOM	48373	CG	TRP	P	48	111.299	85.877	25.338	1.00	87.82	PS16
ATOM	48374	CD2	TRP	P	48	110.753	84.618	25.742	1.00	87.82	PS16
ATOM	48375	CE2	TRP	P	48	109.749	84.884	26.687	1.00	87.82	PS16
ATOM	48376	CE3	TRP	P	48	111.018	83.289	25.398	1.00	87.82	PS16
ATOM	48377	CD1	TRP	P	48	110.622	86.825	26.031	1.00	87.82	PS16
ATOM	48378	NE1	TRP	P	48	109.690	86.241	26.845	1.00	87.82	PS16
ATOM	48379	CZ2	TRP	P	48	109.007	83.873	27.297	1.00	87.82	PS16
ATOM	48380	CZ3	TRP	P	48	110.275	82.278	26.012	1.00	87.82	PS16
ATOM	48381	CH2	TRP	P	48	109.286	82.581	26.948	1.00	87.82	PS16
ATOM	48382	C	TRP	P	48	111.132	85.728	22.272	1.00	56.50	PS16
ATOM	48383	O	TRP	P	48	111.247	84.540	22.545	1.00	56.50	PS16
ATOM	48384	N	LEU	P	49	110.339	86.171	21.303	1.00	63.02	PS16
ATOM	48385	CA	LEU	P	49	109.586	85.247	20.453	1.00	63.02	PS16
ATOM	48386	CB	LEU	P	49	108.844	84.208	21.299	1.00	45.54	PS16
ATOM	48387	CG	LEU	P	49	107.961	83.276	20.468	1.00	45.54	PS16
ATOM	48388	CD1	LEU	P	49	108.809	82.551	19.446	1.00	45.54	PS16
ATOM	48389	CD2	LEU	P	49	107.248	82.302	21.377	1.00	45.54	PS16
ATOM	48390	C	LEU	P	49	108.597	85.901	19.491	1.00	63.02	PS16
ATOM	48391	O	LEU	P	49	107.410	85.973	19.768	1.00	63.02	PS16
ATOM	48392	N	LYS	P	50	109.088	86.391	18.365	1.00	47.32	PS16
ATOM	48393	CA	LYS	P	50	108.207	86.991	17.373	1.00	47.32	PS16
ATOM	48394	CB	LYS	P	50	108.972	87.986	16.492	1.00	121.73	PS16
ATOM	48395	CG	LYS	P	50	108.265	88.362	15.192	1.00	121.73	PS16
ATOM	48396	CD	LYS	P	50	109.119	89.314	14.362	1.00	121.73	PS16
ATOM	48397	CE	LYS	P	50	108.532	89.547	12.974	1.00	121.73	PS16
ATOM	48398	NZ	LYS	P	50	108.559	88.319	12.130	1.00	121.73	PS16
ATOM	48399	C	LYS	P	50	107.778	85.792	16.553	1.00	47.32	PS16
ATOM	48400	O	LYS	P	50	108.460	84.767	16.572	1.00	47.32	PS16
ATOM	48401	N	VAL	P	51	106.664	85.881	15.844	1.00	60.82	PS16
ATOM	48402	CA	VAL	P	51	106.285	84.720	15.079	1.00	60.82	PS16
ATOM	48403	CB	VAL	P	51	105.373	83.801	15.899	1.00	70.77	PS16
ATOM	48404	CG1	VAL	P	51	104.903	82.632	15.056	1.00	70.77	PS16
ATOM	48405	CG2	VAL	P	51	106.136	83.270	17.101	1.00	70.77	PS16
ATOM	48406	C	VAL	P	51	105.652	84.995	13.740	1.00	60.82	PS16
ATOM	48407	O	VAL	P	51	105.573	84.098	12.917	1.00	60.82	PS16
ATOM	48408	N	ASP	P	52	105.211	86.216	13.489	1.00	55.17	PS16
ATOM	48409	CA	ASP	P	52	104.607	86.493	12.187	1.00	55.17	PS16
ATOM	48410	CB	ASP	P	52	105.683	86.565	11.091	1.00	100.67	PS16



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ATOM	48411	CG	ASP	P	52	105.088	86.767	9.698	1.00100.67	PS16
ATOM	48412	OD1	ASP	P	52	105.181	87.884	9.143	1.00100.67	PS16
ATOM	48413	OD2	ASP	P	52	104.510	85.809	9.153	1.00100.67	PS16
ATOM	48414	C	ASP	P	52	103.637	85.367	11.855	1.00 55.17	PS16
ATOM	48415	O	ASP	P	52	103.791	84.663	10.846	1.00 55.17	PS16
ATOM	48416	N	VAL	P	53	102.645	85.187	12.716	1.00 63.95	PS16
ATOM	48417	CA	VAL	P	53	101.674	84.123	12.511	1.00 63.95	PS16
ATOM	48418	CB	VAL	P	53	100.507	84.263	13.485	1.00 42.58	PS16
ATOM	48419	CG1	VAL	P	53	100.966	85.033	14.725	1.00 42.58	PS16
ATOM	48420	CG2	VAL	P	53	99.340	84.931	12.800	1.00 42.58	PS16
ATOM	48421	C	VAL	P	53	101.152	84.151	11.076	1.00 63.95	PS16
ATOM	48422	O	VAL	P	53	100.770	83.128	10.512	1.00 63.95	PS16
ATOM	48423	N	GLU	P	54	101.139	85.336	10.490	1.00 70.22	PS16
ATOM	48424	CA	GLU	P	54	100.678	85.475	9.124	1.00 70.22	PS16
ATOM	48425	CB	GLU	P	54	100.971	86.892	8.618	1.00181.17	PS16
ATOM	48426	CG	GLU	P	54	100.903	87.045	7.106	1.00181.17	PS16
ATOM	48427	CD	GLU	P	54	99.719	86.318	6.504	1.00181.17	PS16
ATOM	48428	OE1	GLU	P	54	98.576	86.597	6.917	1.00181.17	PS16
ATOM	48429	OE2	GLU	P	54	99.932	85.464	5.618	1.00181.17	PS16
ATOM	48430	C	GLU	P	54	101.360	84.446	8.224	1.00 70.22	PS16
ATOM	48431	O	GLU	P	54	100.716	83.519	7.732	1.00 70.22	PS16
ATOM	48432	N	ARG	P	55	102.665	84.618	8.023	1.00 88.74	PS16
ATOM	48433	CA	ARG	P	55	103.445	83.727	7.168	1.00 88.74	PS16
ATOM	48434	CB	ARG	P	55	104.924	84.107	7.216	1.00 64.28	PS16
ATOM	48435	CG	ARG	P	55	105.275	85.377	6.448	1.00 64.28	PS16
ATOM	48436	CD	ARG	P	55	105.638	85.051	5.012	1.00 64.28	PS16
ATOM	48437	NE	ARG	P	55	104.484	84.690	4.195	1.00 64.28	PS16
ATOM	48438	CZ	ARG	P	55	104.574	84.072	3.021	1.00 64.28	PS16
ATOM	48439	NH1	ARG	P	55	105.764	83.736	2.536	1.00 64.28	PS16
ATOM	48440	NH2	ARG	P	55	103.480	83.814	2.315	1.00 64.28	PS16
ATOM	48441	C	ARG	P	55	103.287	82.271	7.552	1.00 88.74	PS16
ATOM	48442	O	ARG	P	55	103.025	81.421	6.696	1.00 88.74	PS16
ATOM	48443	N	ALA	P	56	103.458	81.988	8.838	1.00 58.60	PS16
ATOM	48444	CA	ALA	P	56	103.323	80.625	9.332	1.00 58.60	PS16
ATOM	48445	CB	ALA	P	56	103.138	80.639	10.850	1.00 40.29	PS16
ATOM	48446	C	ALA	P	56	102.126	79.948	8.655	1.00 58.60	PS16
ATOM	48447	O	ALA	P	56	102.277	79.017	7.855	1.00 58.60	PS16
ATOM	48448	N	ARG	P	57	100.936	80.439	8.973	1.00 59.94	PS16
ATOM	48449	CA	ARG	P	57	99.718	79.891	8.410	1.00 59.94	PS16
ATOM	48450	CB	ARG	P	57	98.545	80.829	8.680	1.00 82.42	PS16
ATOM	48451	CG	ARG	P	57	98.182	80.986	10.149	1.00 82.42	PS16
ATOM	48452	CD	ARG	P	57	97.323	82.230	10.309	1.00 82.42	PS16
ATOM	48453	NE	ARG	P	57	96.984	82.558	11.693	1.00 82.42	PS16
ATOM	48454	CZ	ARG	P	57	96.011	81.980	12.384	1.00 82.42	PS16
ATOM	48455	NH1	ARG	P	57	95.261	81.030	11.834	1.00 82.42	PS16
ATOM	48456	NH2	ARG	P	57	95.785	82.365	13.625	1.00 82.42	PS16
ATOM	48457	C	ARG	P	57	99.837	79.630	6.915	1.00 59.94	PS16
ATOM	48458	O	ARG	P	57	99.265	78.663	6.412	1.00 59.94	PS16
ATOM	48459	N	TYR	P	58	100.562	80.480	6.193	1.00 66.66	PS16
ATOM	48460	CA	TYR	P	58	100.704	80.241	4.762	1.00 66.66	PS16
ATOM	48461	CB	TYR	P	58	101.551	81.295	4.058	1.00 61.01	PS16
ATOM	48462	CG	TYR	P	58	101.983	80.810	2.682	1.00 61.01	PS16
ATOM	48463	CD1	TYR	P	58	103.331	80.552	2.388	1.00 61.01	PS16
ATOM	48464	CE1	TYR	P	58	103.725	80.025	1.137	1.00 61.01	PS16
ATOM	48465	CD2	TYR	P	58	101.038	80.535	1.696	1.00 61.01	PS16
ATOM	48466	CE2	TYR	P	58	101.415	80.010	0.445	1.00 61.01	PS16
ATOM	48467	CZ	TYR	P	58	102.754	79.756	0.170	1.00 61.01	PS16
ATOM	48468	OH	TYR	P	58	103.107	79.226	-1.061	1.00 61.01	PS16
ATOM	48469	C	TYR	P	58	101.393	78.915	4.544	1.00 66.66	PS16
ATOM	48470	O	TYR	P	58	100.879	78.034	3.862	1.00 66.66	PS16
ATOM	48471	N	TRP	P	59	102.585	78.795	5.111	1.00 88.16	PS16
ATOM	48472	CA	TRP	P	59	103.356	77.582	4.958	1.00 88.16	PS16
ATOM	48473	CB	TRP	P	59	104.648	77.695	5.749	1.00 48.86	PS16
ATOM	48474	CG	TRP	P	59	105.604	78.547	5.014	1.00 48.86	PS16
ATOM	48475	CD2	TRP	P	59	106.117	78.291	3.714	1.00 48.86	PS16
ATOM	48476	CE2	TRP	P	59	106.921	79.384	3.362	1.00 48.86	PS16
ATOM	48477	CE3	TRP	P	59	105.969	77.240	2.808	1.00 48.86	PS16
ATOM	48478	CD1	TRP	P	59	106.105	79.756	5.398	1.00 48.86	PS16
ATOM	48479	NE1	TRP	P	59	106.901	80.267	4.409	1.00 48.86	PS16
ATOM	48480	CZ2	TRP	P	59	107.578	79.456	2.142	1.00 48.86	PS16
ATOM	48481	CZ3	TRP	P	59	106.621	77.308	1.598	1.00 48.86	PS16
ATOM	48482	CH2	TRP	P	59	107.414	78.407	1.274	1.00 48.86	PS16
ATOM	48483	C	TRP	P	59	102.561	76.370	5.368	1.00 88.16	PS16
ATOM	48484	O	TRP	P	59	102.436	75.413	4.597	1.00 88.16	PS16
ATOM	48485	N	LEU	P	60	102.016	76.410	6.575	1.00 54.70	PS16
ATOM	48486	CA	LEU	P	60	101.202	75.306	7.040	1.00 54.70	PS16
ATOM	48487	CB	LEU	P	60	100.559	75.663	8.375	1.00 49.02	PS16



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ATOM	48488	CG	LEU	P	60	101.500	75.769	9.568	1.00	49.02	PS16
ATOM	48489	CD1	LEU	P	60	100.753	76.364	10.741	1.00	49.02	PS16
ATOM	48490	CD2	LEU	P	60	102.058	74.385	9.919	1.00	49.02	PS16
ATOM	48491	C	LEU	P	60	100.117	75.027	5.987	1.00	54.70	PS16
ATOM	48492	O	LEU	P	60	99.719	73.880	5.777	1.00	54.70	PS16
ATOM	48493	N	SER	P	61	99.650	76.078	5.317	1.00	62.70	PS16
ATOM	48494	CA	SER	P	61	98.627	75.920	4.296	1.00	62.70	PS16
ATOM	48495	CB	SER	P	61	98.141	77.290	3.804	1.00	99.36	PS16
ATOM	48496	OG	SER	P	61	98.913	77.759	2.710	1.00	99.36	PS16
ATOM	48497	C	SER	P	61	99.154	75.101	3.110	1.00	62.70	PS16
ATOM	48498	O	SER	P	61	98.433	74.860	2.135	1.00	62.70	PS16
ATOM	48499	N	VAL	P	62	100.409	74.673	3.177	1.00	74.14	PS16
ATOM	48500	CA	VAL	P	62	100.943	73.889	2.081	1.00	74.14	PS16
ATOM	48501	CB	VAL	P	62	101.558	74.763	0.979	1.00	43.13	PS16
ATOM	48502	CG1	VAL	P	62	100.927	74.377	-0.361	1.00	43.13	PS16
ATOM	48503	CG2	VAL	P	62	101.383	76.246	1.304	1.00	43.13	PS16
ATOM	48504	C	VAL	P	62	101.966	72.835	2.441	1.00	74.14	PS16
ATOM	48505	O	VAL	P	62	103.017	72.730	1.802	1.00	74.14	PS16
ATOM	48506	N	GLY	P	63	101.670	72.060	3.475	1.00	79.27	PS16
ATOM	48507	CA	GLY	P	63	102.563	70.979	3.839	1.00	79.27	PS16
ATOM	48508	C	GLY	P	63	103.747	71.249	4.728	1.00	79.27	PS16
ATOM	48509	O	GLY	P	63	104.519	70.330	5.009	1.00	79.27	PS16
ATOM	48510	N	ALA	P	64	103.932	72.490	5.149	1.00	57.48	PS16
ATOM	48511	CA	ALA	P	64	105.038	72.760	6.045	1.00	57.48	PS16
ATOM	48512	CB	ALA	P	64	105.082	74.235	6.419	1.00	115.07	PS16
ATOM	48513	C	ALA	P	64	104.652	71.910	7.249	1.00	57.48	PS16
ATOM	48514	O	ALA	P	64	103.471	71.843	7.619	1.00	57.48	PS16
ATOM	48515	N	GLN	P	65	105.626	71.231	7.840	1.00	45.78	PS16
ATOM	48516	CA	GLN	P	65	105.331	70.397	8.986	1.00	45.78	PS16
ATOM	48517	CB	GLN	P	65	105.515	68.931	8.630	1.00	50.61	PS16
ATOM	48518	CG	GLN	P	65	104.611	68.004	9.412	1.00	50.61	PS16
ATOM	48519	CD	GLN	P	65	103.183	68.005	8.890	1.00	50.61	PS16
ATOM	48520	OE1	GLN	P	65	102.937	67.760	7.703	1.00	50.61	PS16
ATOM	48521	NE2	GLN	P	65	102.230	68.268	9.782	1.00	50.61	PS16
ATOM	48522	C	GLN	P	65	106.281	70.784	10.090	1.00	45.78	PS16
ATOM	48523	O	GLN	P	65	107.453	70.453	10.061	1.00	45.78	PS16
ATOM	48524	N	PRO	P	66	105.778	71.485	11.094	1.00	59.50	PS16
ATOM	48525	CD	PRO	P	66	104.354	71.834	11.212	1.00	38.99	PS16
ATOM	48526	CA	PRO	P	66	106.545	71.960	12.254	1.00	59.50	PS16
ATOM	48527	CB	PRO	P	66	105.511	72.773	13.034	1.00	38.99	PS16
ATOM	48528	CG	PRO	P	66	104.219	72.066	12.685	1.00	38.99	PS16
ATOM	48529	C	PRO	P	66	107.223	70.931	13.153	1.00	59.50	PS16
ATOM	48530	O	PRO	P	66	106.689	69.846	13.389	1.00	59.50	PS16
ATOM	48531	N	THR	P	67	108.402	71.286	13.657	1.00	66.68	PS16
ATOM	48532	CA	THR	P	67	109.116	70.425	14.597	1.00	66.68	PS16
ATOM	48533	CB	THR	P	67	110.441	71.045	15.102	1.00	78.20	PS16
ATOM	48534	OG1	THR	P	67	111.395	71.125	14.039	1.00	78.20	PS16
ATOM	48535	CG2	THR	P	67	111.013	70.206	16.229	1.00	78.20	PS16
ATOM	48536	C	THR	P	67	108.173	70.474	15.776	1.00	66.68	PS16
ATOM	48537	O	THR	P	67	107.226	71.265	15.775	1.00	66.68	PS16
ATOM	48538	N	ASP	P	68	108.394	69.663	16.795	1.00	55.69	PS16
ATOM	48539	CA	ASP	P	68	107.478	69.796	17.891	1.00	55.69	PS16
ATOM	48540	CB	ASP	P	68	107.600	68.635	18.870	1.00	103.66	PS16
ATOM	48541	CG	ASP	P	68	106.851	67.400	18.378	1.00	103.66	PS16
ATOM	48542	OD1	ASP	P	68	105.935	67.566	17.538	1.00	103.66	PS16
ATOM	48543	OD2	ASP	P	68	107.161	66.274	18.825	1.00	103.66	PS16
ATOM	48544	C	ASP	P	68	107.765	71.145	18.525	1.00	55.69	PS16
ATOM	48545	O	ASP	P	68	106.948	72.065	18.396	1.00	55.69	PS16
ATOM	48546	N	THR	P	69	108.930	71.296	19.149	1.00	59.41	PS16
ATOM	48547	CA	THR	P	69	109.279	72.571	19.783	1.00	59.41	PS16
ATOM	48548	CB	THR	P	69	110.782	72.628	20.128	1.00	82.46	PS16
ATOM	48549	OG1	THR	P	69	111.077	71.618	21.099	1.00	82.46	PS16
ATOM	48550	CG2	THR	P	69	111.156	73.984	20.706	1.00	82.46	PS16
ATOM	48551	C	THR	P	69	108.903	73.791	18.929	1.00	59.41	PS16
ATOM	48552	O	THR	P	69	108.535	74.845	19.456	1.00	59.41	PS16
ATOM	48553	N	ALA	P	70	108.981	73.655	17.612	1.00	57.79	PS16
ATOM	48554	CA	ALA	P	70	108.615	74.765	16.751	1.00	57.79	PS16
ATOM	48555	CB	ALA	P	70	108.948	74.439	15.314	1.00	74.07	PS16
ATOM	48556	C	ALA	P	70	107.116	75.002	16.909	1.00	57.79	PS16
ATOM	48557	O	ALA	P	70	106.677	76.119	17.170	1.00	57.79	PS16
ATOM	48558	N	ARG	P	71	106.334	73.939	16.760	1.00	55.71	PS16
ATOM	48559	CA	ARG	P	71	104.890	74.045	16.898	1.00	55.71	PS16
ATOM	48560	CB	ARG	P	71	104.241	72.674	16.714	1.00	67.38	PS16
ATOM	48561	CG	ARG	P	71	102.753	72.694	16.958	1.00	67.38	PS16
ATOM	48562	CD	ARG	P	71	102.149	71.301	16.963	1.00	67.38	PS16
ATOM	48563	NE	ARG	P	71	101.516	70.966	15.690	1.00	67.38	PS16
ATOM	48564	CZ	ARG	P	71	102.001	70.071	14.835	1.00	67.38	PS16



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ATOM	48565	NH1	ARG	P	71	103.131	69.423	15.129	1.00	67.38	PS16
ATOM	48566	NH2	ARG	P	71	101.364	69.820	13.690	1.00	67.38	PS16
ATOM	48567	C	ARG	P	71	104.534	74.606	18.274	1.00	55.71	PS16
ATOM	48568	O	ARG	P	71	103.548	75.330	18.431	1.00	55.71	PS16
ATOM	48569	N	ARG	P	72	105.351	74.269	19.268	1.00	60.11	PS16
ATOM	48570	CA	ARG	P	72	105.140	74.733	20.639	1.00	60.11	PS16
ATOM	48571	CB	ARG	P	72	106.228	74.173	21.562	1.00	66.53	PS16
ATOM	48572	CG	ARG	P	72	106.069	74.579	23.021	1.00	66.53	PS16
ATOM	48573	CD	ARG	P	72	107.300	74.224	23.830	1.00	66.53	PS16
ATOM	48574	NE	ARG	P	72	107.899	75.421	24.404	1.00	66.53	PS16
ATOM	48575	CZ	ARG	P	72	109.202	75.683	24.392	1.00	66.53	PS16
ATOM	48576	NH1	ARG	P	72	110.043	74.819	23.833	1.00	66.53	PS16
ATOM	48577	NH2	ARG	P	72	109.661	76.814	24.925	1.00	66.53	PS16
ATOM	48578	C	ARG	P	72	105.153	76.258	20.732	1.00	60.11	PS16
ATOM	48579	O	ARG	P	72	104.297	76.859	21.383	1.00	60.11	PS16
ATOM	48580	N	LEU	P	73	106.151	76.863	20.087	1.00	56.27	PS16
ATOM	48581	CA	LEU	P	73	106.319	78.309	20.063	1.00	56.27	PS16
ATOM	48582	CB	LEU	P	73	107.707	78.668	19.536	1.00	75.21	PS16
ATOM	48583	CG	LEU	P	73	108.926	78.064	20.250	1.00	75.21	PS16
ATOM	48584	CD1	LEU	P	73	110.172	78.316	19.401	1.00	75.21	PS16
ATOM	48585	CD2	LEU	P	73	109.094	78.658	21.656	1.00	75.21	PS16
ATOM	48586	C	LEU	P	73	105.264	78.912	19.156	1.00	56.27	PS16
ATOM	48587	O	LEU	P	73	104.736	79.981	19.437	1.00	56.27	PS16
ATOM	48588	N	LEU	P	74	104.959	78.226	18.062	1.00	54.76	PS16
ATOM	48589	CA	LEU	P	74	103.960	78.737	17.151	1.00	54.76	PS16
ATOM	48590	CB	LEU	P	74	103.779	77.817	15.952	1.00	44.13	PS16
ATOM	48591	CG	LEU	P	74	104.926	77.637	14.975	1.00	44.13	PS16
ATOM	48592	CD1	LEU	P	74	104.367	77.498	13.552	1.00	44.13	PS16
ATOM	48593	CD2	LEU	P	74	105.823	78.838	15.056	1.00	44.13	PS16
ATOM	48594	C	LEU	P	74	102.634	78.866	17.872	1.00	54.76	PS16
ATOM	48595	O	LEU	P	74	102.034	79.945	17.905	1.00	54.76	PS16
ATOM	48596	N	ARG	P	75	102.160	77.765	18.445	1.00	68.59	PS16
ATOM	48597	CA	ARG	P	75	100.891	77.806	19.159	1.00	68.59	PS16
ATOM	48598	CB	ARG	P	75	100.645	76.494	19.900	1.00	92.83	PS16
ATOM	48599	CG	ARG	P	75	99.289	76.402	20.595	1.00	92.83	PS16
ATOM	48600	CD	ARG	P	75	99.177	75.104	21.380	1.00	92.83	PS16
ATOM	48601	NE	ARG	P	75	99.386	73.930	20.535	1.00	92.83	PS16
ATOM	48602	CZ	ARG	P	75	98.532	73.510	19.607	1.00	92.83	PS16
ATOM	48603	NH1	ARG	P	75	97.397	74.161	19.396	1.00	92.83	PS16
ATOM	48604	NH2	ARG	P	75	98.816	72.436	18.883	1.00	92.83	PS16
ATOM	48605	C	ARG	P	75	101.015	78.930	20.159	1.00	68.59	PS16
ATOM	48606	O	ARG	P	75	100.126	79.768	20.285	1.00	68.59	PS16
ATOM	48607	N	GLN	P	76	102.153	78.930	20.845	1.00	58.77	PS16
ATOM	48608	CA	GLN	P	76	102.497	79.919	21.862	1.00	58.77	PS16
ATOM	48609	CB	GLN	P	76	103.984	79.807	22.195	1.00	73.36	PS16
ATOM	48610	CG	GLN	P	76	104.273	79.626	23.664	1.00	73.36	PS16
ATOM	48611	CD	GLN	P	76	104.966	80.832	24.248	1.00	73.36	PS16
ATOM	48612	OE1	GLN	P	76	104.551	81.969	24.005	1.00	73.36	PS16
ATOM	48613	NE2	GLN	P	76	106.024	80.599	25.030	1.00	73.36	PS16
ATOM	48614	C	GLN	P	76	102.175	81.339	21.423	1.00	58.77	PS16
ATOM	48615	O	GLN	P	76	101.856	82.189	22.247	1.00	58.77	PS16
ATOM	48616	N	ALA	P	77	102.272	81.593	20.124	1.00	57.18	PS16
ATOM	48617	CA	ALA	P	77	101.966	82.908	19.576	1.00	57.18	PS16
ATOM	48618	CB	ALA	P	77	103.057	83.358	18.622	1.00	55.54	PS16
ATOM	48619	C	ALA	P	77	100.651	82.775	18.841	1.00	57.18	PS16
ATOM	48620	O	ALA	P	77	100.451	83.345	17.769	1.00	57.18	PS16
ATOM	48621	N	GLY	P	78	99.760	81.995	19.431	1.00	55.90	PS16
ATOM	48622	CA	GLY	P	78	98.462	81.779	18.834	1.00	55.90	PS16
ATOM	48623	C	GLY	P	78	98.486	81.567	17.333	1.00	55.90	PS16
ATOM	48624	O	GLY	P	78	97.696	82.169	16.609	1.00	55.90	PS16
ATOM	48625	N	VAL	P	79	99.394	80.735	16.844	1.00	48.02	PS16
ATOM	48626	CA	VAL	P	79	99.410	80.479	15.414	1.00	48.02	PS16
ATOM	48627	CB	VAL	P	79	100.682	79.747	14.969	1.00	55.39	PS16
ATOM	48628	CG1	VAL	P	79	100.626	79.470	13.468	1.00	55.39	PS16
ATOM	48629	CG2	VAL	P	79	101.886	80.587	15.288	1.00	55.39	PS16
ATOM	48630	C	VAL	P	79	98.225	79.574	15.120	1.00	48.02	PS16
ATOM	48631	O	VAL	P	79	97.710	79.543	14.004	1.00	48.02	PS16
ATOM	48632	N	PHE	P	80	97.786	78.850	16.145	1.00	78.56	PS16
ATOM	48633	CA	PHE	P	80	96.686	77.916	15.986	1.00	78.56	PS16
ATOM	48634	CB	PHE	P	80	97.065	76.570	16.592	1.00	59.52	PS16
ATOM	48635	CG	PHE	P	80	98.309	75.980	16.011	1.00	59.52	PS16
ATOM	48636	CD1	PHE	P	80	99.492	75.966	16.745	1.00	59.52	PS16
ATOM	48637	CD2	PHE	P	80	98.303	75.448	14.722	1.00	59.52	PS16
ATOM	48638	CE1	PHE	P	80	100.656	75.431	16.209	1.00	59.52	PS16
ATOM	48639	CE2	PHE	P	80	99.459	74.910	14.168	1.00	59.52	PS16
ATOM	48640	CZ	PHE	P	80	100.641	74.900	14.914	1.00	59.52	PS16
ATOM	48641	C	PHE	P	80	95.340	78.345	16.545	1.00	78.56	PS16



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ATOM	48642	O	PHE	P	80	94.307	77.948	16.011	1.00	78.56	PS16
ATOM	48643	N	ARG	P	81	95.345	79.128	17.622	1.00	76.38	PS16
ATOM	48644	CA	ARG	P	81	94.103	79.610	18.242	1.00	76.38	PS16
ATOM	48645	CB	ARG	P	81	94.410	80.773	19.191	1.00116.80		PS16
ATOM	48646	CG	ARG	P	81	93.187	81.485	19.735	1.00116.80		PS16
ATOM	48647	CD	ARG	P	81	93.564	82.492	20.810	1.00116.80		PS16
ATOM	48648	NE	ARG	P	81	93.947	81.843	22.062	1.00116.80		PS16
ATOM	48649	CZ	ARG	P	81	95.132	81.984	22.654	1.00116.80		PS16
ATOM	48650	NH1	ARG	P	81	96.071	82.755	22.113	1.00116.80		PS16
ATOM	48651	NH2	ARG	P	81	95.379	81.350	23.795	1.00116.80		PS16
ATOM	48652	C	ARG	P	81	93.101	80.059	17.179	1.00	76.38	PS16
ATOM	48653	O	ARG	P	81	93.344	81.018	16.455	1.00	76.38	PS16
ATOM	48654	N	GLN	P	82	91.971	79.367	17.089	1.00118.88		PS16
ATOM	48655	CA	GLN	P	82	90.971	79.699	16.085	1.00118.88		PS16
ATOM	48656	CB	GLN	P	82	90.504	78.414	15.404	1.00123.26		PS16
ATOM	48657	CG	GLN	P	82	90.152	77.300	16.377	1.00123.26		PS16
ATOM	48658	CD	GLN	P	82	89.965	75.960	15.683	1.00123.26		PS16
ATOM	48659	OE1	GLN	P	82	89.178	75.837	14.744	1.00123.26		PS16
ATOM	48660	NE2	GLN	P	82	90.688	74.947	16.144	1.00123.26		PS16
ATOM	48661	C	GLN	P	82	89.773	80.472	16.624	1.00118.88		PS16
ATOM	48662	O	GLN	P	82	88.866	80.820	15.859	1.00118.88		PS16
ATOM	48663	N	GLU	P	83	89.795	80.751	17.929	1.00125.90		PS16
ATOM	48664	CA	GLU	P	83	88.726	81.471	18.638	1.00125.90		PS16
ATOM	48665	CB	GLU	P	83	89.306	82.634	19.446	1.00194.79		PS16
ATOM	48666	CG	GLU	P	83	90.190	82.195	20.597	1.00194.79		PS16
ATOM	48667	CD	GLU	P	83	89.602	81.029	21.371	1.00194.79		PS16
ATOM	48668	OE1	GLU	P	83	88.428	81.124	21.789	1.00194.79		PS16
ATOM	48669	OE2	GLU	P	83	90.317	80.020	21.563	1.00194.79		PS16
ATOM	48670	C	GLU	P	83	87.582	81.986	17.780	1.00125.90		PS16
ATOM	48671	O	GLU	P	83	87.309	83.184	17.738	1.00125.90		PS16
ATOM	48672	N	ALA	P	84	86.909	81.061	17.110	1.00190.96		PS16
ATOM	48673	CA	ALA	P	84	85.790	81.398	16.253	1.00190.96		PS16
ATOM	48674	CB	ALA	P	84	85.778	80.484	15.029	1.00	81.98	PS16
ATOM	48675	C	ALA	P	84	84.513	81.221	17.058	1.00190.96		PS16
ATOM	48676	O	ALA	P	84	83.419	81.213	16.497	1.00190.96		PS16
ATOM	48677	N	ARG	P	85	84.664	81.090	18.377	1.00135.14		PS16
ATOM	48678	CA	ARG	P	85	83.524	80.901	19.271	1.00135.14		PS16
ATOM	48679	CB	ARG	P	85	83.016	82.259	19.772	1.00198.12		PS16
ATOM	48680	CG	ARG	P	85	83.381	83.440	18.880	1.00198.12		PS16
ATOM	48681	CD	ARG	P	85	82.965	84.763	19.510	1.00198.12		PS16
ATOM	48682	NE	ARG	P	85	83.540	85.915	18.817	1.00198.12		PS16
ATOM	48683	CZ	ARG	P	85	83.270	86.252	17.560	1.00198.12		PS16
ATOM	48684	NH1	ARG	P	85	82.425	85.526	16.841	1.00198.12		PS16
ATOM	48685	NH2	ARG	P	85	83.847	87.317	17.019	1.00198.12		PS16
ATOM	48686	C	ARG	P	85	82.414	80.140	18.545	1.00135.14		PS16
ATOM	48687	O	ARG	P	85	81.267	80.592	18.469	1.00135.14		PS16
ATOM	48688	N	GLU	P	86	82.783	78.975	18.018	1.00180.74		PS16
ATOM	48689	CA	GLU	P	86	81.878	78.118	17.259	1.00180.74		PS16
ATOM	48690	CB	GLU	P	86	82.699	77.169	16.380	1.00154.70		PS16
ATOM	48691	CG	GLU	P	86	81.936	76.564	15.211	1.00154.70		PS16
ATOM	48692	CD	GLU	P	86	81.683	77.564	14.091	1.00154.70		PS16
ATOM	48693	OE1	GLU	P	86	82.670	78.091	13.531	1.00154.70		PS16
ATOM	48694	OE2	GLU	P	86	80.499	77.818	13.770	1.00154.70		PS16
ATOM	48695	C	GLU	P	86	80.919	77.301	18.125	1.00180.74		PS16
ATOM	48696	O	GLU	P	86	79.704	77.347	17.928	1.00180.74		PS16
ATOM	48697	N	GLY	P	87	81.470	76.554	19.076	1.00197.81		PS16
ATOM	48698	CA	GLY	P	87	80.654	75.721	19.947	1.00197.81		PS16
ATOM	48699	C	GLY	P	87	79.580	76.430	20.757	1.00197.81		PS16
ATOM	48700	O	GLY	P	87	78.386	76.212	20.541	1.00197.81		PS16
ATOM	48701	N	ALA	P	88	80.004	77.266	21.703	1.00198.94		PS16
ATOM	48702	CA	ALA	P	88	79.077	78.008	22.554	1.00198.94		PS16
ATOM	48703	CB	ALA	P	88	79.804	78.504	23.816	1.00132.29		PS16
ATOM	48704	C	ALA	P	88	78.471	79.189	21.795	1.00198.94		PS16
ATOM	48705	O	ALA	P	88	78.601	80.332	22.285	1.00198.94		PS16
ATOM	48706	OXT	ALA	P	88	77.871	78.957	20.721	1.00132.29		PS16
TER	48706		ALA	P	88						PS16
ATOM	48707	CB	PRO	Q	2	112.951	87.255	-22.011	1.00	57.82	QS17
ATOM	48708	CG	PRO	Q	2	112.485	87.796	-20.686	1.00	57.82	QS17
ATOM	48709	C	PRO	Q	2	113.617	84.955	-22.655	1.00	43.52	QS17
ATOM	48710	O	PRO	Q	2	114.826	84.983	-22.415	1.00	43.52	QS17
ATOM	48711	N	PRO	Q	2	112.692	85.453	-20.412	1.00	43.52	QS17
ATOM	48712	CD	PRO	Q	2	112.825	86.698	-19.634	1.00	57.82	QS17
ATOM	48713	CA	PRO	Q	2	112.635	85.775	-21.855	1.00	43.52	QS17
ATOM	48714	N	LYS	Q	3	113.088	84.196	-23.597	1.00	52.23	QS17
ATOM	48715	CA	LYS	Q	3	113.954	83.422	-24.439	1.00	52.23	QS17
ATOM	48716	CB	LYS	Q	3	113.132	82.584	-25.411	1.00	61.80	QS17
ATOM	48717	CG	LYS	Q	3	112.383	81.450	-24.736	1.00	61.80	QS17



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ATOM	48718	CD	LYS	Q	3	111.756	80.515	-25.763	1.00	61.80	QS17
ATOM	48719	CE	LYS	Q	3	111.335	79.176	-25.146	1.00	61.80	QS17
ATOM	48720	NZ	LYS	Q	3	110.313	79.277	-24.060	1.00	61.80	QS17
ATOM	48721	C	LYS	Q	3	114.754	84.495	-25.165	1.00	52.23	QS17
ATOM	48722	O	LYS	Q	3	114.191	85.332	-25.873	1.00	52.23	QS17
ATOM	48723	N	LYS	Q	4	116.061	84.494	-24.944	1.00	53.92	QS17
ATOM	48724	CA	LYS	Q	4	116.957	85.464	-25.562	1.00	53.92	QS17
ATOM	48725	CB	LYS	Q	4	118.403	85.104	-25.205	1.00	70.87	QS17
ATOM	48726	CG	LYS	Q	4	119.463	86.061	-25.732	1.00	70.87	QS17
ATOM	48727	CD	LYS	Q	4	119.424	87.380	-24.996	1.00	70.87	QS17
ATOM	48728	CE	LYS	Q	4	120.635	88.234	-25.312	1.00	70.87	QS17
ATOM	48729	NZ	LYS	Q	4	120.560	89.562	-24.626	1.00	70.87	QS17
ATOM	48730	C	LYS	Q	4	116.816	85.555	-27.089	1.00	53.92	QS17
ATOM	48731	O	LYS	Q	4	116.808	84.542	-27.798	1.00	53.92	QS17
ATOM	48732	N	VAL	Q	5	116.710	86.781	-27.592	1.00	53.75	QS17
ATOM	48733	CA	VAL	Q	5	116.615	87.010	-29.031	1.00	53.75	QS17
ATOM	48734	CB	VAL	Q	5	115.373	87.844	-29.372	1.00	44.75	QS17
ATOM	48735	CG1	VAL	Q	5	115.291	88.082	-30.872	1.00	44.75	QS17
ATOM	48736	CG2	VAL	Q	5	114.137	87.132	-28.868	1.00	44.75	QS17
ATOM	48737	C	VAL	Q	5	117.870	87.761	-29.489	1.00	53.75	QS17
ATOM	48738	O	VAL	Q	5	118.344	88.669	-28.806	1.00	53.75	QS17
ATOM	48739	N	LEU	Q	6	118.415	87.374	-30.636	1.00	53.44	QS17
ATOM	48740	CA	LEU	Q	6	119.611	88.031	-31.153	1.00	53.44	QS17
ATOM	48741	CB	LEU	Q	6	120.827	87.129	-30.980	1.00	42.26	QS17
ATOM	48742	CG	LEU	Q	6	121.286	86.658	-29.607	1.00	42.26	QS17
ATOM	48743	CD1	LEU	Q	6	122.617	85.957	-29.794	1.00	42.26	QS17
ATOM	48744	CD2	LEU	Q	6	121.439	87.817	-28.654	1.00	42.26	QS17
ATOM	48745	C	LEU	Q	6	119.478	88.354	-32.633	1.00	53.44	QS17
ATOM	48746	O	LEU	Q	6	118.620	87.791	-33.324	1.00	53.44	QS17
ATOM	48747	N	THR	Q	7	120.325	89.258	-33.123	1.00	43.65	QS17
ATOM	48748	CA	THR	Q	7	120.293	89.597	-34.548	1.00	43.65	QS17
ATOM	48749	CB	THR	Q	7	119.793	91.018	-34.797	1.00	60.48	QS17
ATOM	48750	OG1	THR	Q	7	118.501	91.193	-34.204	1.00	60.48	QS17
ATOM	48751	CG2	THR	Q	7	119.680	91.256	-36.281	1.00	60.48	QS17
ATOM	48752	C	THR	Q	7	121.664	89.470	-35.204	1.00	43.65	QS17
ATOM	48753	O	THR	Q	7	122.681	89.824	-34.618	1.00	43.65	QS17
ATOM	48754	N	GLY	Q	8	121.695	88.972	-36.430	1.00	43.36	QS17
ATOM	48755	CA	GLY	Q	8	122.972	88.825	-37.097	1.00	43.36	QS17
ATOM	48756	C	GLY	Q	8	122.829	88.512	-38.565	1.00	43.36	QS17
ATOM	48757	O	GLY	Q	8	121.720	88.502	-39.105	1.00	43.36	QS17
ATOM	48758	N	VAL	Q	9	123.958	88.260	-39.214	1.00	52.27	QS17
ATOM	48759	CA	VAL	Q	9	123.961	87.952	-40.632	1.00	52.27	QS17
ATOM	48760	CB	VAL	Q	9	125.046	88.729	-41.383	1.00	34.88	QS17
ATOM	48761	CG1	VAL	Q	9	125.470	87.955	-42.610	1.00	34.88	QS17
ATOM	48762	CG2	VAL	Q	9	124.520	90.075	-41.821	1.00	34.88	QS17
ATOM	48763	C	VAL	Q	9	124.245	86.499	-40.867	1.00	52.27	QS17
ATOM	48764	O	VAL	Q	9	125.057	85.897	-40.164	1.00	52.27	QS17
ATOM	48765	N	VAL	Q	10	123.585	85.942	-41.873	1.00	56.08	QS17
ATOM	48766	CA	VAL	Q	10	123.808	84.555	-42.232	1.00	56.08	QS17
ATOM	48767	CB	VAL	Q	10	122.650	83.995	-43.048	1.00	52.64	QS17
ATOM	48768	CG1	VAL	Q	10	123.050	82.666	-43.651	1.00	52.64	QS17
ATOM	48769	CG2	VAL	Q	10	121.440	83.822	-42.159	1.00	52.64	QS17
ATOM	48770	C	VAL	Q	10	125.064	84.510	-43.089	1.00	56.08	QS17
ATOM	48771	O	VAL	Q	10	125.073	85.020	-44.211	1.00	56.08	QS17
ATOM	48772	N	VAL	Q	11	126.121	83.904	-42.560	1.00	47.21	QS17
ATOM	48773	CA	VAL	Q	11	127.374	83.821	-43.288	1.00	47.21	QS17
ATOM	48774	CB	VAL	Q	11	128.563	84.230	-42.387	1.00	34.42	QS17
ATOM	48775	CG1	VAL	Q	11	128.310	85.593	-41.799	1.00	34.42	QS17
ATOM	48776	CG2	VAL	Q	11	128.760	83.229	-41.280	1.00	34.42	QS17
ATOM	48777	C	VAL	Q	11	127.624	82.427	-43.854	1.00	47.21	QS17
ATOM	48778	O	VAL	Q	11	128.648	82.201	-44.496	1.00	47.21	QS17
ATOM	48779	N	SER	Q	12	126.696	81.497	-43.628	1.00	67.29	QS17
ATOM	48780	CA	SER	Q	12	126.858	80.132	-44.138	1.00	67.29	QS17
ATOM	48781	CB	SER	Q	12	127.726	79.300	-43.197	1.00	57.45	QS17
ATOM	48782	OG	SER	Q	12	127.631	77.920	-43.513	1.00	57.45	QS17
ATOM	48783	C	SER	Q	12	125.558	79.381	-44.355	1.00	67.29	QS17
ATOM	48784	O	SER	Q	12	124.781	79.187	-43.423	1.00	67.29	QS17
ATOM	48785	N	ASP	Q	13	125.350	78.931	-45.589	1.00	81.70	QS17
ATOM	48786	CA	ASP	Q	13	124.156	78.189	-45.961	1.00	81.70	QS17
ATOM	48787	CB	ASP	Q	13	123.428	78.913	-47.092	1.00	191.55	QS17
ATOM	48788	CG	ASP	Q	13	122.087	78.293	-47.413	1.00	191.55	QS17
ATOM	48789	OD1	ASP	Q	13	121.397	78.821	-48.309	1.00	191.55	QS17
ATOM	48790	OD2	ASP	Q	13	121.720	77.284	-46.771	1.00	191.55	QS17
ATOM	48791	C	ASP	Q	13	124.587	76.807	-46.426	1.00	81.70	QS17
ATOM	48792	O	ASP	Q	13	123.817	76.071	-47.042	1.00	81.70	QS17
ATOM	48793	N	LYS	Q	14	125.825	76.449	-46.118	1.00	76.69	QS17
ATOM	48794	CA	LYS	Q	14	126.350	75.161	-46.537	1.00	76.69	QS17



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ATOM	48795	CB	LYS	Q	14	127.871	75.134	-46.383	1.00	93.56	QS17
ATOM	48796	CG	LYS	Q	14	128.612	75.993	-47.387	1.00	93.56	QS17
ATOM	48797	CD	LYS	Q	14	130.111	75.769	-47.270	1.00	93.56	QS17
ATOM	48798	CE	LYS	Q	14	130.904	76.617	-48.261	1.00	93.56	QS17
ATOM	48799	NZ	LYS	Q	14	132.376	76.350	-48.179	1.00	93.56	QS17
ATOM	48800	C	LYS	Q	14	125.753	73.946	-45.834	1.00	76.69	QS17
ATOM	48801	O	LYS	Q	14	126.091	72.816	-46.177	1.00	76.69	QS17
ATOM	48802	N	MET	Q	15	124.867	74.157	-44.867	1.00	86.53	QS17
ATOM	48803	CA	MET	Q	15	124.278	73.025	-44.154	1.00	86.53	QS17
ATOM	48804	CB	MET	Q	15	124.419	73.207	-42.636	1.00	55.01	QS17
ATOM	48805	CG	MET	Q	15	125.852	73.223	-42.138	1.00	55.01	QS17
ATOM	48806	SD	MET	Q	15	126.002	73.246	-40.334	1.00	55.01	QS17
ATOM	48807	CE	MET	Q	15	125.565	74.917	-39.980	1.00	55.01	QS17
ATOM	48808	C	MET	Q	15	122.813	72.785	-44.487	1.00	86.53	QS17
ATOM	48809	O	MET	Q	15	122.188	73.553	-45.228	1.00	86.53	QS17
ATOM	48810	N	GLN	Q	16	122.285	71.699	-43.926	1.00	76.22	QS17
ATOM	48811	CA	GLN	Q	16	120.892	71.306	-44.102	1.00	76.22	QS17
ATOM	48812	CB	GLN	Q	16	120.784	69.785	-44.198	1.00	92.25	QS17
ATOM	48813	CG	GLN	Q	16	121.315	69.188	-45.490	1.00	92.25	QS17
ATOM	48814	CD	GLN	Q	16	121.370	67.660	-45.454	1.00	92.25	QS17
ATOM	48815	OE1	GLN	Q	16	121.570	67.005	-46.482	1.00	92.25	QS17
ATOM	48816	NE2	GLN	Q	16	121.203	67.091	-44.267	1.00	92.25	QS17
ATOM	48817	C	GLN	Q	16	120.081	71.791	-42.902	1.00	76.22	QS17
ATOM	48818	O	GLN	Q	16	120.428	71.507	-41.757	1.00	76.22	QS17
ATOM	48819	N	LYS	Q	17	119.006	72.524	-43.169	1.00	59.51	QS17
ATOM	48820	CA	LYS	Q	17	118.133	73.047	-42.118	1.00	59.51	QS17
ATOM	48821	CB	LYS	Q	17	117.341	71.904	-41.479	1.00	68.33	QS17
ATOM	48822	CG	LYS	Q	17	116.526	71.084	-42.456	1.00	68.33	QS17
ATOM	48823	CD	LYS	Q	17	115.341	70.448	-41.753	1.00	68.33	QS17
ATOM	48824	CE	LYS	Q	17	114.679	69.385	-42.601	1.00	68.33	QS17
ATOM	48825	NZ	LYS	Q	17	115.614	68.246	-42.829	1.00	68.33	QS17
ATOM	48826	C	LYS	Q	17	118.848	73.851	-41.019	1.00	59.51	QS17
ATOM	48827	O	LYS	Q	17	118.303	74.066	-39.920	1.00	59.51	QS17
ATOM	48828	N	THR	Q	18	120.061	74.306	-41.318	1.00	67.53	QS17
ATOM	48829	CA	THR	Q	18	120.833	75.086	-40.357	1.00	67.53	QS17
ATOM	48830	CB	THR	Q	18	121.881	74.193	-39.619	1.00	76.35	QS17
ATOM	48831	OG1	THR	Q	18	121.323	72.898	-39.348	1.00	76.35	QS17
ATOM	48832	CG2	THR	Q	18	122.292	74.833	-38.299	1.00	76.35	QS17
ATOM	48833	C	THR	Q	18	121.579	76.206	-41.092	1.00	67.53	QS17
ATOM	48834	O	THR	Q	18	122.007	76.031	-42.234	1.00	67.53	QS17
ATOM	48835	N	VAL	Q	19	121.701	77.364	-40.454	1.00	63.26	QS17
ATOM	48836	CA	VAL	Q	19	122.440	78.475	-41.047	1.00	63.26	QS17
ATOM	48837	CB	VAL	Q	19	121.538	79.665	-41.493	1.00	38.90	QS17
ATOM	48838	CG1	VAL	Q	19	120.623	79.253	-42.631	1.00	38.90	QS17
ATOM	48839	CG2	VAL	Q	19	120.744	80.172	-40.323	1.00	38.90	QS17
ATOM	48840	C	VAL	Q	19	123.360	78.995	-39.965	1.00	63.26	QS17
ATOM	48841	O	VAL	Q	19	123.058	78.863	-38.773	1.00	63.26	QS17
ATOM	48842	N	THR	Q	20	124.489	79.566	-40.370	1.00	54.33	QS17
ATOM	48843	CA	THR	Q	20	125.414	80.125	-39.401	1.00	54.33	QS17
ATOM	48844	CB	THR	Q	20	126.869	79.859	-39.769	1.00	58.14	QS17
ATOM	48845	OG1	THR	Q	20	127.071	78.455	-39.981	1.00	58.14	QS17
ATOM	48846	CG2	THR	Q	20	127.763	80.325	-38.643	1.00	58.14	QS17
ATOM	48847	C	THR	Q	20	125.197	81.627	-39.351	1.00	54.33	QS17
ATOM	48848	O	THR	Q	20	125.503	82.343	-40.301	1.00	54.33	QS17
ATOM	48849	N	VAL	Q	21	124.645	82.090	-38.240	1.00	49.73	QS17
ATOM	48850	CA	VAL	Q	21	124.382	83.503	-38.050	1.00	49.73	QS17
ATOM	48851	CB	VAL	Q	21	123.038	83.717	-37.350	1.00	49.90	QS17
ATOM	48852	CG1	VAL	Q	21	122.735	85.218	-37.241	1.00	49.90	QS17
ATOM	48853	CG2	VAL	Q	21	121.950	82.990	-38.127	1.00	49.90	QS17
ATOM	48854	C	VAL	Q	21	125.492	84.176	-37.244	1.00	49.73	QS17
ATOM	48855	O	VAL	Q	21	125.884	83.727	-36.154	1.00	49.73	QS17
ATOM	48856	N	LEU	Q	22	125.992	85.270	-37.797	1.00	64.47	QS17
ATOM	48857	CA	LEU	Q	22	127.070	85.993	-37.175	1.00	64.47	QS17
ATOM	48858	CB	LEU	Q	22	128.025	86.466	-38.261	1.00	50.40	QS17
ATOM	48859	CG	LEU	Q	22	129.303	87.106	-37.731	1.00	50.40	QS17
ATOM	48860	CD1	LEU	Q	22	129.782	86.356	-36.494	1.00	50.40	QS17
ATOM	48861	CD2	LEU	Q	22	130.357	87.095	-38.827	1.00	50.40	QS17
ATOM	48862	C	LEU	Q	22	126.584	87.165	-36.341	1.00	64.47	QS17
ATOM	48863	O	LEU	Q	22	126.513	88.294	-36.827	1.00	64.47	QS17
ATOM	48864	N	VAL	Q	23	126.260	86.893	-35.081	1.00	56.58	QS17
ATOM	48865	CA	VAL	Q	23	125.766	87.921	-34.166	1.00	56.58	QS17
ATOM	48866	CB	VAL	Q	23	125.074	87.285	-32.942	1.00	67.47	QS17
ATOM	48867	CG1	VAL	Q	23	124.553	88.367	-32.017	1.00	67.47	QS17
ATOM	48868	CG2	VAL	Q	23	123.947	86.384	-33.390	1.00	67.47	QS17
ATOM	48869	C	VAL	Q	23	126.901	88.806	-33.663	1.00	56.58	QS17
ATOM	48870	O	VAL	Q	23	127.930	88.300	-33.219	1.00	56.58	QS17
ATOM	48871	N	GLU	Q	24	126.708	90.121	-33.710	1.00	56.21	QS17



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ATOM	48872	CA	GLU	Q	24	127.742	91.055	-33.258	1.00	56.21	QS17
ATOM	48873	CB	GLU	Q	24	128.039	92.048	-34.377	1.00	109.55	QS17
ATOM	48874	CG	GLU	Q	24	129.272	92.900	-34.178	1.00	109.55	QS17
ATOM	48875	CD	GLU	Q	24	129.585	93.716	-35.420	1.00	109.55	QS17
ATOM	48876	OE1	GLU	Q	24	129.950	93.116	-36.457	1.00	109.55	QS17
ATOM	48877	OE2	GLU	Q	24	129.455	94.958	-35.366	1.00	109.55	QS17
ATOM	48878	C	GLU	Q	24	127.317	91.784	-31.977	1.00	56.21	QS17
ATOM	48879	O	GLU	Q	24	126.127	92.009	-31.747	1.00	56.21	QS17
ATOM	48880	N	ARG	Q	25	128.291	92.174	-31.158	1.00	46.75	QS17
ATOM	48881	CA	ARG	Q	25	127.989	92.819	-29.879	1.00	46.75	QS17
ATOM	48882	CB	ARG	Q	25	127.914	91.734	-28.806	1.00	49.36	QS17
ATOM	48883	CG	ARG	Q	25	128.136	92.227	-27.393	1.00	49.36	QS17
ATOM	48884	CD	ARG	Q	25	128.160	91.077	-26.379	1.00	49.36	QS17
ATOM	48885	NE	ARG	Q	25	129.249	90.138	-26.623	1.00	49.36	QS17
ATOM	48886	CZ	ARG	Q	25	130.180	89.836	-25.728	1.00	49.36	QS17
ATOM	48887	NH1	ARG	Q	25	130.163	90.394	-24.519	1.00	49.36	QS17
ATOM	48888	NH2	ARG	Q	25	131.138	88.985	-26.056	1.00	49.36	QS17
ATOM	48889	C	ARG	Q	25	128.980	93.893	-29.431	1.00	46.75	QS17
ATOM	48890	O	ARG	Q	25	130.177	93.797	-29.697	1.00	46.75	QS17
ATOM	48891	N	GLN	Q	26	128.485	94.912	-28.735	1.00	48.23	QS17
ATOM	48892	CA	GLN	Q	26	129.367	95.974	-28.253	1.00	48.23	QS17
ATOM	48893	CB	GLN	Q	26	128.978	97.318	-28.863	1.00	73.70	QS17
ATOM	48894	CG	GLN	Q	26	129.040	97.282	-30.371	1.00	73.70	QS17
ATOM	48895	CD	GLN	Q	26	128.981	98.650	-31.004	1.00	73.70	QS17
ATOM	48896	OE1	GLN	Q	26	127.970	99.353	-30.911	1.00	73.70	QS17
ATOM	48897	NE2	GLN	Q	26	130.069	99.041	-31.658	1.00	73.70	QS17
ATOM	48898	C	GLN	Q	26	129.311	96.044	-26.742	1.00	48.23	QS17
ATOM	48899	O	GLN	Q	26	128.436	95.447	-26.131	1.00	48.23	QS17
ATOM	48900	N	PHE	Q	27	130.254	96.758	-26.141	1.00	35.71	QS17
ATOM	48901	CA	PHE	Q	27	130.315	96.894	-24.694	1.00	35.71	QS17
ATOM	48902	CB	PHE	Q	27	130.210	95.541	-24.021	1.00	40.93	QS17
ATOM	48903	CG	PHE	Q	27	131.391	94.647	-24.252	1.00	40.93	QS17
ATOM	48904	CD1	PHE	Q	27	132.590	94.861	-23.584	1.00	40.93	QS17
ATOM	48905	CD2	PHE	Q	27	131.285	93.537	-25.094	1.00	40.93	QS17
ATOM	48906	CE1	PHE	Q	27	133.669	93.970	-23.746	1.00	40.93	QS17
ATOM	48907	CE2	PHE	Q	27	132.359	92.640	-25.263	1.00	40.93	QS17
ATOM	48908	CZ	PHE	Q	27	133.547	92.857	-24.588	1.00	40.93	QS17
ATOM	48909	C	PHE	Q	27	131.608	97.543	-24.264	1.00	35.71	QS17
ATOM	48910	O	PHE	Q	27	132.661	97.332	-24.862	1.00	35.71	QS17
ATOM	48911	N	PRO	Q	28	131.547	98.339	-23.202	1.00	39.17	QS17
ATOM	48912	CD	PRO	Q	28	130.433	98.489	-22.263	1.00	45.01	QS17
ATOM	48913	CA	PRO	Q	28	132.726	99.021	-22.692	1.00	39.17	QS17
ATOM	48914	CB	PRO	Q	28	132.166	99.895	-21.599	1.00	45.01	QS17
ATOM	48915	CG	PRO	Q	28	131.143	99.018	-21.036	1.00	45.01	QS17
ATOM	48916	C	PRO	Q	28	133.642	97.989	-22.127	1.00	39.17	QS17
ATOM	48917	O	PRO	Q	28	133.212	97.045	-21.478	1.00	39.17	QS17
ATOM	48918	N	HIS	Q	29	134.912	98.171	-22.404	1.00	41.01	QS17
ATOM	48919	CA	HIS	Q	29	135.920	97.279	-21.906	1.00	41.01	QS17
ATOM	48920	CB	HIS	Q	29	137.261	97.624	-22.542	1.00	52.37	QS17
ATOM	48921	CG	HIS	Q	29	138.404	96.889	-21.941	1.00	52.37	QS17
ATOM	48922	CD2	HIS	Q	29	139.196	95.914	-22.442	1.00	52.37	QS17
ATOM	48923	ND1	HIS	Q	29	138.784	97.067	-20.630	1.00	52.37	QS17
ATOM	48924	CE1	HIS	Q	29	139.760	96.226	-20.346	1.00	52.37	QS17
ATOM	48925	NE2	HIS	Q	29	140.028	95.515	-21.428	1.00	52.37	QS17
ATOM	48926	C	HIS	Q	29	135.955	97.541	-20.407	1.00	41.01	QS17
ATOM	48927	O	HIS	Q	29	136.041	98.682	-19.972	1.00	41.01	QS17
ATOM	48928	N	PRO	Q	30	135.899	96.479	-19.605	1.00	38.99	QS17
ATOM	48929	CD	PRO	Q	30	136.075	95.107	-20.097	1.00	63.28	QS17
ATOM	48930	CA	PRO	Q	30	135.911	96.501	-18.141	1.00	38.99	QS17
ATOM	48931	CB	PRO	Q	30	136.060	95.029	-17.780	1.00	63.28	QS17
ATOM	48932	CG	PRO	Q	30	136.803	94.471	-18.954	1.00	63.28	QS17
ATOM	48933	C	PRO	Q	30	136.927	97.376	-17.407	1.00	38.99	QS17
ATOM	48934	O	PRO	Q	30	136.652	97.802	-16.284	1.00	38.99	QS17
ATOM	48935	N	LEU	Q	31	138.087	97.652	-18.003	1.00	35.36	QS17
ATOM	48936	CA	LEU	Q	31	139.076	98.483	-17.304	1.00	35.36	QS17
ATOM	48937	CB	LEU	Q	31	140.322	97.669	-16.947	1.00	35.51	QS17
ATOM	48938	CG	LEU	Q	31	141.497	98.469	-16.366	1.00	35.51	QS17
ATOM	48939	CD1	LEU	Q	31	141.060	99.222	-15.138	1.00	35.51	QS17
ATOM	48940	CD2	LEU	Q	31	142.637	97.538	-16.020	1.00	35.51	QS17
ATOM	48941	C	LEU	Q	31	139.518	99.728	-18.048	1.00	35.36	QS17
ATOM	48942	O	LEU	Q	31	139.958	100.697	-17.426	1.00	35.36	QS17
ATOM	48943	N	TYR	Q	32	139.406	99.697	-19.374	1.00	48.50	QS17
ATOM	48944	CA	TYR	Q	32	139.806	100.820	-20.214	1.00	48.50	QS17
ATOM	48945	CB	TYR	Q	32	140.695	100.301	-21.330	1.00	40.22	QS17
ATOM	48946	CG	TYR	Q	32	141.908	99.613	-20.768	1.00	40.22	QS17
ATOM	48947	CD1	TYR	Q	32	142.384	98.423	-21.311	1.00	40.22	QS17
ATOM	48948	CE1	TYR	Q	32	143.477	97.780	-20.758	1.00	40.22	QS17



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ATOM	48949	CD2	TYR	Q	32	142.567	100.144	-19.660	1.00	40.22	QS17
ATOM	48950	CE2	TYR	Q	32	143.665	99.512	-19.101	1.00	40.22	QS17
ATOM	48951	CZ	TYR	Q	32	144.110	98.330	-19.646	1.00	40.22	QS17
ATOM	48952	OH	TYR	Q	32	145.153	97.676	-19.030	1.00	40.22	QS17
ATOM	48953	C	TYR	Q	32	138.591	101.539	-20.761	1.00	48.50	QS17
ATOM	48954	O	TYR	Q	32	138.689	102.595	-21.377	1.00	48.50	QS17
ATOM	48955	N	GLY	Q	33	137.438	100.936	-20.536	1.00	46.39	QS17
ATOM	48956	CA	GLY	Q	33	136.194	101.539	-20.954	1.00	46.39	QS17
ATOM	48957	C	GLY	Q	33	135.883	101.724	-22.421	1.00	46.39	QS17
ATOM	48958	O	GLY	Q	33	134.708	101.761	-22.787	1.00	46.39	QS17
ATOM	48959	N	LYS	Q	34	136.888	101.836	-23.277	1.00	35.15	QS17
ATOM	48960	CA	LYS	Q	34	136.559	102.050	-24.680	1.00	35.15	QS17
ATOM	48961	CB	LYS	Q	34	137.834	102.019	-25.544	1.00	46.15	QS17
ATOM	48962	CG	LYS	Q	34	138.190	100.697	-26.159	1.00	46.15	QS17
ATOM	48963	CD	LYS	Q	34	138.077	100.763	-27.696	1.00	46.15	QS17
ATOM	48964	CE	LYS	Q	34	139.077	101.745	-28.320	1.00	46.15	QS17
ATOM	48965	NZ	LYS	Q	34	139.039	101.704	-29.817	1.00	46.15	QS17
ATOM	48966	C	LYS	Q	34	135.520	101.001	-25.103	1.00	35.15	QS17
ATOM	48967	O	LYS	Q	34	135.548	99.872	-24.632	1.00	35.15	QS17
ATOM	48968	N	VAL	Q	35	134.561	101.398	-25.933	1.00	40.94	QS17
ATOM	48969	CA	VAL	Q	35	133.532	100.466	-26.383	1.00	40.94	QS17
ATOM	48970	CB	VAL	Q	35	132.382	101.144	-27.141	1.00	48.32	QS17
ATOM	48971	CG1	VAL	Q	35	131.231	100.155	-27.280	1.00	48.32	QS17
ATOM	48972	CG2	VAL	Q	35	131.947	102.408	-26.459	1.00	48.32	QS17
ATOM	48973	C	VAL	Q	35	134.158	99.535	-27.391	1.00	40.94	QS17
ATOM	48974	O	VAL	Q	35	134.478	99.941	-28.502	1.00	40.94	QS17
ATOM	48975	N	ILE	Q	36	134.317	98.278	-27.036	1.00	39.91	QS17
ATOM	48976	CA	ILE	Q	36	134.924	97.372	-27.977	1.00	39.91	QS17
ATOM	48977	CB	ILE	Q	36	135.875	96.439	-27.265	1.00	54.27	QS17
ATOM	48978	CG2	ILE	Q	36	136.706	97.226	-26.253	1.00	54.27	QS17
ATOM	48979	CG1	ILE	Q	36	135.072	95.367	-26.544	1.00	54.27	QS17
ATOM	48980	CD1	ILE	Q	36	135.906	94.209	-26.099	1.00	54.27	QS17
ATOM	48981	C	ILE	Q	36	133.840	96.564	-28.667	1.00	39.91	QS17
ATOM	48982	O	ILE	Q	36	132.716	96.486	-28.192	1.00	39.91	QS17
ATOM	48983	N	LYS	Q	37	134.177	95.960	-29.794	1.00	58.13	QS17
ATOM	48984	CA	LYS	Q	37	133.192	95.173	-30.491	1.00	58.13	QS17
ATOM	48985	CB	LYS	Q	37	133.057	95.655	-31.914	1.00	68.14	QS17
ATOM	48986	CG	LYS	Q	37	131.797	95.181	-32.537	1.00	68.14	QS17
ATOM	48987	CD	LYS	Q	37	131.875	95.309	-34.028	1.00	68.14	QS17
ATOM	48988	CE	LYS	Q	37	132.070	96.741	-34.479	1.00	68.14	QS17
ATOM	48989	NZ	LYS	Q	37	131.921	96.820	-35.963	1.00	68.14	QS17
ATOM	48990	C	LYS	Q	37	133.607	93.714	-30.467	1.00	58.13	QS17
ATOM	48991	O	LYS	Q	37	134.796	93.395	-30.502	1.00	58.13	QS17
ATOM	48992	N	ARG	Q	38	132.618	92.831	-30.408	1.00	68.50	QS17
ATOM	48993	CA	ARG	Q	38	132.854	91.394	-30.338	1.00	68.50	QS17
ATOM	48994	CB	ARG	Q	38	132.651	90.935	-28.897	1.00	75.78	QS17
ATOM	48995	CG	ARG	Q	38	133.569	89.829	-28.450	1.00	75.78	QS17
ATOM	48996	CD	ARG	Q	38	134.865	90.374	-27.852	1.00	75.78	QS17
ATOM	48997	NE	ARG	Q	38	135.620	91.227	-28.764	1.00	75.78	QS17
ATOM	48998	CZ	ARG	Q	38	136.854	91.647	-28.513	1.00	75.78	QS17
ATOM	48999	NH1	ARG	Q	38	137.456	91.284	-27.384	1.00	75.78	QS17
ATOM	49000	NH2	ARG	Q	38	137.477	92.435	-29.378	1.00	75.78	QS17
ATOM	49001	C	ARG	Q	38	131.875	90.651	-31.257	1.00	68.50	QS17
ATOM	49002	O	ARG	Q	38	130.827	91.190	-31.641	1.00	68.50	QS17
ATOM	49003	N	SER	Q	39	132.192	89.411	-31.606	1.00	58.62	QS17
ATOM	49004	CA	SER	Q	39	131.302	88.671	-32.483	1.00	58.62	QS17
ATOM	49005	CB	SER	Q	39	131.767	88.828	-33.930	1.00	59.64	QS17
ATOM	49006	OG	SER	Q	39	133.021	88.211	-34.126	1.00	59.64	QS17
ATOM	49007	C	SER	Q	39	131.181	87.188	-32.124	1.00	58.62	QS17
ATOM	49008	O	SER	Q	39	131.988	86.662	-31.357	1.00	58.62	QS17
ATOM	49009	N	LYS	Q	40	130.169	86.524	-32.690	1.00	61.34	QS17
ATOM	49010	CA	LYS	Q	40	129.916	85.108	-32.432	1.00	61.34	QS17
ATOM	49011	CB	LYS	Q	40	129.246	84.968	-31.080	1.00	36.79	QS17
ATOM	49012	CG	LYS	Q	40	129.007	83.556	-30.616	1.00	36.79	QS17
ATOM	49013	CD	LYS	Q	40	128.587	83.620	-29.146	1.00	36.79	QS17
ATOM	49014	CE	LYS	Q	40	128.350	82.255	-28.545	1.00	36.79	QS17
ATOM	49015	NZ	LYS	Q	40	127.726	82.387	-27.204	1.00	36.79	QS17
ATOM	49016	C	LYS	Q	40	129.033	84.485	-33.507	1.00	61.34	QS17
ATOM	49017	O	LYS	Q	40	128.078	85.108	-33.975	1.00	61.34	QS17
ATOM	49018	N	LYS	Q	41	129.353	83.257	-33.901	1.00	39.80	QS17
ATOM	49019	CA	LYS	Q	41	128.571	82.582	-34.926	1.00	39.80	QS17
ATOM	49020	CB	LYS	Q	41	129.464	81.812	-35.899	1.00	49.35	QS17
ATOM	49021	CG	LYS	Q	41	130.386	82.659	-36.775	1.00	49.35	QS17
ATOM	49022	CD	LYS	Q	41	131.247	81.799	-37.717	1.00	49.35	QS17
ATOM	49023	CE	LYS	Q	41	132.025	80.761	-36.926	1.00	49.35	QS17
ATOM	49024	NZ	LYS	Q	41	133.025	80.011	-37.723	1.00	49.35	QS17
ATOM	49025	C	LYS	Q	41	127.690	81.581	-34.239	1.00	39.80	QS17



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ATOM	49026	O	LYS	Q	41	128.203	80.666	-33.603	1.00	39.80	QS17
ATOM	49027	N	TYR	Q	42	126.376	81.748	-34.357	1.00	45.63	QS17
ATOM	49028	CA	TYR	Q	42	125.424	80.804	-33.767	1.00	45.63	QS17
ATOM	49029	CB	TYR	Q	42	124.274	81.551	-33.113	1.00	44.68	QS17
ATOM	49030	CG	TYR	Q	42	124.623	82.314	-31.877	1.00	44.68	QS17
ATOM	49031	CD1	TYR	Q	42	125.303	83.508	-31.944	1.00	44.68	QS17
ATOM	49032	CE1	TYR	Q	42	125.571	84.244	-30.779	1.00	44.68	QS17
ATOM	49033	CD2	TYR	Q	42	124.220	81.855	-30.634	1.00	44.68	QS17
ATOM	49034	CE2	TYR	Q	42	124.478	82.568	-29.464	1.00	44.68	QS17
ATOM	49035	CZ	TYR	Q	42	125.154	83.764	-29.530	1.00	44.68	QS17
ATOM	49036	OH	TYR	Q	42	125.431	84.463	-28.355	1.00	44.68	QS17
ATOM	49037	C	TYR	Q	42	124.835	79.909	-34.868	1.00	45.63	QS17
ATOM	49038	O	TYR	Q	42	124.524	80.388	-35.953	1.00	45.63	QS17
ATOM	49039	N	LEU	Q	43	124.675	78.617	-34.610	1.00	53.58	QS17
ATOM	49040	CA	LEU	Q	43	124.083	77.748	-35.632	1.00	53.58	QS17
ATOM	49041	CB	LEU	Q	43	124.650	76.331	-35.544	1.00	41.72	QS17
ATOM	49042	CG	LEU	Q	43	126.067	76.164	-36.099	1.00	41.72	QS17
ATOM	49043	CD1	LEU	Q	43	126.454	74.699	-36.154	1.00	41.72	QS17
ATOM	49044	CD2	LEU	Q	43	126.114	76.774	-37.496	1.00	41.72	QS17
ATOM	49045	C	LEU	Q	43	122.573	77.716	-35.453	1.00	53.58	QS17
ATOM	49046	O	LEU	Q	43	122.064	77.137	-34.486	1.00	53.58	QS17
ATOM	49047	N	ALA	Q	44	121.862	78.340	-36.388	1.00	56.98	QS17
ATOM	49048	CA	ALA	Q	44	120.404	78.417	-36.306	1.00	56.98	QS17
ATOM	49049	CB	ALA	Q	44	119.937	79.836	-36.526	1.00	68.36	QS17
ATOM	49050	C	ALA	Q	44	119.649	77.499	-37.239	1.00	56.98	QS17
ATOM	49051	O	ALA	Q	44	119.935	77.409	-38.446	1.00	56.98	QS17
ATOM	49052	N	HIS	Q	45	118.646	76.855	-36.653	1.00	43.36	QS17
ATOM	49053	CA	HIS	Q	45	117.809	75.907	-37.348	1.00	43.36	QS17
ATOM	49054	CB	HIS	Q	45	117.019	75.133	-36.321	1.00	59.32	QS17
ATOM	49055	CG	HIS	Q	45	116.158	74.068	-36.906	1.00	59.32	QS17
ATOM	49056	CD2	HIS	Q	45	114.874	73.722	-36.653	1.00	59.32	QS17
ATOM	49057	ND1	HIS	Q	45	116.621	73.181	-37.851	1.00	59.32	QS17
ATOM	49058	CE1	HIS	Q	45	115.657	72.332	-38.155	1.00	59.32	QS17
ATOM	49059	NE2	HIS	Q	45	114.586	72.638	-37.442	1.00	59.32	QS17
ATOM	49060	C	HIS	Q	45	116.865	76.564	-38.333	1.00	43.36	QS17
ATOM	49061	O	HIS	Q	45	116.127	77.484	-37.990	1.00	43.36	QS17
ATOM	49062	N	ASP	Q	46	116.891	76.083	-39.563	1.00	64.58	QS17
ATOM	49063	CA	ASP	Q	46	116.028	76.618	-40.599	1.00	64.58	QS17
ATOM	49064	CB	ASP	Q	46	116.850	77.428	-41.606	1.00	70.00	QS17
ATOM	49065	CG	ASP	Q	46	116.008	77.972	-42.742	1.00	70.00	QS17
ATOM	49066	OD1	ASP	Q	46	116.590	78.539	-43.698	1.00	70.00	QS17
ATOM	49067	OD2	ASP	Q	46	114.767	77.829	-42.670	1.00	70.00	QS17
ATOM	49068	C	ASP	Q	46	115.371	75.433	-41.286	1.00	64.58	QS17
ATOM	49069	O	ASP	Q	46	115.803	74.999	-42.347	1.00	64.58	QS17
ATOM	49070	N	PRO	Q	47	114.310	74.892	-40.683	1.00	85.06	QS17
ATOM	49071	CD	PRO	Q	47	113.568	75.417	-39.527	1.00	90.45	QS17
ATOM	49072	CA	PRO	Q	47	113.621	73.744	-41.274	1.00	85.06	QS17
ATOM	49073	CB	PRO	Q	47	112.354	73.627	-40.432	1.00	90.45	QS17
ATOM	49074	CG	PRO	Q	47	112.749	74.228	-39.119	1.00	90.45	QS17
ATOM	49075	C	PRO	Q	47	113.294	73.975	-42.745	1.00	85.06	QS17
ATOM	49076	O	PRO	Q	47	113.612	73.154	-43.605	1.00	85.06	QS17
ATOM	49077	N	GLU	Q	48	112.667	75.111	-43.024	1.00	72.73	QS17
ATOM	49078	CA	GLU	Q	48	112.262	75.445	-44.376	1.00	72.73	QS17
ATOM	49079	CB	GLU	Q	48	111.300	76.632	-44.343	1.00	183.09	QS17
ATOM	49080	CG	GLU	Q	48	110.105	76.439	-43.431	1.00	183.09	QS17
ATOM	49081	CD	GLU	Q	48	109.221	77.670	-43.370	1.00	183.09	QS17
ATOM	49082	OE1	GLU	Q	48	109.725	78.746	-42.977	1.00	183.09	QS17
ATOM	49083	OE2	GLU	Q	48	108.023	77.562	-43.716	1.00	183.09	QS17
ATOM	49084	C	GLU	Q	48	113.404	75.766	-45.324	1.00	72.73	QS17
ATOM	49085	O	GLU	Q	48	113.154	76.099	-46.477	1.00	72.73	QS17
ATOM	49086	N	GLU	Q	49	114.650	75.664	-44.866	1.00	72.96	QS17
ATOM	49087	CA	GLU	Q	49	115.789	75.999	-45.727	1.00	72.96	QS17
ATOM	49088	CB	GLU	Q	49	116.036	74.895	-46.762	1.00	145.09	QS17
ATOM	49089	CG	GLU	Q	49	117.044	73.837	-46.325	1.00	145.09	QS17
ATOM	49090	CD	GLU	Q	49	118.483	74.346	-46.337	1.00	145.09	QS17
ATOM	49091	OE1	GLU	Q	49	118.747	75.431	-45.770	1.00	145.09	QS17
ATOM	49092	OE2	GLU	Q	49	119.354	73.654	-46.908	1.00	145.09	QS17
ATOM	49093	C	GLU	Q	49	115.440	77.302	-46.435	1.00	72.96	QS17
ATOM	49094	O	GLU	Q	49	115.815	77.527	-47.581	1.00	72.96	QS17
ATOM	49095	N	LYS	Q	50	114.700	78.146	-45.727	1.00	68.94	QS17
ATOM	49096	CA	LYS	Q	50	114.232	79.426	-46.230	1.00	68.94	QS17
ATOM	49097	CB	LYS	Q	50	113.135	79.948	-45.294	1.00	137.28	QS17
ATOM	49098	CG	LYS	Q	50	112.513	81.277	-45.685	1.00	137.28	QS17
ATOM	49099	CD	LYS	Q	50	111.293	81.587	-44.816	1.00	137.28	QS17
ATOM	49100	CE	LYS	Q	50	110.535	82.809	-45.333	1.00	137.28	QS17
ATOM	49101	NZ	LYS	Q	50	109.256	83.042	-44.604	1.00	137.28	QS17
ATOM	49102	C	LYS	Q	50	115.343	80.465	-46.359	1.00	68.94	QS17



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ATOM	49103	O	LYS	Q	50	115.640	80.952	-47.457	1.00	68.94	QS17
ATOM	49104	N	TYR	Q	51	115.962	80.793	-45.232	1.00	83.86	QS17
ATOM	49105	CA	TYR	Q	51	117.020	81.791	-45.190	1.00	83.86	QS17
ATOM	49106	CB	TYR	Q	51	117.443	81.996	-43.740	1.00	78.71	QS17
ATOM	49107	CG	TYR	Q	51	116.247	82.324	-42.894	1.00	78.71	QS17
ATOM	49108	CD1	TYR	Q	51	115.392	81.324	-42.461	1.00	78.71	QS17
ATOM	49109	CE1	TYR	Q	51	114.208	81.628	-41.819	1.00	78.71	QS17
ATOM	49110	CD2	TYR	Q	51	115.892	83.645	-42.650	1.00	78.71	QS17
ATOM	49111	CE2	TYR	Q	51	114.709	83.965	-42.008	1.00	78.71	QS17
ATOM	49112	CZ	TYR	Q	51	113.866	82.952	-41.598	1.00	78.71	QS17
ATOM	49113	OH	TYR	Q	51	112.667	83.256	-40.983	1.00	78.71	QS17
ATOM	49114	C	TYR	Q	51	118.231	81.517	-46.072	1.00	83.86	QS17
ATOM	49115	O	TYR	Q	51	118.804	80.429	-46.051	1.00	83.86	QS17
ATOM	49116	N	LYS	Q	52	118.595	82.527	-46.859	1.00	77.18	QS17
ATOM	49117	CA	LYS	Q	52	119.732	82.456	-47.764	1.00	77.18	QS17
ATOM	49118	CB	LYS	Q	52	119.345	82.967	-49.154	1.00151.83	QS17	
ATOM	49119	CG	LYS	Q	52	118.292	82.142	-49.866	1.00151.83	QS17	
ATOM	49120	CD	LYS	Q	52	118.120	82.621	-51.305	1.00151.83	QS17	
ATOM	49121	CE	LYS	Q	52	117.153	81.732	-52.085	1.00151.83	QS17	
ATOM	49122	NZ	LYS	Q	52	117.048	82.102	-53.531	1.00151.83	QS17	
ATOM	49123	C	LYS	Q	52	120.886	83.295	-47.226	1.00	77.18	QS17
ATOM	49124	O	LYS	Q	52	120.737	84.035	-46.246	1.00	77.18	QS17
ATOM	49125	N	LEU	Q	53	122.032	83.186	-47.888	1.00	87.40	QS17
ATOM	49126	CA	LEU	Q	53	123.235	83.911	-47.492	1.00	87.40	QS17
ATOM	49127	CB	LEU	Q	53	124.402	83.478	-48.378	1.00	71.44	QS17
ATOM	49128	CG	LEU	Q	53	125.786	83.724	-47.786	1.00	71.44	QS17
ATOM	49129	CD1	LEU	Q	53	125.812	83.223	-46.359	1.00	71.44	QS17
ATOM	49130	CD2	LEU	Q	53	126.843	83.004	-48.608	1.00	71.44	QS17
ATOM	49131	C	LEU	Q	53	123.057	85.423	-47.564	1.00	87.40	QS17
ATOM	49132	O	LEU	Q	53	122.356	85.929	-48.436	1.00	87.40	QS17
ATOM	49133	N	GLY	Q	54	123.683	86.138	-46.634	1.00	53.43	QS17
ATOM	49134	CA	GLY	Q	54	123.579	87.593	-46.622	1.00	53.43	QS17
ATOM	49135	C	GLY	Q	54	122.376	88.205	-45.908	1.00	53.43	QS17
ATOM	49136	O	GLY	Q	54	122.252	89.439	-45.814	1.00	53.43	QS17
ATOM	49137	N	ASP	Q	55	121.486	87.350	-45.408	1.00	66.24	QS17
ATOM	49138	CA	ASP	Q	55	120.306	87.821	-44.698	1.00	66.24	QS17
ATOM	49139	CB	ASP	Q	55	119.270	86.711	-44.552	1.00	91.73	QS17
ATOM	49140	CG	ASP	Q	55	118.615	86.353	-45.849	1.00	91.73	QS17
ATOM	49141	OD1	ASP	Q	55	118.285	87.281	-46.612	1.00	91.73	QS17
ATOM	49142	OD2	ASP	Q	55	118.412	85.149	-46.099	1.00	91.73	QS17
ATOM	49143	C	ASP	Q	55	120.650	88.294	-43.308	1.00	66.24	QS17
ATOM	49144	O	ASP	Q	55	121.645	87.868	-42.717	1.00	66.24	QS17
ATOM	49145	N	VAL	Q	56	119.815	89.179	-42.788	1.00	59.29	QS17
ATOM	49146	CA	VAL	Q	56	119.982	89.678	-41.433	1.00	59.29	QS17
ATOM	49147	CB	VAL	Q	56	119.863	91.195	-41.342	1.00	55.41	QS17
ATOM	49148	CG1	VAL	Q	56	119.770	91.610	-39.887	1.00	55.41	QS17
ATOM	49149	CG2	VAL	Q	56	121.064	91.841	-41.999	1.00	55.41	QS17
ATOM	49150	C	VAL	Q	56	118.803	89.085	-40.720	1.00	59.29	QS17
ATOM	49151	O	VAL	Q	56	117.669	89.408	-41.035	1.00	59.29	QS17
ATOM	49152	N	VAL	Q	57	119.052	88.218	-39.759	1.00	50.87	QS17
ATOM	49153	CA	VAL	Q	57	117.935	87.600	-39.082	1.00	50.87	QS17
ATOM	49154	CB	VAL	Q	57	117.867	86.102	-39.418	1.00	44.55	QS17
ATOM	49155	CG1	VAL	Q	57	117.757	85.918	-40.903	1.00	44.55	QS17
ATOM	49156	CG2	VAL	Q	57	119.110	85.399	-38.910	1.00	44.55	QS17
ATOM	49157	C	VAL	Q	57	117.943	87.741	-37.575	1.00	50.87	QS17
ATOM	49158	O	VAL	Q	57	118.924	88.190	-36.965	1.00	50.87	QS17
ATOM	49159	N	GLU	Q	58	116.817	87.369	-36.984	1.00	58.88	QS17
ATOM	49160	CA	GLU	Q	58	116.684	87.390	-35.551	1.00	58.88	QS17
ATOM	49161	CB	GLU	Q	58	115.348	87.964	-35.132	1.00	80.00	QS17
ATOM	49162	CG	GLU	Q	58	115.132	89.373	-35.556	1.00	80.00	QS17
ATOM	49163	CD	GLU	Q	58	114.143	90.050	-34.651	1.00	80.00	QS17
ATOM	49164	OE1	GLU	Q	58	113.047	89.482	-34.440	1.00	80.00	QS17
ATOM	49165	OE2	GLU	Q	58	114.463	91.145	-34.144	1.00	80.00	QS17
ATOM	49166	C	GLU	Q	58	116.754	85.936	-35.145	1.00	58.88	QS17
ATOM	49167	O	GLU	Q	58	116.092	85.075	-35.717	1.00	58.88	QS17
ATOM	49168	N	ILE	Q	59	117.582	85.661	-34.160	1.00	49.58	QS17
ATOM	49169	CA	ILE	Q	59	117.743	84.318	-33.679	1.00	49.58	QS17
ATOM	49170	CB	ILE	Q	59	119.248	84.030	-33.506	1.00	59.63	QS17
ATOM	49171	CG2	ILE	Q	59	119.482	82.825	-32.701	1.00	59.63	QS17
ATOM	49172	CG1	ILE	Q	59	119.845	83.766	-34.871	1.00	59.63	QS17
ATOM	49173	CD1	ILE	Q	59	118.954	82.861	-35.700	1.00	59.63	QS17
ATOM	49174	C	ILE	Q	59	116.970	84.268	-32.377	1.00	49.58	QS17
ATOM	49175	O	ILE	Q	59	116.835	85.288	-31.684	1.00	49.58	QS17
ATOM	49176	N	ILE	Q	60	116.441	83.099	-32.043	1.00	48.20	QS17
ATOM	49177	CA	ILE	Q	60	115.668	82.990	-30.818	1.00	48.20	QS17
ATOM	49178	CB	ILE	Q	60	114.166	82.892	-31.157	1.00	61.62	QS17
ATOM	49179	CG2	ILE	Q	60	113.817	81.455	-31.489	1.00	61.62	QS17



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ATOM	49180	CG1	ILE	Q	60	113.311	83.416	-30.000	1.00	61.62	QS17
ATOM	49181	CD1	ILE	Q	60	113.224	82.482	-28.822	1.00	61.62	QS17
ATOM	49182	C	ILE	Q	60	116.100	81.784	-29.995	1.00	48.20	QS17
ATOM	49183	O	ILE	Q	60	116.351	80.705	-30.554	1.00	48.20	QS17
ATOM	49184	N	GLU	Q	61	116.193	81.983	-28.674	1.00	60.62	QS17
ATOM	49185	CA	GLU	Q	61	116.586	80.926	-27.745	1.00	60.62	QS17
ATOM	49186	CB	GLU	Q	61	116.604	81.439	-26.296	1.00	55.88	QS17
ATOM	49187	CG	GLU	Q	61	117.138	80.403	-25.287	1.00	55.88	QS17
ATOM	49188	CD	GLU	Q	61	117.420	80.952	-23.867	1.00	55.88	QS17
ATOM	49189	OE1	GLU	Q	61	118.069	80.213	-23.092	1.00	55.88	QS17
ATOM	49190	OE2	GLU	Q	61	117.005	82.087	-23.513	1.00	55.88	QS17
ATOM	49191	C	GLU	Q	61	115.583	79.795	-27.885	1.00	60.62	QS17
ATOM	49192	O	GLU	Q	61	114.374	80.000	-27.740	1.00	60.62	QS17
ATOM	49193	N	SER	Q	62	116.076	78.597	-28.177	1.00	58.08	QS17
ATOM	49194	CA	SER	Q	62	115.178	77.463	-28.355	1.00	58.08	QS17
ATOM	49195	CB	SER	Q	62	114.989	77.174	-29.856	1.00	76.12	QS17
ATOM	49196	OG	SER	Q	62	114.455	78.289	-30.544	1.00	76.12	QS17
ATOM	49197	C	SER	Q	62	115.607	76.171	-27.659	1.00	58.08	QS17
ATOM	49198	O	SER	Q	62	116.672	76.084	-27.036	1.00	58.08	QS17
ATOM	49199	N	ARG	Q	63	114.745	75.169	-27.787	1.00	62.85	QS17
ATOM	49200	CA	ARG	Q	63	114.979	73.849	-27.236	1.00	62.85	QS17
ATOM	49201	CB	ARG	Q	63	113.693	73.023	-27.286	1.00	65.32	QS17
ATOM	49202	CG	ARG	Q	63	113.837	71.602	-26.760	1.00	65.32	QS17
ATOM	49203	CD	ARG	Q	63	113.269	70.619	-27.745	1.00	65.32	QS17
ATOM	49204	NE	ARG	Q	63	111.899	70.971	-28.080	1.00	65.32	QS17
ATOM	49205	CZ	ARG	Q	63	111.254	70.505	-29.140	1.00	65.32	QS17
ATOM	49206	NH1	ARG	Q	63	111.852	69.663	-29.980	1.00	65.32	QS17
ATOM	49207	NH2	ARG	Q	63	110.012	70.885	-29.361	1.00	65.32	QS17
ATOM	49208	C	ARG	Q	63	116.019	73.212	-28.140	1.00	62.85	QS17
ATOM	49209	O	ARG	Q	63	115.976	73.377	-29.362	1.00	62.85	QS17
ATOM	49210	N	PRO	Q	64	116.973	72.481	-27.551	1.00	50.23	QS17
ATOM	49211	CD	PRO	Q	64	117.217	72.310	-26.106	1.00	46.12	QS17
ATOM	49212	CA	PRO	Q	64	118.019	71.827	-28.333	1.00	50.23	QS17
ATOM	49213	CB	PRO	Q	64	118.646	70.888	-27.320	1.00	46.12	QS17
ATOM	49214	CG	PRO	Q	64	118.629	71.737	-26.077	1.00	46.12	QS17
ATOM	49215	C	PRO	Q	64	117.504	71.118	-29.572	1.00	50.23	QS17
ATOM	49216	O	PRO	Q	64	116.535	70.366	-29.518	1.00	50.23	QS17
ATOM	49217	N	ILE	Q	65	118.163	71.378	-30.692	1.00	62.29	QS17
ATOM	49218	CA	ILE	Q	65	117.792	70.787	-31.967	1.00	62.29	QS17
ATOM	49219	CB	ILE	Q	65	117.623	71.874	-33.033	1.00	48.35	QS17
ATOM	49220	CG2	ILE	Q	65	117.315	71.238	-34.397	1.00	48.35	QS17
ATOM	49221	CG1	ILE	Q	65	116.549	72.855	-32.571	1.00	48.35	QS17
ATOM	49222	CD1	ILE	Q	65	116.269	73.962	-33.530	1.00	48.35	QS17
ATOM	49223	C	ILE	Q	65	118.900	69.858	-32.413	1.00	62.29	QS17
ATOM	49224	O	ILE	Q	65	118.700	68.935	-33.215	1.00	62.29	QS17
ATOM	49225	N	SER	Q	66	120.080	70.121	-31.877	1.00	65.70	QS17
ATOM	49226	CA	SER	Q	66	121.256	69.351	-32.199	1.00	65.70	QS17
ATOM	49227	CB	SER	Q	66	121.734	69.739	-33.593	1.00	88.91	QS17
ATOM	49228	OG	SER	Q	66	123.053	69.295	-33.802	1.00	88.91	QS17
ATOM	49229	C	SER	Q	66	122.306	69.713	-31.170	1.00	65.70	QS17
ATOM	49230	O	SER	Q	66	122.079	70.579	-30.328	1.00	65.70	QS17
ATOM	49231	N	LYS	Q	67	123.437	69.025	-31.204	1.00	61.70	QS17
ATOM	49232	CA	LYS	Q	67	124.528	69.360	-30.306	1.00	61.70	QS17
ATOM	49233	CB	LYS	Q	67	125.673	68.379	-30.484	1.00	61.29	QS17
ATOM	49234	CG	LYS	Q	67	127.057	68.930	-30.153	1.00	61.29	QS17
ATOM	49235	CD	LYS	Q	67	128.099	67.919	-30.595	1.00	61.29	QS17
ATOM	49236	CE	LYS	Q	67	129.502	68.333	-30.244	1.00	61.29	QS17
ATOM	49237	NZ	LYS	Q	67	130.454	67.212	-30.512	1.00	61.29	QS17
ATOM	49238	C	LYS	Q	67	124.936	70.660	-30.926	1.00	61.70	QS17
ATOM	49239	O	LYS	Q	67	124.586	70.901	-32.069	1.00	61.70	QS17
ATOM	49240	N	ARG	Q	68	125.652	71.512	-30.214	1.00	74.57	QS17
ATOM	49241	CA	ARG	Q	68	126.082	72.754	-30.854	1.00	74.57	QS17
ATOM	49242	CB	ARG	Q	68	127.272	72.438	-31.776	1.00	68.01	QS17
ATOM	49243	CG	ARG	Q	68	127.903	73.632	-32.458	1.00	68.01	QS17
ATOM	49244	CD	ARG	Q	68	128.958	74.288	-31.584	1.00	68.01	QS17
ATOM	49245	NE	ARG	Q	68	129.334	75.601	-32.091	1.00	68.01	QS17
ATOM	49246	CZ	ARG	Q	68	129.650	75.851	-33.358	1.00	68.01	QS17
ATOM	49247	NH1	ARG	Q	68	129.632	74.875	-34.256	1.00	68.01	QS17
ATOM	49248	NH2	ARG	Q	68	129.987	77.081	-33.729	1.00	68.01	QS17
ATOM	49249	C	ARG	Q	68	124.942	73.356	-31.694	1.00	74.57	QS17
ATOM	49250	O	ARG	Q	68	125.114	73.560	-32.890	1.00	74.57	QS17
ATOM	49251	N	LYS	Q	69	123.788	73.630	-31.084	1.00	53.13	QS17
ATOM	49252	CA	LYS	Q	69	122.639	74.174	-31.823	1.00	53.13	QS17
ATOM	49253	CB	LYS	Q	69	122.277	73.251	-32.995	1.00	47.52	QS17
ATOM	49254	CG	LYS	Q	69	121.227	73.803	-33.933	1.00	47.52	QS17
ATOM	49255	CD	LYS	Q	69	121.153	72.953	-35.190	1.00	47.52	QS17
ATOM	49256	CE	LYS	Q	69	120.052	73.445	-36.111	1.00	47.52	QS17



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ATOM	49257	NZ	LYS	Q	69	119.815	72.553	-37.292	1.00	47.52	QS17
ATOM	49258	C	LYS	Q	69	121.423	74.336	-30.915	1.00	53.13	QS17
ATOM	49259	O	LYS	Q	69	120.707	73.377	-30.613	1.00	53.13	QS17
ATOM	49260	N	ARG	Q	70	121.193	75.573	-30.504	1.00	55.95	QS17
ATOM	49261	CA	ARG	Q	70	120.097	75.888	-29.613	1.00	55.95	QS17
ATOM	49262	CB	ARG	Q	70	120.630	76.034	-28.193	1.00	54.77	QS17
ATOM	49263	CG	ARG	Q	70	120.879	74.758	-27.441	1.00	54.77	QS17
ATOM	49264	CD	ARG	Q	70	122.104	73.991	-27.852	1.00	54.77	QS17
ATOM	49265	NE	ARG	Q	70	122.152	72.790	-27.020	1.00	54.77	QS17
ATOM	49266	CZ	ARG	Q	70	122.750	71.645	-27.342	1.00	54.77	QS17
ATOM	49267	NH1	ARG	Q	70	123.392	71.502	-28.497	1.00	54.77	QS17
ATOM	49268	NH2	ARG	Q	70	122.665	70.616	-26.515	1.00	54.77	QS17
ATOM	49269	C	ARG	Q	70	119.364	77.175	-30.001	1.00	55.95	QS17
ATOM	49270	O	ARG	Q	70	118.878	77.909	-29.130	1.00	55.95	QS17
ATOM	49271	N	PHE	Q	71	119.277	77.461	-31.294	1.00	54.46	QS17
ATOM	49272	CA	PHE	Q	71	118.595	78.676	-31.727	1.00	54.46	QS17
ATOM	49273	CB	PHE	Q	71	119.609	79.812	-31.934	1.00	47.55	QS17
ATOM	49274	CG	PHE	Q	71	120.058	80.493	-30.647	1.00	47.55	QS17
ATOM	49275	CD1	PHE	Q	71	119.283	81.499	-30.059	1.00	47.55	QS17
ATOM	49276	CD2	PHE	Q	71	121.261	80.135	-30.032	1.00	47.55	QS17
ATOM	49277	CE1	PHE	Q	71	119.697	82.141	-28.882	1.00	47.55	QS17
ATOM	49278	CE2	PHE	Q	71	121.684	80.771	-28.848	1.00	47.55	QS17
ATOM	49279	CZ	PHE	Q	71	120.902	81.773	-28.275	1.00	47.55	QS17
ATOM	49280	C	PHE	Q	71	117.815	78.451	-33.009	1.00	54.46	QS17
ATOM	49281	O	PHE	Q	71	118.176	77.618	-33.849	1.00	54.46	QS17
ATOM	49282	N	ARG	Q	72	116.733	79.195	-33.161	1.00	53.68	QS17
ATOM	49283	CA	ARG	Q	72	115.935	79.067	-34.357	1.00	53.68	QS17
ATOM	49284	CB	ARG	Q	72	114.554	78.549	-33.999	1.00	55.14	QS17
ATOM	49285	CG	ARG	Q	72	114.553	77.127	-33.471	1.00	55.14	QS17
ATOM	49286	CD	ARG	Q	72	113.141	76.662	-33.204	1.00	55.14	QS17
ATOM	49287	NE	ARG	Q	72	112.572	77.364	-32.065	1.00	55.14	QS17
ATOM	49288	CZ	ARG	Q	72	111.270	77.444	-31.821	1.00	55.14	QS17
ATOM	49289	NH1	ARG	Q	72	110.409	76.863	-32.648	1.00	55.14	QS17
ATOM	49290	NH2	ARG	Q	72	110.828	78.098	-30.751	1.00	55.14	QS17
ATOM	49291	C	ARG	Q	72	115.834	80.426	-35.013	1.00	53.68	QS17
ATOM	49292	O	ARG	Q	72	115.850	81.449	-34.320	1.00	53.68	QS17
ATOM	49293	N	VAL	Q	73	115.756	80.441	-36.342	1.00	56.19	QS17
ATOM	49294	CA	VAL	Q	73	115.651	81.698	-37.071	1.00	56.19	QS17
ATOM	49295	CB	VAL	Q	73	115.894	81.522	-38.568	1.00	198.94	QS17
ATOM	49296	CG1	VAL	Q	73	116.061	82.861	-39.218	1.00	37.34	QS17
ATOM	49297	CG2	VAL	Q	73	117.118	80.723	-38.790	1.00	37.34	QS17
ATOM	49298	C	VAL	Q	73	114.238	82.202	-36.872	1.00	56.19	QS17
ATOM	49299	O	VAL	Q	73	113.317	81.786	-37.567	1.00	56.19	QS17
ATOM	49300	N	LEU	Q	74	114.074	83.096	-35.906	1.00	66.08	QS17
ATOM	49301	CA	LEU	Q	74	112.774	83.653	-35.580	1.00	66.08	QS17
ATOM	49302	CB	LEU	Q	74	112.916	84.638	-34.426	1.00	46.16	QS17
ATOM	49303	CG	LEU	Q	74	111.630	85.207	-33.842	1.00	46.16	QS17
ATOM	49304	CD1	LEU	Q	74	111.983	86.144	-32.697	1.00	46.16	QS17
ATOM	49305	CD2	LEU	Q	74	110.858	85.954	-34.908	1.00	46.16	QS17
ATOM	49306	C	LEU	Q	74	112.131	84.339	-36.768	1.00	66.08	QS17
ATOM	49307	O	LEU	Q	74	110.997	84.027	-37.118	1.00	66.08	QS17
ATOM	49308	N	ARG	Q	75	112.840	85.290	-37.369	1.00	78.08	QS17
ATOM	49309	CA	ARG	Q	75	112.316	86.013	-38.524	1.00	78.08	QS17
ATOM	49310	CB	ARG	Q	75	111.230	86.992	-38.110	1.00	79.84	QS17
ATOM	49311	CG	ARG	Q	75	111.761	88.224	-37.443	1.00	79.84	QS17
ATOM	49312	CD	ARG	Q	75	110.614	89.024	-36.900	1.00	79.84	QS17
ATOM	49313	NE	ARG	Q	75	111.046	90.275	-36.288	1.00	79.84	QS17
ATOM	49314	CZ	ARG	Q	75	111.648	91.262	-36.945	1.00	79.84	QS17
ATOM	49315	NH1	ARG	Q	75	111.896	91.142	-38.245	1.00	79.84	QS17
ATOM	49316	NH2	ARG	Q	75	111.986	92.379	-36.305	1.00	79.84	QS17
ATOM	49317	C	ARG	Q	75	113.408	86.787	-39.219	1.00	78.08	QS17
ATOM	49318	O	ARG	Q	75	114.516	86.921	-38.707	1.00	78.08	QS17
ATOM	49319	N	LEU	Q	76	113.076	87.321	-40.383	1.00	72.26	QS17
ATOM	49320	CA	LEU	Q	76	114.038	88.061	-41.174	1.00	72.26	QS17
ATOM	49321	CB	LEU	Q	76	113.797	87.772	-42.649	1.00	54.89	QS17
ATOM	49322	CG	LEU	Q	76	114.646	88.505	-43.675	1.00	54.89	QS17
ATOM	49323	CD1	LEU	Q	76	114.576	87.747	-44.980	1.00	54.89	QS17
ATOM	49324	CD2	LEU	Q	76	114.150	89.934	-43.849	1.00	54.89	QS17
ATOM	49325	C	LEU	Q	76	113.950	89.548	-40.906	1.00	72.26	QS17
ATOM	49326	O	LEU	Q	76	112.870	90.076	-40.681	1.00	72.26	QS17
ATOM	49327	N	VAL	Q	77	115.093	90.221	-40.929	1.00	63.37	QS17
ATOM	49328	CA	VAL	Q	77	115.138	91.652	-40.685	1.00	63.37	QS17
ATOM	49329	CB	VAL	Q	77	116.338	92.022	-39.818	1.00	70.31	QS17
ATOM	49330	CG1	VAL	Q	77	116.417	93.523	-39.654	1.00	70.31	QS17
ATOM	49331	CG2	VAL	Q	77	116.193	91.364	-38.451	1.00	70.31	QS17
ATOM	49332	C	VAL	Q	77	115.241	92.329	-42.028	1.00	63.37	QS17
ATOM	49333	O	VAL	Q	77	114.253	92.834	-42.539	1.00	63.37	QS17



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ATOM	49334	N	GLU	Q	78	116.434	92.370	-42.598	1.00	70.00	QS17
ATOM	49335	CA	GLU	Q	78	116.577	92.943	-43.923	1.00	70.00	QS17
ATOM	49336	CB	GLU	Q	78	117.353	94.265	-43.903	1.00	94.54	QS17
ATOM	49337	CG	GLU	Q	78	118.808	94.176	-43.503	1.00	94.54	QS17
ATOM	49338	CD	GLU	Q	78	119.610	95.385	-43.976	1.00	94.54	QS17
ATOM	49339	OE1	GLU	Q	78	119.760	95.559	-45.203	1.00	94.54	QS17
ATOM	49340	OE2	GLU	Q	78	120.087	96.164	-43.125	1.00	94.54	QS17
ATOM	49341	C	GLU	Q	78	117.338	91.873	-44.667	1.00	70.00	QS17
ATOM	49342	O	GLU	Q	78	118.209	91.225	-44.090	1.00	70.00	QS17
ATOM	49343	N	SER	Q	79	116.995	91.654	-45.929	1.00	74.70	QS17
ATOM	49344	CA	SER	Q	79	117.661	90.622	-46.717	1.00	74.70	QS17
ATOM	49345	CB	SER	Q	79	116.645	89.906	-47.611	1.00	142.18	QS17
ATOM	49346	OG	SER	Q	79	117.284	89.015	-48.511	1.00	142.18	QS17
ATOM	49347	C	SER	Q	79	118.792	91.156	-47.579	1.00	74.70	QS17
ATOM	49348	O	SER	Q	79	119.015	92.362	-47.659	1.00	74.70	QS17
ATOM	49349	N	GLY	Q	80	119.503	90.230	-48.214	1.00	122.41	QS17
ATOM	49350	CA	GLY	Q	80	120.601	90.572	-49.098	1.00	122.41	QS17
ATOM	49351	C	GLY	Q	80	121.529	91.707	-48.706	1.00	122.41	QS17
ATOM	49352	O	GLY	Q	80	121.192	92.883	-48.850	1.00	122.41	QS17
ATOM	49353	N	ARG	Q	81	122.705	91.349	-48.204	1.00	79.91	QS17
ATOM	49354	CA	ARG	Q	81	123.713	92.330	-47.834	1.00	79.91	QS17
ATOM	49355	CB	ARG	Q	81	123.242	93.194	-46.685	1.00	67.90	QS17
ATOM	49356	CG	ARG	Q	81	123.095	92.499	-45.403	1.00	67.90	QS17
ATOM	49357	CD	ARG	Q	81	123.014	93.593	-44.413	1.00	67.90	QS17
ATOM	49358	NE	ARG	Q	81	124.174	94.467	-44.550	1.00	67.90	QS17
ATOM	49359	CZ	ARG	Q	81	124.150	95.772	-44.307	1.00	67.90	QS17
ATOM	49360	NH1	ARG	Q	81	123.020	96.356	-43.927	1.00	67.90	QS17
ATOM	49361	NH2	ARG	Q	81	125.257	96.490	-44.419	1.00	67.90	QS17
ATOM	49362	C	ARG	Q	81	125.032	91.653	-47.500	1.00	79.91	QS17
ATOM	49363	O	ARG	Q	81	125.469	91.579	-46.345	1.00	79.91	QS17
ATOM	49364	N	MET	Q	82	125.642	91.171	-48.578	1.00	77.77	QS17
ATOM	49365	CA	MET	Q	82	126.905	90.466	-48.577	1.00	77.77	QS17
ATOM	49366	CB	MET	Q	82	127.218	89.993	-49.996	1.00	110.58	QS17
ATOM	49367	CG	MET	Q	82	126.049	89.309	-50.681	1.00	110.58	QS17
ATOM	49368	SD	MET	Q	82	125.309	88.055	-49.634	1.00	110.58	QS17
ATOM	49369	CE	MET	Q	82	126.592	86.784	-49.663	1.00	110.58	QS17
ATOM	49370	C	MET	Q	82	128.035	91.340	-48.070	1.00	77.77	QS17
ATOM	49371	O	MET	Q	82	129.057	90.839	-47.594	1.00	77.77	QS17
ATOM	49372	N	ASP	Q	83	127.866	92.647	-48.190	1.00	72.01	QS17
ATOM	49373	CA	ASP	Q	83	128.889	93.546	-47.703	1.00	72.01	QS17
ATOM	49374	CB	ASP	Q	83	128.300	94.947	-47.517	1.00	101.32	QS17
ATOM	49375	CG	ASP	Q	83	127.308	95.017	-46.371	1.00	101.32	QS17
ATOM	49376	OD1	ASP	Q	83	126.420	94.137	-46.278	1.00	101.32	QS17
ATOM	49377	OD2	ASP	Q	83	127.419	95.962	-45.564	1.00	101.32	QS17
ATOM	49378	C	ASP	Q	83	129.352	92.963	-46.359	1.00	72.01	QS17
ATOM	49379	O	ASP	Q	83	130.545	92.940	-46.043	1.00	72.01	QS17
ATOM	49380	N	LEU	Q	84	128.394	92.454	-45.591	1.00	69.35	QS17
ATOM	49381	CA	LEU	Q	84	128.681	91.864	-44.296	1.00	69.35	QS17
ATOM	49382	CB	LEU	Q	84	127.401	91.701	-43.510	1.00	44.23	QS17
ATOM	49383	CG	LEU	Q	84	127.190	92.978	-42.718	1.00	44.23	QS17
ATOM	49384	CD1	LEU	Q	84	125.876	92.933	-41.958	1.00	44.23	QS17
ATOM	49385	CD2	LEU	Q	84	128.392	93.141	-41.784	1.00	44.23	QS17
ATOM	49386	C	LEU	Q	84	129.381	90.541	-44.391	1.00	69.35	QS17
ATOM	49387	O	LEU	Q	84	130.362	90.309	-43.692	1.00	69.35	QS17
ATOM	49388	N	VAL	Q	85	128.867	89.660	-45.239	1.00	46.10	QS17
ATOM	49389	CA	VAL	Q	85	129.495	88.363	-45.430	1.00	46.10	QS17
ATOM	49390	CB	VAL	Q	85	128.798	87.576	-46.555	1.00	69.03	QS17
ATOM	49391	CG1	VAL	Q	85	129.574	86.325	-46.879	1.00	69.03	QS17
ATOM	49392	CG2	VAL	Q	85	127.399	87.204	-46.126	1.00	69.03	QS17
ATOM	49393	C	VAL	Q	85	130.975	88.589	-45.786	1.00	46.10	QS17
ATOM	49394	O	VAL	Q	85	131.851	87.831	-45.367	1.00	46.10	QS17
ATOM	49395	N	GLU	Q	86	131.245	89.647	-46.546	1.00	60.86	QS17
ATOM	49396	CA	GLU	Q	86	132.610	89.982	-46.934	1.00	60.86	QS17
ATOM	49397	CB	GLU	Q	86	132.625	91.281	-47.735	1.00	154.64	QS17
ATOM	49398	CG	GLU	Q	86	131.999	91.126	-49.086	1.00	154.64	QS17
ATOM	49399	CD	GLU	Q	86	132.511	89.888	-49.775	1.00	154.64	QS17
ATOM	49400	OE1	GLU	Q	86	133.736	89.799	-49.992	1.00	154.64	QS17
ATOM	49401	OE2	GLU	Q	86	131.693	88.997	-50.085	1.00	154.64	QS17
ATOM	49402	C	GLU	Q	86	133.513	90.135	-45.720	1.00	60.86	QS17
ATOM	49403	O	GLU	Q	86	134.524	89.438	-45.603	1.00	60.86	QS17
ATOM	49404	N	LYS	Q	87	133.149	91.058	-44.829	1.00	60.45	QS17
ATOM	49405	CA	LYS	Q	87	133.925	91.296	-43.615	1.00	60.45	QS17
ATOM	49406	CB	LYS	Q	87	133.126	92.132	-42.606	1.00	81.51	QS17
ATOM	49407	CG	LYS	Q	87	133.064	93.629	-42.896	1.00	81.51	QS17
ATOM	49408	CD	LYS	Q	87	132.235	94.366	-41.834	1.00	81.51	QS17
ATOM	49409	CE	LYS	Q	87	131.839	95.781	-42.290	1.00	81.51	QS17
ATOM	49410	NZ	LYS	Q	87	130.651	96.326	-41.550	1.00	81.51	QS17



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ATOM	49411	C	LYS	Q	87	134.299	89.967	-42.971	1.00	60.45	QS17
ATOM	49412	O	LYS	Q	87	135.422	89.785	-42.501	1.00	60.45	QS17
ATOM	49413	N	TYR	Q	88	133.341	89.046	-42.952	1.00	58.65	QS17
ATOM	49414	CA	TYR	Q	88	133.563	87.732	-42.379	1.00	58.65	QS17
ATOM	49415	CB	TYR	Q	88	132.234	87.000	-42.210	1.00	63.06	QS17
ATOM	49416	CG	TYR	Q	88	132.396	85.578	-41.726	1.00	63.06	QS17
ATOM	49417	CD1	TYR	Q	88	132.982	85.308	-40.487	1.00	63.06	QS17
ATOM	49418	CE1	TYR	Q	88	133.146	83.997	-40.029	1.00	63.06	QS17
ATOM	49419	CD2	TYR	Q	88	131.974	84.504	-42.503	1.00	63.06	QS17
ATOM	49420	CE2	TYR	Q	88	132.130	83.193	-42.061	1.00	63.06	QS17
ATOM	49421	CZ	TYR	Q	88	132.718	82.946	-40.821	1.00	63.06	QS17
ATOM	49422	OH	TYR	Q	88	132.887	81.656	-40.377	1.00	63.06	QS17
ATOM	49423	C	TYR	Q	88	134.487	86.887	-43.256	1.00	58.65	QS17
ATOM	49424	O	TYR	Q	88	135.542	86.429	-42.815	1.00	58.65	QS17
ATOM	49425	N	LEU	Q	89	134.085	86.688	-44.505	1.00	66.38	QS17
ATOM	49426	CA	LEU	Q	89	134.861	85.877	-45.431	1.00	66.38	QS17
ATOM	49427	CB	LEU	Q	89	134.194	85.870	-46.804	1.00	58.58	QS17
ATOM	49428	CG	LEU	Q	89	132.870	85.101	-46.843	1.00	58.58	QS17
ATOM	49429	CD1	LEU	Q	89	132.400	84.980	-48.275	1.00	58.58	QS17
ATOM	49430	CD2	LEU	Q	89	133.050	83.717	-46.245	1.00	58.58	QS17
ATOM	49431	C	LEU	Q	89	136.315	86.288	-45.560	1.00	66.38	QS17
ATOM	49432	O	LEU	Q	89	137.217	85.455	-45.452	1.00	66.38	QS17
ATOM	49433	N	ILE	Q	90	136.549	87.568	-45.798	1.00	64.13	QS17
ATOM	49434	CA	ILE	Q	90	137.915	88.046	-45.927	1.00	64.13	QS17
ATOM	49435	CB	ILE	Q	90	137.949	89.552	-46.208	1.00	74.81	QS17
ATOM	49436	CG2	ILE	Q	90	139.377	90.008	-46.434	1.00	74.81	QS17
ATOM	49437	CG1	ILE	Q	90	137.103	89.859	-47.439	1.00	74.81	QS17
ATOM	49438	CD1	ILE	Q	90	136.871	91.334	-47.653	1.00	74.81	QS17
ATOM	49439	C	ILE	Q	90	138.677	87.765	-44.632	1.00	64.13	QS17
ATOM	49440	O	ILE	Q	90	139.815	87.288	-44.669	1.00	64.13	QS17
ATOM	49441	N	ARG	Q	91	138.048	88.049	-43.490	1.00	53.13	QS17
ATOM	49442	CA	ARG	Q	91	138.702	87.825	-42.201	1.00	53.13	QS17
ATOM	49443	CB	ARG	Q	91	137.720	88.016	-41.041	1.00129.51		QS17
ATOM	49444	CG	ARG	Q	91	138.412	88.185	-39.692	1.00129.51		QS17
ATOM	49445	CD	ARG	Q	91	137.522	87.791	-38.523	1.00129.51		QS17
ATOM	49446	NE	ARG	Q	91	136.316	88.606	-38.427	1.00129.51		QS17
ATOM	49447	CZ	ARG	Q	91	135.351	88.406	-37.534	1.00129.51		QS17
ATOM	49448	NH1	ARG	Q	91	135.451	87.414	-36.654	1.00129.51		QS17
ATOM	49449	NH2	ARG	Q	91	134.283	89.196	-37.524	1.00129.51		QS17
ATOM	49450	C	ARG	Q	91	139.257	86.404	-42.180	1.00	53.13	QS17
ATOM	49451	O	ARG	Q	91	140.426	86.176	-41.848	1.00	53.13	QS17
ATOM	49452	N	ARG	Q	92	138.404	85.452	-42.544	1.00	57.73	QS17
ATOM	49453	CA	ARG	Q	92	138.798	84.055	-42.591	1.00	57.73	QS17
ATOM	49454	CB	ARG	Q	92	137.606	83.201	-43.016	1.00154.01		QS17
ATOM	49455	CG	ARG	Q	92	137.943	81.739	-43.217	1.00154.01		QS17
ATOM	49456	CD	ARG	Q	92	136.976	81.102	-44.187	1.00154.01		QS17
ATOM	49457	NE	ARG	Q	92	135.601	81.194	-43.718	1.00154.01		QS17
ATOM	49458	CZ	ARG	Q	92	134.552	80.812	-44.434	1.00154.01		QS17
ATOM	49459	NH1	ARG	Q	92	134.732	80.316	-45.651	1.00154.01		QS17
ATOM	49460	NH2	ARG	Q	92	133.328	80.920	-43.934	1.00154.01		QS17
ATOM	49461	C	ARG	Q	92	139.931	83.892	-43.611	1.00	57.73	QS17
ATOM	49462	O	ARG	Q	92	140.960	83.264	-43.343	1.00	57.73	QS17
ATOM	49463	N	GLN	Q	93	139.717	84.467	-44.787	1.00	62.03	QS17
ATOM	49464	CA	GLN	Q	93	140.677	84.405	-45.869	1.00	62.03	QS17
ATOM	49465	CB	GLN	Q	93	140.250	85.388	-46.954	1.00159.37		QS17
ATOM	49466	CG	GLN	Q	93	140.838	85.129	-48.314	1.00159.37		QS17
ATOM	49467	CD	GLN	Q	93	140.025	85.795	-49.400	1.00159.37		QS17
ATOM	49468	OE1	GLN	Q	93	138.833	85.523	-49.554	1.00159.37		QS17
ATOM	49469	NE2	GLN	Q	93	140.661	86.677	-50.157	1.00159.37		QS17
ATOM	49470	C	GLN	Q	93	142.099	84.713	-45.401	1.00	62.03	QS17
ATOM	49471	O	GLN	Q	93	143.062	84.132	-45.907	1.00	62.03	QS17
ATOM	49472	N	ASN	Q	94	142.235	85.619	-44.435	1.00	64.76	QS17
ATOM	49473	CA	ASN	Q	94	143.556	85.986	-43.925	1.00	64.76	QS17
ATOM	49474	CB	ASN	Q	94	143.495	87.305	-43.152	1.00	89.82	QS17
ATOM	49475	CG	ASN	Q	94	143.080	88.476	-44.027	1.00	89.82	QS17
ATOM	49476	OD1	ASN	Q	94	143.572	88.636	-45.149	1.00	89.82	QS17
ATOM	49477	ND2	ASN	Q	94	142.180	89.312	-43.512	1.00	89.82	QS17
ATOM	49478	C	ASN	Q	94	144.161	84.911	-43.034	1.00	64.76	QS17
ATOM	49479	O	ASN	Q	94	145.372	84.793	-42.945	1.00	64.76	QS17
ATOM	49480	N	TYR	Q	95	143.318	84.126	-42.377	1.00	79.29	QS17
ATOM	49481	CA	TYR	Q	95	143.793	83.058	-41.496	1.00	79.29	QS17
ATOM	49482	CB	TYR	Q	95	142.599	82.274	-40.937	1.00	99.90	QS17
ATOM	49483	CG	TYR	Q	95	141.841	83.046	-39.896	1.00	99.90	QS17
ATOM	49484	CD1	TYR	Q	95	141.904	84.441	-39.875	1.00	99.90	QS17
ATOM	49485	CE1	TYR	Q	95	141.257	85.181	-38.902	1.00	99.90	QS17
ATOM	49486	CD2	TYR	Q	95	141.092	82.399	-38.913	1.00	99.90	QS17
ATOM	49487	CE2	TYR	Q	95	140.429	83.133	-37.925	1.00	99.90	QS17



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ATOM	49488	CZ	TYR	Q	95	140.524	84.533	-37.926	1.00	99.90	QS17
ATOM	49489	OH	TYR	Q	95	139.928	85.306	-36.947	1.00	99.90	QS17
ATOM	49490	C	TYR	Q	95	144.735	82.107	-42.216	1.00	79.29	QS17
ATOM	49491	O	TYR	Q	95	145.878	81.904	-41.796	1.00	79.29	QS17
ATOM	49492	N	GLN	Q	96	144.231	81.527	-43.301	1.00171.18		QS17
ATOM	49493	CA	GLN	Q	96	144.966	80.577	-44.130	1.00171.18		QS17
ATOM	49494	CB	GLN	Q	96	144.161	80.317	-45.420	1.00198.94		QS17
ATOM	49495	CG	GLN	Q	96	144.938	80.325	-46.732	1.00198.94		QS17
ATOM	49496	CD	GLN	Q	96	145.384	81.716	-47.146	1.00198.94		QS17
ATOM	49497	OE1	GLN	Q	96	144.566	82.620	-47.317	1.00198.94		QS17
ATOM	49498	NE2	GLN	Q	96	146.689	81.892	-47.311	1.00198.94		QS17
ATOM	49499	C	GLN	Q	96	146.383	81.047	-44.441	1.00171.18		QS17
ATOM	49500	O	GLN	Q	96	147.144	80.369	-45.133	1.00171.18		QS17
ATOM	49501	N	SER	Q	97	146.742	82.202	-43.899	1.00	99.58	QS17
ATOM	49502	CA	SER	Q	97	148.055	82.763	-44.124	1.00	99.58	QS17
ATOM	49503	CB	SER	Q	97	147.901	84.120	-44.778	1.00115.02		QS17
ATOM	49504	OG	SER	Q	97	147.385	85.063	-43.857	1.00115.02		QS17
ATOM	49505	C	SER	Q	97	148.892	82.899	-42.855	1.00	99.58	QS17
ATOM	49506	O	SER	Q	97	149.658	81.995	-42.518	1.00	99.58	QS17
ATOM	49507	N	LEU	Q	98	148.746	84.035	-42.169	1.00	61.40	QS17
ATOM	49508	CA	LEU	Q	98	149.483	84.340	-40.933	1.00	61.40	QS17
ATOM	49509	CB	LEU	Q	98	148.730	85.454	-40.173	1.00	56.99	QS17
ATOM	49510	CG	LEU	Q	98	147.208	85.382	-39.922	1.00	56.99	QS17
ATOM	49511	CD1	LEU	Q	98	146.898	84.524	-38.707	1.00	56.99	QS17
ATOM	49512	CD2	LEU	Q	98	146.656	86.787	-39.673	1.00	56.99	QS17
ATOM	49513	C	LEU	Q	98	149.805	83.153	-39.981	1.00	61.40	QS17
ATOM	49514	O	LEU	Q	98	149.229	83.051	-38.906	1.00	61.40	QS17
ATOM	49515	N	SER	Q	99	150.755	82.290	-40.363	1.00	85.47	QS17
ATOM	49516	CA	SER	Q	99	151.116	81.120	-39.548	1.00	85.47	QS17
ATOM	49517	CB	SER	Q	99	150.089	80.019	-39.793	1.00	98.14	QS17
ATOM	49518	OG	SER	Q	99	149.938	79.798	-41.183	1.00	98.14	QS17
ATOM	49519	C	SER	Q	99	152.540	80.546	-39.762	1.00	85.47	QS17
ATOM	49520	O	SER	Q	99	153.298	80.335	-38.795	1.00	85.47	QS17
ATOM	49521	N	LYS	Q	100	152.873	80.256	-41.022	1.00198.94		QS17
ATOM	49522	CA	LYS	Q	100	154.190	79.736	-41.421	1.00198.94		QS17
ATOM	49523	CB	LYS	Q	100	154.168	78.215	-41.641	1.00	81.28	QS17
ATOM	49524	CG	LYS	Q	100	154.507	77.378	-40.407	1.00	81.28	QS17
ATOM	49525	CD	LYS	Q	100	154.636	75.883	-40.766	1.00	81.28	QS17
ATOM	49526	CE	LYS	Q	100	154.594	74.938	-39.530	1.00	81.28	QS17
ATOM	49527	NZ	LYS	Q	100	155.762	74.966	-38.574	1.00	81.28	QS17
ATOM	49528	C	LYS	Q	100	154.607	80.408	-42.727	1.00198.94		QS17
ATOM	49529	O	LYS	Q	100	155.778	80.365	-43.114	1.00198.94		QS17
ATOM	49530	N	ARG	Q	101	153.632	81.020	-43.397	1.00198.94		QS17
ATOM	49531	CA	ARG	Q	101	153.851	81.718	-44.664	1.00198.94		QS17
ATOM	49532	CB	ARG	Q	101	152.967	81.113	-45.761	1.00198.04		QS17
ATOM	49533	CG	ARG	Q	101	153.442	79.767	-46.291	1.00198.04		QS17
ATOM	49534	CD	ARG	Q	101	154.712	79.904	-47.134	1.00198.04		QS17
ATOM	49535	NE	ARG	Q	101	155.868	80.342	-46.352	1.00198.04		QS17
ATOM	49536	CZ	ARG	Q	101	157.085	80.533	-46.855	1.00198.04		QS17
ATOM	49537	NH1	ARG	Q	101	157.314	80.327	-48.145	1.00198.04		QS17
ATOM	49538	NH2	ARG	Q	101	158.074	80.930	-46.065	1.00198.04		QS17
ATOM	49539	C	ARG	Q	101	153.563	83.217	-44.549	1.00198.94		QS17
ATOM	49540	O	ARG	Q	101	154.444	84.002	-44.189	1.00198.94		QS17
ATOM	49541	N	GLY	Q	102	152.329	83.608	-44.863	1.00198.94		QS17
ATOM	49542	CA	GLY	Q	102	151.961	85.011	-44.783	1.00198.94		QS17
ATOM	49543	C	GLY	Q	102	150.644	85.383	-45.443	1.00198.94		QS17
ATOM	49544	O	GLY	Q	102	150.278	84.821	-46.476	1.00198.94		QS17
ATOM	49545	N	GLY	Q	103	149.937	86.346	-44.849	1.00198.94		QS17
ATOM	49546	CA	GLY	Q	103	148.657	86.784	-45.386	1.00198.94		QS17
ATOM	49547	C	GLY	Q	103	148.621	88.069	-46.186	1.00198.94		QS17
ATOM	49548	O	GLY	Q	103	148.736	89.151	-45.626	1.00198.94		QS17
ATOM	49549	N	LYS	Q	104	148.425	87.931	-47.495	1.00198.94		QS17
ATOM	49550	CA	LYS	Q	104	148.363	89.041	-48.448	1.00198.94		QS17
ATOM	49551	CB	LYS	Q	104	147.356	88.688	-49.547	1.00176.17		QS17
ATOM	49552	CG	LYS	Q	104	147.694	87.388	-50.257	1.00176.17		QS17
ATOM	49553	CD	LYS	Q	104	149.075	87.467	-50.901	1.00176.17		QS17
ATOM	49554	CE	LYS	Q	104	149.910	86.222	-50.616	1.00176.17		QS17
ATOM	49555	NZ	LYS	Q	104	150.278	86.095	-49.176	1.00176.17		QS17
ATOM	49556	C	LYS	Q	104	148.070	90.447	-47.906	1.00198.94		QS17
ATOM	49557	O	LYS	Q	104	148.737	90.929	-46.995	1.00198.94		QS17
ATOM	49558	N	ALA	Q	105	147.085	91.115	-48.495	1.00198.94		QS17
ATOM	49559	CA	ALA	Q	105	146.721	92.464	-48.074	1.00198.94		QS17
ATOM	49560	CB	ALA	Q	105	147.954	93.374	-48.075	1.00131.16		QS17
ATOM	49561	C	ALA	Q	105	145.651	93.038	-48.995	1.00198.94		QS17
ATOM	49562	O	ALA	Q	105	145.920	94.084	-49.628	1.00198.94		QS17
ATOM	49563	OXT	ALA	Q	105	144.557	92.436	-49.066	1.00174.72		QS17
TER	49563		ALA	Q	105						QS17



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ATOM	49564	CB	PRO	R	16	188.561	141.209	-53.747	1.00186.63	RS18
ATOM	49565	CG	PRO	R	16	189.961	141.056	-54.332	1.00186.63	RS18
ATOM	49566	C	PRO	R	16	187.377	139.120	-54.492	1.00198.94	RS18
ATOM	49567	O	PRO	R	16	186.189	138.860	-54.296	1.00198.94	RS18
ATOM	49568	N	PRO	R	16	189.505	139.061	-53.175	1.00198.94	RS18
ATOM	49569	CD	PRO	R	16	190.627	139.972	-53.463	1.00186.63	RS18
ATOM	49570	CA	PRO	R	16	188.220	139.766	-53.392	1.00198.94	RS18
ATOM	49571	N	SER	R	17	188.005	138.869	-55.640	1.00198.94	RS18
ATOM	49572	CA	SER	R	17	187.346	138.258	-56.795	1.00198.94	RS18
ATOM	49573	CB	SER	R	17	186.408	137.128	-56.349	1.00166.07	RS18
ATOM	49574	OG	SER	R	17	185.704	136.579	-57.450	1.00166.07	RS18
ATOM	49575	C	SER	R	17	186.563	139.279	-57.616	1.00198.94	RS18
ATOM	49576	O	SER	R	17	185.946	138.932	-58.626	1.00198.94	RS18
ATOM	49577	N	ARG	R	18	186.593	140.536	-57.182	1.00198.94	RS18
ATOM	49578	CA	ARG	R	18	185.883	141.602	-57.882	1.00198.94	RS18
ATOM	49579	CB	ARG	R	18	185.493	142.720	-56.906	1.00173.35	RS18
ATOM	49580	CG	ARG	R	18	184.613	142.265	-55.743	1.00173.35	RS18
ATOM	49581	CD	ARG	R	18	183.254	141.739	-56.204	1.00173.35	RS18
ATOM	49582	NE	ARG	R	18	182.513	141.123	-55.102	1.00173.35	RS18
ATOM	49583	CZ	ARG	R	18	181.278	140.637	-55.200	1.00173.35	RS18
ATOM	49584	NH1	ARG	R	18	180.627	140.691	-56.354	1.00173.35	RS18
ATOM	49585	NH2	ARG	R	18	180.695	140.091	-54.141	1.00173.35	RS18
ATOM	49586	C	ARG	R	18	186.747	142.170	-59.005	1.00198.94	RS18
ATOM	49587	O	ARG	R	18	187.642	142.983	-58.771	1.00198.94	RS18
ATOM	49588	N	LYS	R	19	186.467	141.724	-60.225	1.00145.13	RS18
ATOM	49589	CA	LYS	R	19	187.193	142.161	-61.412	1.00145.13	RS18
ATOM	49590	CB	LYS	R	19	188.238	141.116	-61.803	1.00130.49	RS18
ATOM	49591	CG	LYS	R	19	188.873	140.392	-60.625	1.00130.49	RS18
ATOM	49592	CD	LYS	R	19	189.624	139.154	-61.096	1.00130.49	RS18
ATOM	49593	CE	LYS	R	19	190.107	138.312	-59.927	1.00130.49	RS18
ATOM	49594	NZ	LYS	R	19	190.767	137.058	-60.395	1.00130.49	RS18
ATOM	49595	C	LYS	R	19	186.161	142.275	-62.527	1.00145.13	RS18
ATOM	49596	O	LYS	R	19	186.502	142.221	-63.709	1.00145.13	RS18
ATOM	49597	N	ALA	R	20	184.900	142.420	-62.117	1.00111.71	RS18
ATOM	49598	CA	ALA	R	20	183.737	142.526	-63.002	1.00111.71	RS18
ATOM	49599	CB	ALA	R	20	184.125	143.088	-64.376	1.00 94.57	RS18
ATOM	49600	C	ALA	R	20	183.110	141.153	-63.167	1.00111.71	RS18
ATOM	49601	O	ALA	R	20	183.808	140.140	-63.207	1.00111.71	RS18
ATOM	49602	N	LYS	R	21	181.787	141.122	-63.249	1.00111.09	RS18
ATOM	49603	CA	LYS	R	21	181.080	139.862	-63.422	1.00111.09	RS18
ATOM	49604	CB	LYS	R	21	179.678	139.945	-62.803	1.00102.09	RS18
ATOM	49605	CG	LYS	R	21	179.523	139.157	-61.503	1.00102.09	RS18
ATOM	49606	CD	LYS	R	21	180.597	139.522	-60.492	1.00102.09	RS18
ATOM	49607	CE	LYS	R	21	180.483	138.682	-59.236	1.00102.09	RS18
ATOM	49608	NZ	LYS	R	21	181.578	139.011	-58.285	1.00102.09	RS18
ATOM	49609	C	LYS	R	21	180.993	139.536	-64.907	1.00111.09	RS18
ATOM	49610	O	LYS	R	21	180.571	140.364	-65.717	1.00111.09	RS18
ATOM	49611	N	VAL	R	22	181.402	138.324	-65.258	1.00 64.23	RS18
ATOM	49612	CA	VAL	R	22	181.393	137.885	-66.642	1.00 64.23	RS18
ATOM	49613	CB	VAL	R	22	181.816	136.408	-66.729	1.00 69.62	RS18
ATOM	49614	CG1	VAL	R	22	181.917	135.964	-68.179	1.00 69.62	RS18
ATOM	49615	CG2	VAL	R	22	183.148	136.228	-66.033	1.00 69.62	RS18
ATOM	49616	C	VAL	R	22	180.013	138.078	-67.260	1.00 64.23	RS18
ATOM	49617	O	VAL	R	22	179.838	137.979	-68.473	1.00 64.23	RS18
ATOM	49618	N	LYS	R	23	179.037	138.369	-66.412	1.00 91.30	RS18
ATOM	49619	CA	LYS	R	23	177.664	138.583	-66.846	1.00 91.30	RS18
ATOM	49620	CB	LYS	R	23	176.721	138.217	-65.697	1.00 94.73	RS18
ATOM	49621	CG	LYS	R	23	175.239	138.214	-66.005	1.00 94.73	RS18
ATOM	49622	CD	LYS	R	23	174.503	137.681	-64.792	1.00 94.73	RS18
ATOM	49623	CE	LYS	R	23	173.029	137.493	-65.041	1.00 94.73	RS18
ATOM	49624	NZ	LYS	R	23	172.408	136.783	-63.889	1.00 94.73	RS18
ATOM	49625	C	LYS	R	23	177.496	140.051	-67.232	1.00 91.30	RS18
ATOM	49626	O	LYS	R	23	176.890	140.371	-68.256	1.00 91.30	RS18
ATOM	49627	N	ALA	R	24	178.045	140.935	-66.402	1.00135.73	RS18
ATOM	49628	CA	ALA	R	24	177.975	142.373	-66.637	1.00135.73	RS18
ATOM	49629	CB	ALA	R	24	178.750	143.116	-65.559	1.00141.87	RS18
ATOM	49630	C	ALA	R	24	178.552	142.691	-68.005	1.00135.73	RS18
ATOM	49631	O	ALA	R	24	177.887	143.301	-68.841	1.00135.73	RS18
ATOM	49632	N	THR	R	25	179.796	142.277	-68.224	1.00 95.34	RS18
ATOM	49633	CA	THR	R	25	180.463	142.498	-69.500	1.00 95.34	RS18
ATOM	49634	CB	THR	R	25	181.977	142.249	-69.387	1.00128.26	RS18
ATOM	49635	OG1	THR	R	25	182.520	143.092	-68.365	1.00128.26	RS18
ATOM	49636	CG2	THR	R	25	182.671	142.557	-70.709	1.00128.26	RS18
ATOM	49637	C	THR	R	25	179.878	141.517	-70.507	1.00 95.34	RS18
ATOM	49638	O	THR	R	25	180.525	140.535	-70.879	1.00 95.34	RS18
ATOM	49639	N	LEU	R	26	178.648	141.785	-70.942	1.00101.76	RS18
ATOM	49640	CA	LEU	R	26	177.971	140.905	-71.887	1.00101.76	RS18



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ATOM	49641	CB	LEU	R	26	177.825	139.519	-71.251	1.00	99.89	RS18
ATOM	49642	CG	LEU	R	26	177.888	138.255	-72.107	1.00	99.89	RS18
ATOM	49643	CD1	LEU	R	26	179.069	138.308	-73.054	1.00	99.89	RS18
ATOM	49644	CD2	LEU	R	26	178.017	137.056	-71.185	1.00	99.89	RS18
ATOM	49645	C	LEU	R	26	176.596	141.461	-72.275	1.00	101.76	RS18
ATOM	49646	O	LEU	R	26	176.184	142.518	-71.799	1.00	101.76	RS18
ATOM	49647	N	GLY	R	27	175.891	140.744	-73.145	1.00	100.77	RS18
ATOM	49648	CA	GLY	R	27	174.580	141.193	-73.572	1.00	100.77	RS18
ATOM	49649	C	GLY	R	27	173.508	140.126	-73.442	1.00	100.77	RS18
ATOM	49650	O	GLY	R	27	173.596	139.250	-72.582	1.00	100.77	RS18
ATOM	49651	N	GLU	R	28	172.489	140.204	-74.292	1.00	128.93	RS18
ATOM	49652	CA	GLU	R	28	171.401	139.234	-74.272	1.00	128.93	RS18
ATOM	49653	CB	GLU	R	28	170.187	139.759	-75.034	1.00	187.81	RS18
ATOM	49654	CG	GLU	R	28	169.618	141.059	-74.535	1.00	187.81	RS18
ATOM	49655	CD	GLU	R	28	168.185	141.236	-74.982	1.00	187.81	RS18
ATOM	49656	OE1	GLU	R	28	167.936	141.158	-76.203	1.00	187.81	RS18
ATOM	49657	OE2	GLU	R	28	167.307	141.444	-74.118	1.00	187.81	RS18
ATOM	49658	C	GLU	R	28	171.853	137.951	-74.945	1.00	128.93	RS18
ATOM	49659	O	GLU	R	28	171.915	137.892	-76.174	1.00	128.93	RS18
ATOM	49660	N	PHE	R	29	172.162	136.924	-74.158	1.00	83.03	RS18
ATOM	49661	CA	PHE	R	29	172.596	135.661	-74.743	1.00	83.03	RS18
ATOM	49662	CB	PHE	R	29	174.091	135.446	-74.518	1.00	79.84	RS18
ATOM	49663	CG	PHE	R	29	174.490	135.428	-73.083	1.00	79.84	RS18
ATOM	49664	CD1	PHE	R	29	175.039	134.283	-72.520	1.00	79.84	RS18
ATOM	49665	CD2	PHE	R	29	174.364	136.569	-72.301	1.00	79.84	RS18
ATOM	49666	CE1	PHE	R	29	175.466	134.276	-71.196	1.00	79.84	RS18
ATOM	49667	CE2	PHE	R	29	174.784	136.577	-70.976	1.00	79.84	RS18
ATOM	49668	CZ	PHE	R	29	175.339	135.425	-70.421	1.00	79.84	RS18
ATOM	49669	C	PHE	R	29	171.831	134.446	-74.256	1.00	83.03	RS18
ATOM	49670	O	PHE	R	29	171.586	134.275	-73.063	1.00	83.03	RS18
ATOM	49671	N	ASP	R	30	171.457	133.606	-75.213	1.00	86.28	RS18
ATOM	49672	CA	ASP	R	30	170.721	132.386	-74.938	1.00	86.28	RS18
ATOM	49673	CB	ASP	R	30	170.168	131.821	-76.252	1.00	99.05	RS18
ATOM	49674	CG	ASP	R	30	169.290	130.605	-76.044	1.00	99.05	RS18
ATOM	49675	OD1	ASP	R	30	168.619	130.538	-74.998	1.00	99.05	RS18
ATOM	49676	OD2	ASP	R	30	169.255	129.725	-76.933	1.00	99.05	RS18
ATOM	49677	C	ASP	R	30	171.658	131.387	-74.271	1.00	86.28	RS18
ATOM	49678	O	ASP	R	30	172.516	130.790	-74.926	1.00	86.28	RS18
ATOM	49679	N	LEU	R	31	171.497	131.225	-72.960	1.00	63.14	RS18
ATOM	49680	CA	LEU	R	31	172.325	130.301	-72.194	1.00	63.14	RS18
ATOM	49681	CB	LEU	R	31	172.001	130.396	-70.706	1.00	55.22	RS18
ATOM	49682	CG	LEU	R	31	172.551	131.619	-69.987	1.00	55.22	RS18
ATOM	49683	CD1	LEU	R	31	172.264	131.527	-68.496	1.00	55.22	RS18
ATOM	49684	CD2	LEU	R	31	174.040	131.683	-70.224	1.00	55.22	RS18
ATOM	49685	C	LEU	R	31	172.134	128.866	-72.644	1.00	63.14	RS18
ATOM	49686	O	LEU	R	31	172.882	127.975	-72.248	1.00	63.14	RS18
ATOM	49687	N	ARG	R	32	171.129	128.650	-73.476	1.00	67.47	RS18
ATOM	49688	CA	ARG	R	32	170.814	127.321	-73.971	1.00	67.47	RS18
ATOM	49689	CB	ARG	R	32	169.301	127.236	-74.157	1.00	93.34	RS18
ATOM	49690	CG	ARG	R	32	168.725	125.848	-74.140	1.00	93.34	RS18
ATOM	49691	CD	ARG	R	32	167.355	125.864	-73.471	1.00	93.34	RS18
ATOM	49692	NE	ARG	R	32	167.459	125.686	-72.024	1.00	93.34	RS18
ATOM	49693	CZ	ARG	R	32	166.496	125.983	-71.157	1.00	93.34	RS18
ATOM	49694	NH1	ARG	R	32	165.346	126.487	-71.587	1.00	93.34	RS18
ATOM	49695	NH2	ARG	R	32	166.680	125.765	-69.859	1.00	93.34	RS18
ATOM	49696	C	ARG	R	32	171.555	127.041	-75.288	1.00	67.47	RS18
ATOM	49697	O	ARG	R	32	171.529	125.918	-75.804	1.00	67.47	RS18
ATOM	49698	N	ASP	R	33	172.228	128.067	-75.811	1.00	80.72	RS18
ATOM	49699	CA	ASP	R	33	172.968	127.963	-77.069	1.00	80.72	RS18
ATOM	49700	CB	ASP	R	33	173.142	129.343	-77.696	1.00	135.00	RS18
ATOM	49701	CG	ASP	R	33	173.980	129.300	-78.952	1.00	135.00	RS18
ATOM	49702	OD1	ASP	R	33	173.963	128.251	-79.634	1.00	135.00	RS18
ATOM	49703	OD2	ASP	R	33	174.642	130.311	-79.263	1.00	135.00	RS18
ATOM	49704	C	ASP	R	33	174.331	127.303	-76.917	1.00	80.72	RS18
ATOM	49705	O	ASP	R	33	175.349	127.966	-76.674	1.00	80.72	RS18
ATOM	49706	N	TYR	R	34	174.341	125.987	-77.091	1.00	67.67	RS18
ATOM	49707	CA	TYR	R	34	175.554	125.211	-76.947	1.00	67.67	RS18
ATOM	49708	CB	TYR	R	34	175.211	123.732	-76.823	1.00	79.95	RS18
ATOM	49709	CG	TYR	R	34	174.430	123.190	-77.992	1.00	79.95	RS18
ATOM	49710	CD1	TYR	R	34	174.936	123.254	-79.287	1.00	79.95	RS18
ATOM	49711	CE1	TYR	R	34	174.224	122.737	-80.371	1.00	79.95	RS18
ATOM	49712	CD2	TYR	R	34	173.187	122.593	-77.803	1.00	79.95	RS18
ATOM	49713	CE2	TYR	R	34	172.463	122.068	-78.876	1.00	79.95	RS18
ATOM	49714	CZ	TYR	R	34	172.985	122.143	-80.158	1.00	79.95	RS18
ATOM	49715	OH	TYR	R	34	172.268	121.623	-81.218	1.00	79.95	RS18
ATOM	49716	C	TYR	R	34	176.511	125.400	-78.095	1.00	67.67	RS18
ATOM	49717	O	TYR	R	34	177.316	124.520	-78.360	1.00	67.67	RS18



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ATOM	49718	N	ARG	R	35	176.434	126.532	-78.784	1.00	86.39	RS18
ATOM	49719	CA	ARG	R	35	177.335	126.755	-79.908	1.00	86.39	RS18
ATOM	49720	CB	ARG	R	35	176.634	126.426	-81.226	1.00	84.65	RS18
ATOM	49721	CG	ARG	R	35	176.387	124.951	-81.446	1.00	84.65	RS18
ATOM	49722	CD	ARG	R	35	175.915	124.680	-82.867	1.00	84.65	RS18
ATOM	49723	NE	ARG	R	35	174.675	125.388	-83.187	1.00	84.65	RS18
ATOM	49724	CZ	ARG	R	35	174.224	125.610	-84.421	1.00	84.65	RS18
ATOM	49725	NH1	ARG	R	35	174.908	125.185	-85.479	1.00	84.65	RS18
ATOM	49726	NH2	ARG	R	35	173.079	126.258	-84.594	1.00	84.65	RS18
ATOM	49727	C	ARG	R	35	177.945	128.143	-80.005	1.00	86.39	RS18
ATOM	49728	O	ARG	R	35	178.790	128.380	-80.868	1.00	86.39	RS18
ATOM	49729	N	ASN	R	36	177.532	129.059	-79.134	1.00	57.45	RS18
ATOM	49730	CA	ASN	R	36	178.078	130.420	-79.162	1.00	57.45	RS18
ATOM	49731	CB	ASN	R	36	177.147	131.398	-78.443	1.00	100.74	RS18
ATOM	49732	CG	ASN	R	36	177.654	132.824	-78.494	1.00	100.74	RS18
ATOM	49733	OD1	ASN	R	36	176.994	133.750	-78.024	1.00	100.74	RS18
ATOM	49734	ND2	ASN	R	36	178.835	133.007	-79.063	1.00	100.74	RS18
ATOM	49735	C	ASN	R	36	179.449	130.441	-78.501	1.00	57.45	RS18
ATOM	49736	O	ASN	R	36	179.647	131.070	-77.461	1.00	57.45	RS18
ATOM	49737	N	VAL	R	37	180.386	129.736	-79.122	1.00	60.59	RS18
ATOM	49738	CA	VAL	R	37	181.745	129.636	-78.625	1.00	60.59	RS18
ATOM	49739	CB	VAL	R	37	182.704	129.108	-79.710	1.00	94.39	RS18
ATOM	49740	CG1	VAL	R	37	183.781	128.238	-79.076	1.00	94.39	RS18
ATOM	49741	CG2	VAL	R	37	181.926	128.342	-80.770	1.00	94.39	RS18
ATOM	49742	C	VAL	R	37	182.203	131.020	-78.235	1.00	60.59	RS18
ATOM	49743	O	VAL	R	37	182.888	131.203	-77.233	1.00	60.59	RS18
ATOM	49744	N	GLU	R	38	181.801	131.999	-79.035	1.00	71.00	RS18
ATOM	49745	CA	GLU	R	38	182.181	133.384	-78.805	1.00	71.00	RS18
ATOM	49746	CB	GLU	R	38	181.405	134.302	-79.757	1.00	198.94	RS18
ATOM	49747	CG	GLU	R	38	180.755	133.596	-80.954	1.00	198.94	RS18
ATOM	49748	CD	GLU	R	38	181.751	132.974	-81.916	1.00	198.94	RS18
ATOM	49749	OE1	GLU	R	38	182.577	132.145	-81.478	1.00	198.94	RS18
ATOM	49750	OE2	GLU	R	38	181.700	133.310	-83.118	1.00	198.94	RS18
ATOM	49751	C	GLU	R	38	181.918	133.788	-77.357	1.00	71.00	RS18
ATOM	49752	O	GLU	R	38	182.817	134.257	-76.660	1.00	71.00	RS18
ATOM	49753	N	VAL	R	39	180.687	133.577	-76.904	1.00	75.38	RS18
ATOM	49754	CA	VAL	R	39	180.305	133.945	-75.549	1.00	75.38	RS18
ATOM	49755	CB	VAL	R	39	178.805	134.256	-75.484	1.00	69.35	RS18
ATOM	49756	CG1	VAL	R	39	178.011	132.972	-75.458	1.00	69.35	RS18
ATOM	49757	CG2	VAL	R	39	178.510	135.099	-74.273	1.00	69.35	RS18
ATOM	49758	C	VAL	R	39	180.651	132.911	-74.467	1.00	75.38	RS18
ATOM	49759	O	VAL	R	39	181.120	133.277	-73.394	1.00	75.38	RS18
ATOM	49760	N	LEU	R	40	180.420	131.629	-74.728	1.00	50.24	RS18
ATOM	49761	CA	LEU	R	40	180.742	130.616	-73.728	1.00	50.24	RS18
ATOM	49762	CB	LEU	R	40	180.467	129.220	-74.286	1.00	51.70	RS18
ATOM	49763	CG	LEU	R	40	179.079	128.979	-74.875	1.00	51.70	RS18
ATOM	49764	CD1	LEU	R	40	178.691	127.527	-74.678	1.00	51.70	RS18
ATOM	49765	CD2	LEU	R	40	178.073	129.866	-74.199	1.00	51.70	RS18
ATOM	49766	C	LEU	R	40	182.218	130.736	-73.310	1.00	50.24	RS18
ATOM	49767	O	LEU	R	40	182.575	130.642	-72.124	1.00	50.24	RS18
ATOM	49768	N	LYS	R	41	183.066	130.939	-74.311	1.00	79.62	RS18
ATOM	49769	CA	LYS	R	41	184.503	131.110	-74.128	1.00	79.62	RS18
ATOM	49770	CB	LYS	R	41	185.077	131.669	-75.431	1.00	148.55	RS18
ATOM	49771	CG	LYS	R	41	186.536	132.080	-75.428	1.00	148.55	RS18
ATOM	49772	CD	LYS	R	41	186.757	133.247	-76.419	1.00	148.55	RS18
ATOM	49773	CE	LYS	R	41	186.151	132.982	-77.814	1.00	148.55	RS18
ATOM	49774	NZ	LYS	R	41	186.221	134.157	-78.750	1.00	148.55	RS18
ATOM	49775	C	LYS	R	41	184.752	132.086	-72.976	1.00	79.62	RS18
ATOM	49776	O	LYS	R	41	185.811	132.072	-72.349	1.00	79.62	RS18
ATOM	49777	N	ARG	R	42	183.751	132.922	-72.705	1.00	66.67	RS18
ATOM	49778	CA	ARG	R	42	183.816	133.943	-71.659	1.00	66.67	RS18
ATOM	49779	CB	ARG	R	42	182.728	134.997	-71.908	1.00	133.98	RS18
ATOM	49780	CG	ARG	R	42	182.652	135.508	-73.342	1.00	133.98	RS18
ATOM	49781	CD	ARG	R	42	183.698	136.560	-73.655	1.00	133.98	RS18
ATOM	49782	NE	ARG	R	42	183.295	137.890	-73.205	1.00	133.98	RS18
ATOM	49783	CZ	ARG	R	42	183.316	138.301	-71.941	1.00	133.98	RS18
ATOM	49784	NH1	ARG	R	42	183.728	137.488	-70.979	1.00	133.98	RS18
ATOM	49785	NH2	ARG	R	42	182.924	139.531	-71.638	1.00	133.98	RS18
ATOM	49786	C	ARG	R	42	183.668	133.414	-70.229	1.00	66.67	RS18
ATOM	49787	O	ARG	R	42	184.101	134.060	-69.271	1.00	66.67	RS18
ATOM	49788	N	PHE	R	43	183.059	132.243	-70.087	1.00	65.94	RS18
ATOM	49789	CA	PHE	R	43	182.840	131.679	-68.771	1.00	65.94	RS18
ATOM	49790	CB	PHE	R	43	181.422	131.135	-68.679	1.00	55.33	RS18
ATOM	49791	CG	PHE	R	43	180.373	132.191	-68.831	1.00	55.33	RS18
ATOM	49792	CD1	PHE	R	43	179.662	132.319	-70.013	1.00	55.33	RS18
ATOM	49793	CD2	PHE	R	43	180.105	133.074	-67.789	1.00	55.33	RS18
ATOM	49794	CE1	PHE	R	43	178.691	133.318	-70.155	1.00	55.33	RS18



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ATOM	49795	CE2	PHE	R	43	179.142	134.072	-67.921	1.00	55.33	RS18
ATOM	49796	CZ	PHE	R	43	178.434	134.193	-69.106	1.00	55.33	RS18
ATOM	49797	C	PHE	R	43	183.826	130.618	-68.342	1.00	65.94	RS18
ATOM	49798	O	PHE	R	43	183.710	130.083	-67.242	1.00	65.94	RS18
ATOM	49799	N	LEU	R	44	184.788	130.299	-69.201	1.00	55.87	RS18
ATOM	49800	CA	LEU	R	44	185.803	129.309	-68.851	1.00	55.87	RS18
ATOM	49801	CB	LEU	R	44	186.240	128.533	-70.084	1.00	77.15	RS18
ATOM	49802	CG	LEU	R	44	185.180	127.572	-70.610	1.00	77.15	RS18
ATOM	49803	CD1	LEU	R	44	185.637	126.924	-71.915	1.00	77.15	RS18
ATOM	49804	CD2	LEU	R	44	184.911	126.522	-69.541	1.00	77.15	RS18
ATOM	49805	C	LEU	R	44	186.991	130.057	-68.270	1.00	55.87	RS18
ATOM	49806	O	LEU	R	44	187.260	131.191	-68.666	1.00	55.87	RS18
ATOM	49807	N	SER	R	45	187.701	129.444	-67.329	1.00	76.17	RS18
ATOM	49808	CA	SER	R	45	188.846	130.119	-66.730	1.00	76.17	RS18
ATOM	49809	CB	SER	R	45	189.215	129.469	-65.395	1.00	70.95	RS18
ATOM	49810	OG	SER	R	45	189.717	128.155	-65.576	1.00	70.95	RS18
ATOM	49811	C	SER	R	45	190.046	130.076	-67.667	1.00	76.17	RS18
ATOM	49812	O	SER	R	45	189.905	129.824	-68.866	1.00	76.17	RS18
ATOM	49813	N	GLU	R	46	191.229	130.333	-67.116	1.00	97.54	RS18
ATOM	49814	CA	GLU	R	46	192.476	130.304	-67.880	1.00	97.54	RS18
ATOM	49815	CB	GLU	R	46	193.585	131.007	-67.088	1.00	198.94	RS18
ATOM	49816	CG	GLU	R	46	193.278	132.474	-66.751	1.00	198.94	RS18
ATOM	49817	CD	GLU	R	46	192.001	132.653	-65.925	1.00	198.94	RS18
ATOM	49818	OE1	GLU	R	46	191.946	132.151	-64.782	1.00	198.94	RS18
ATOM	49819	OE2	GLU	R	46	191.047	133.295	-66.420	1.00	198.94	RS18
ATOM	49820	C	GLU	R	46	192.805	128.825	-68.088	1.00	97.54	RS18
ATOM	49821	O	GLU	R	46	193.945	128.433	-68.324	1.00	97.54	RS18
ATOM	49822	N	THR	R	47	191.757	128.022	-67.972	1.00	77.48	RS18
ATOM	49823	CA	THR	R	47	191.784	126.578	-68.131	1.00	77.48	RS18
ATOM	49824	CB	THR	R	47	192.058	125.863	-66.778	1.00	49.49	RS18
ATOM	49825	OG1	THR	R	47	193.329	126.291	-66.249	1.00	49.49	RS18
ATOM	49826	CG2	THR	R	47	192.040	124.337	-66.965	1.00	49.49	RS18
ATOM	49827	C	THR	R	47	190.360	126.262	-68.608	1.00	77.48	RS18
ATOM	49828	O	THR	R	47	189.471	127.110	-68.525	1.00	77.48	RS18
ATOM	49829	N	GLY	R	48	190.131	125.061	-69.113	1.00	93.08	RS18
ATOM	49830	CA	GLY	R	48	188.796	124.743	-69.579	1.00	93.08	RS18
ATOM	49831	C	GLY	R	48	187.834	124.554	-68.426	1.00	93.08	RS18
ATOM	49832	O	GLY	R	48	186.961	123.689	-68.491	1.00	93.08	RS18
ATOM	49833	N	LYS	R	49	187.989	125.355	-67.371	1.00	47.93	RS18
ATOM	49834	CA	LYS	R	49	187.128	125.244	-66.197	1.00	47.93	RS18
ATOM	49835	CB	LYS	R	49	187.945	125.391	-64.920	1.00	69.09	RS18
ATOM	49836	CG	LYS	R	49	188.816	124.203	-64.645	1.00	69.09	RS18
ATOM	49837	CD	LYS	R	49	189.872	124.527	-63.629	1.00	69.09	RS18
ATOM	49838	CE	LYS	R	49	190.918	123.438	-63.604	1.00	69.09	RS18
ATOM	49839	NZ	LYS	R	49	192.105	123.873	-62.829	1.00	69.09	RS18
ATOM	49840	C	LYS	R	49	185.999	126.245	-66.174	1.00	47.93	RS18
ATOM	49841	O	LYS	R	49	186.168	127.408	-66.561	1.00	47.93	RS18
ATOM	49842	N	ILE	R	50	184.844	125.769	-65.720	1.00	73.46	RS18
ATOM	49843	CA	ILE	R	50	183.649	126.586	-65.606	1.00	73.46	RS18
ATOM	49844	CB	ILE	R	50	182.419	125.732	-65.374	1.00	56.49	RS18
ATOM	49845	CG2	ILE	R	50	181.193	126.615	-65.283	1.00	56.49	RS18
ATOM	49846	CG1	ILE	R	50	182.272	124.722	-66.496	1.00	56.49	RS18
ATOM	49847	CD1	ILE	R	50	181.149	123.773	-66.241	1.00	56.49	RS18
ATOM	49848	C	ILE	R	50	183.795	127.510	-64.408	1.00	73.46	RS18
ATOM	49849	O	ILE	R	50	183.873	127.062	-63.256	1.00	73.46	RS18
ATOM	49850	N	LEU	R	51	183.820	128.805	-64.679	1.00	59.29	RS18
ATOM	49851	CA	LEU	R	51	183.968	129.778	-63.619	1.00	59.29	RS18
ATOM	49852	CB	LEU	R	51	183.985	131.177	-64.226	1.00	59.02	RS18
ATOM	49853	CG	LEU	R	51	185.313	131.492	-64.926	1.00	59.02	RS18
ATOM	49854	CD1	LEU	R	51	185.123	132.536	-66.020	1.00	59.02	RS18
ATOM	49855	CD2	LEU	R	51	186.318	131.956	-63.875	1.00	59.02	RS18
ATOM	49856	C	LEU	R	51	182.870	129.653	-62.570	1.00	59.29	RS18
ATOM	49857	O	LEU	R	51	181.744	129.266	-62.880	1.00	59.29	RS18
ATOM	49858	N	PRO	R	52	183.203	129.941	-61.303	1.00	51.80	RS18
ATOM	49859	CA	PRO	R	52	184.573	130.118	-60.809	1.00	70.40	RS18
ATOM	49860	CB	PRO	R	52	182.268	129.879	-60.180	1.00	51.80	RS18
ATOM	49861	CG	PRO	R	52	183.171	130.050	-58.966	1.00	70.40	RS18
ATOM	49862	CD	PRO	R	52	184.474	129.542	-59.433	1.00	70.40	RS18
ATOM	49863	C	PRO	R	52	181.303	131.040	-60.308	1.00	51.80	RS18
ATOM	49864	O	PRO	R	52	181.660	132.087	-60.853	1.00	51.80	RS18
ATOM	49865	N	ARG	R	53	180.089	130.863	-59.803	1.00	63.78	RS18
ATOM	49866	CA	ARG	R	53	179.098	131.923	-59.876	1.00	63.78	RS18
ATOM	49867	CB	ARG	R	53	177.870	131.553	-59.042	1.00	92.30	RS18
ATOM	49868	CG	ARG	R	53	177.020	130.446	-59.645	1.00	92.30	RS18
ATOM	49869	CD	ARG	R	53	175.542	130.799	-59.544	1.00	92.30	RS18
ATOM	49870	NE	ARG	R	53	175.039	130.717	-58.177	1.00	92.30	RS18
ATOM	49871	CZ	ARG	R	53	174.027	131.440	-57.715	1.00	92.30	RS18



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ATOM	49872	NH1	ARG	R	53	173.418	132.302	-58.507	1.00	92.30	RS18
ATOM	49873	NH2	ARG	R	53	173.613	131.295	-56.467	1.00	92.30	RS18
ATOM	49874	C	ARG	R	53	179.675	133.251	-59.389	1.00	63.78	RS18
ATOM	49875	O	ARG	R	53	179.350	134.320	-59.918	1.00	63.78	RS18
ATOM	49876	N	ARG	R	54	180.537	133.177	-58.382	1.00	67.77	RS18
ATOM	49877	CA	ARG	R	54	181.164	134.368	-57.821	1.00	67.77	RS18
ATOM	49878	CB	ARG	R	54	181.995	133.984	-56.594	1.00	139.49	RS18
ATOM	49879	CG	ARG	R	54	182.315	132.502	-56.506	1.00	139.49	RS18
ATOM	49880	CD	ARG	R	54	183.808	132.261	-56.537	1.00	139.49	RS18
ATOM	49881	NE	ARG	R	54	184.495	133.033	-55.508	1.00	139.49	RS18
ATOM	49882	CZ	ARG	R	54	185.775	132.879	-55.190	1.00	139.49	RS18
ATOM	49883	NH1	ARG	R	54	186.510	131.976	-55.824	1.00	139.49	RS18
ATOM	49884	NH2	ARG	R	54	186.321	133.624	-54.236	1.00	139.49	RS18
ATOM	49885	C	ARG	R	54	182.032	135.128	-58.827	1.00	67.77	RS18
ATOM	49886	O	ARG	R	54	182.669	136.122	-58.477	1.00	67.77	RS18
ATOM	49887	N	ARG	R	55	182.045	134.661	-60.073	1.00	62.33	RS18
ATOM	49888	CA	ARG	R	55	182.831	135.283	-61.137	1.00	62.33	RS18
ATOM	49889	CB	ARG	R	55	184.071	134.445	-61.429	1.00	114.42	RS18
ATOM	49890	CG	ARG	R	55	185.138	134.570	-60.373	1.00	114.42	RS18
ATOM	49891	CD	ARG	R	55	185.941	135.842	-60.538	1.00	114.42	RS18
ATOM	49892	NE	ARG	R	55	187.041	135.638	-61.473	1.00	114.42	RS18
ATOM	49893	CZ	ARG	R	55	186.892	135.458	-62.782	1.00	114.42	RS18
ATOM	49894	NH1	ARG	R	55	185.681	135.464	-63.318	1.00	114.42	RS18
ATOM	49895	NH2	ARG	R	55	187.955	135.259	-63.555	1.00	114.42	RS18
ATOM	49896	C	ARG	R	55	181.978	135.379	-62.383	1.00	62.33	RS18
ATOM	49897	O	ARG	R	55	182.015	136.381	-63.098	1.00	62.33	RS18
ATOM	49898	N	THR	R	56	181.213	134.319	-62.632	1.00	42.73	RS18
ATOM	49899	CA	THR	R	56	180.320	134.260	-63.778	1.00	42.73	RS18
ATOM	49900	CB	THR	R	56	179.712	132.861	-63.952	1.00	44.37	RS18
ATOM	49901	OG1	THR	R	56	178.607	132.693	-63.055	1.00	44.37	RS18
ATOM	49902	CG2	THR	R	56	180.752	131.807	-63.651	1.00	44.37	RS18
ATOM	49903	C	THR	R	56	179.185	135.229	-63.521	1.00	42.73	RS18
ATOM	49904	O	THR	R	56	178.555	135.721	-64.457	1.00	42.73	RS18
ATOM	49905	N	GLY	R	57	178.929	135.489	-62.238	1.00	83.24	RS18
ATOM	49906	CA	GLY	R	57	177.870	136.398	-61.838	1.00	83.24	RS18
ATOM	49907	C	GLY	R	57	176.476	135.903	-62.170	1.00	83.24	RS18
ATOM	49908	O	GLY	R	57	175.516	136.658	-62.089	1.00	83.24	RS18
ATOM	49909	N	LEU	R	58	176.358	134.636	-62.549	1.00	65.39	RS18
ATOM	49910	CA	LEU	R	58	175.064	134.064	-62.892	1.00	65.39	RS18
ATOM	49911	CB	LEU	R	58	175.249	132.842	-63.789	1.00	77.56	RS18
ATOM	49912	CG	LEU	R	58	175.680	133.158	-65.217	1.00	77.56	RS18
ATOM	49913	CD1	LEU	R	58	175.715	131.884	-66.052	1.00	77.56	RS18
ATOM	49914	CD2	LEU	R	58	174.696	134.146	-65.806	1.00	77.56	RS18
ATOM	49915	C	LEU	R	58	174.248	133.672	-61.667	1.00	65.39	RS18
ATOM	49916	O	LEU	R	58	174.661	133.900	-60.529	1.00	65.39	RS18
ATOM	49917	N	SER	R	59	173.088	133.070	-61.914	1.00	60.87	RS18
ATOM	49918	CA	SER	R	59	172.192	132.651	-60.843	1.00	60.87	RS18
ATOM	49919	CB	SER	R	59	170.793	133.217	-61.059	1.00	110.45	RS18
ATOM	49920	OG	SER	R	59	170.042	132.356	-61.898	1.00	110.45	RS18
ATOM	49921	C	SER	R	59	172.090	131.137	-60.772	1.00	60.87	RS18
ATOM	49922	O	SER	R	59	172.270	130.447	-61.773	1.00	60.87	RS18
ATOM	49923	N	GLY	R	60	171.777	130.637	-59.582	1.00	45.16	RS18
ATOM	49924	CA	GLY	R	60	171.652	129.212	-59.384	1.00	45.16	RS18
ATOM	49925	C	GLY	R	60	171.044	128.508	-60.577	1.00	45.16	RS18
ATOM	49926	O	GLY	R	60	171.549	127.480	-61.009	1.00	45.16	RS18
ATOM	49927	N	LYS	R	61	169.973	129.063	-61.131	1.00	51.06	RS18
ATOM	49928	CA	LYS	R	61	169.317	128.429	-62.272	1.00	51.06	RS18
ATOM	49929	CB	LYS	R	61	167.896	128.978	-62.434	1.00	57.35	RS18
ATOM	49930	CG	LYS	R	61	167.030	128.234	-63.446	1.00	57.35	RS18
ATOM	49931	CD	LYS	R	61	165.641	128.863	-63.542	1.00	57.35	RS18
ATOM	49932	CE	LYS	R	61	164.687	127.999	-64.358	1.00	57.35	RS18
ATOM	49933	NZ	LYS	R	61	163.292	128.525	-64.321	1.00	57.35	RS18
ATOM	49934	C	LYS	R	61	170.092	128.615	-63.573	1.00	51.06	RS18
ATOM	49935	O	LYS	R	61	170.248	127.669	-64.346	1.00	51.06	RS18
ATOM	49936	N	GLU	R	62	170.567	129.835	-63.811	1.00	76.03	RS18
ATOM	49937	CA	GLU	R	62	171.325	130.143	-65.019	1.00	76.03	RS18
ATOM	49938	CB	GLU	R	62	171.637	131.638	-65.069	1.00	73.44	RS18
ATOM	49939	CG	GLU	R	62	170.429	132.527	-64.847	1.00	73.44	RS18
ATOM	49940	CD	GLU	R	62	170.787	134.006	-64.757	1.00	73.44	RS18
ATOM	49941	OE1	GLU	R	62	171.732	134.352	-64.009	1.00	73.44	RS18
ATOM	49942	OE2	GLU	R	62	170.115	134.824	-65.426	1.00	73.44	RS18
ATOM	49943	C	GLU	R	62	172.629	129.340	-65.027	1.00	76.03	RS18
ATOM	49944	O	GLU	R	62	172.851	128.502	-65.901	1.00	76.03	RS18
ATOM	49945	N	GLN	R	63	173.487	129.610	-64.047	1.00	57.19	RS18
ATOM	49946	CA	GLN	R	63	174.768	128.920	-63.906	1.00	57.19	RS18
ATOM	49947	CB	GLN	R	63	175.363	129.224	-62.540	1.00	72.57	RS18
ATOM	49948	CG	GLN	R	63	176.572	128.395	-62.191	1.00	72.57	RS18



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ATOM	49949	CD	GLN	R	63	177.824	128.951	-62.810	1.00	72.57	RS18
ATOM	49950	OE1	GLN	R	63	177.840	130.094	-63.284	1.00	72.57	RS18
ATOM	49951	NE2	GLN	R	63	178.893	128.160	-62.797	1.00	72.57	RS18
ATOM	49952	C	GLN	R	63	174.564	127.421	-64.014	1.00	57.19	RS18
ATOM	49953	O	GLN	R	63	175.470	126.672	-64.370	1.00	57.19	RS18
ATOM	49954	N	ARG	R	64	173.355	126.996	-63.686	1.00	52.05	RS18
ATOM	49955	CA	ARG	R	64	173.006	125.592	-63.721	1.00	52.05	RS18
ATOM	49956	CB	ARG	R	64	171.688	125.370	-62.984	1.00	68.02	RS18
ATOM	49957	CG	ARG	R	64	171.380	123.909	-62.706	1.00	68.02	RS18
ATOM	49958	CD	ARG	R	64	169.986	123.751	-62.146	1.00	68.02	RS18
ATOM	49959	NE	ARG	R	64	169.733	124.674	-61.048	1.00	68.02	RS18
ATOM	49960	CZ	ARG	R	64	168.520	124.957	-60.589	1.00	68.02	RS18
ATOM	49961	NH1	ARG	R	64	167.454	124.389	-61.138	1.00	68.02	RS18
ATOM	49962	NH2	ARG	R	64	168.371	125.802	-59.582	1.00	68.02	RS18
ATOM	49963	C	ARG	R	64	172.884	125.076	-65.149	1.00	52.05	RS18
ATOM	49964	O	ARG	R	64	173.271	123.940	-65.432	1.00	52.05	RS18
ATOM	49965	N	ILE	R	65	172.325	125.900	-66.035	1.00	80.83	RS18
ATOM	49966	CA	ILE	R	65	172.162	125.520	-67.435	1.00	80.83	RS18
ATOM	49967	CB	ILE	R	65	171.061	126.337	-68.152	1.00	52.80	RS18
ATOM	49968	CG2	ILE	R	65	170.024	125.386	-68.729	1.00	52.80	RS18
ATOM	49969	CG1	ILE	R	65	170.408	127.326	-67.183	1.00	52.80	RS18
ATOM	49970	CD1	ILE	R	65	169.177	128.029	-67.735	1.00	52.80	RS18
ATOM	49971	C	ILE	R	65	173.467	125.749	-68.170	1.00	80.83	RS18
ATOM	49972	O	ILE	R	65	173.904	124.905	-68.959	1.00	80.83	RS18
ATOM	49973	N	LEU	R	66	174.086	126.897	-67.908	1.00	65.08	RS18
ATOM	49974	CA	LEU	R	66	175.349	127.218	-68.544	1.00	65.08	RS18
ATOM	49975	CB	LEU	R	66	176.105	128.280	-67.762	1.00	46.89	RS18
ATOM	49976	CG	LEU	R	66	177.464	128.546	-68.412	1.00	46.89	RS18
ATOM	49977	CD1	LEU	R	66	177.221	129.311	-69.705	1.00	46.89	RS18
ATOM	49978	CD2	LEU	R	66	178.390	129.334	-67.477	1.00	46.89	RS18
ATOM	49979	C	LEU	R	66	176.155	125.948	-68.519	1.00	65.08	RS18
ATOM	49980	O	LEU	R	66	176.565	125.434	-69.561	1.00	65.08	RS18
ATOM	49981	N	ALA	R	67	176.356	125.446	-67.304	1.00	70.74	RS18
ATOM	49982	CA	ALA	R	67	177.112	124.224	-67.071	1.00	70.74	RS18
ATOM	49983	CB	ALA	R	67	176.701	123.608	-65.750	1.00	98.37	RS18
ATOM	49984	C	ALA	R	67	176.888	123.236	-68.199	1.00	70.74	RS18
ATOM	49985	O	ALA	R	67	177.810	122.938	-68.961	1.00	70.74	RS18
ATOM	49986	N	LYS	R	68	175.661	122.737	-68.307	1.00	53.58	RS18
ATOM	49987	CA	LYS	R	68	175.321	121.785	-69.355	1.00	53.58	RS18
ATOM	49988	CB	LYS	R	68	173.821	121.508	-69.361	1.00	90.02	RS18
ATOM	49989	CG	LYS	R	68	173.422	120.315	-68.537	1.00	90.02	RS18
ATOM	49990	CD	LYS	R	68	172.175	119.689	-69.117	1.00	90.02	RS18
ATOM	49991	CE	LYS	R	68	171.831	118.405	-68.395	1.00	90.02	RS18
ATOM	49992	NZ	LYS	R	68	170.592	117.791	-68.954	1.00	90.02	RS18
ATOM	49993	C	LYS	R	68	175.742	122.284	-70.735	1.00	53.58	RS18
ATOM	49994	O	LYS	R	68	176.514	121.628	-71.449	1.00	53.58	RS18
ATOM	49995	N	THR	R	69	175.225	123.451	-71.099	1.00	73.46	RS18
ATOM	49996	CA	THR	R	69	175.526	124.052	-72.388	1.00	73.46	RS18
ATOM	49997	CB	THR	R	69	174.965	125.490	-72.453	1.00	61.05	RS18
ATOM	49998	OG1	THR	R	69	173.538	125.431	-72.591	1.00	61.05	RS18
ATOM	49999	CG2	THR	R	69	175.555	126.245	-73.627	1.00	61.05	RS18
ATOM	50000	C	THR	R	69	177.022	124.042	-72.706	1.00	73.46	RS18
ATOM	50001	O	THR	R	69	177.418	123.752	-73.837	1.00	73.46	RS18
ATOM	50002	N	ILE	R	70	177.848	124.348	-71.711	1.00	59.70	RS18
ATOM	50003	CA	ILE	R	70	179.291	124.350	-71.906	1.00	59.70	RS18
ATOM	50004	CB	ILE	R	70	180.007	124.881	-70.674	1.00	52.34	RS18
ATOM	50005	CG2	ILE	R	70	181.504	124.850	-70.887	1.00	52.34	RS18
ATOM	50006	CG1	ILE	R	70	179.549	126.307	-70.402	1.00	52.34	RS18
ATOM	50007	CD1	ILE	R	70	180.204	126.924	-69.188	1.00	52.34	RS18
ATOM	50008	C	ILE	R	70	179.783	122.929	-72.164	1.00	59.70	RS18
ATOM	50009	O	ILE	R	70	180.630	122.686	-73.031	1.00	59.70	RS18
ATOM	50010	N	LYS	R	71	179.245	121.987	-71.406	1.00	61.54	RS18
ATOM	50011	CA	LYS	R	71	179.639	120.604	-71.555	1.00	61.54	RS18
ATOM	50012	CB	LYS	R	71	179.002	119.777	-70.440	1.00	55.49	RS18
ATOM	50013	CG	LYS	R	71	179.571	120.155	-69.078	1.00	55.49	RS18
ATOM	50014	CD	LYS	R	71	178.864	119.499	-67.923	1.00	55.49	RS18
ATOM	50015	CE	LYS	R	71	179.388	120.081	-66.622	1.00	55.49	RS18
ATOM	50016	NZ	LYS	R	71	178.680	119.531	-65.436	1.00	55.49	RS18
ATOM	50017	C	LYS	R	71	179.287	120.064	-72.934	1.00	61.54	RS18
ATOM	50018	O	LYS	R	71	179.986	119.202	-73.467	1.00	61.54	RS18
ATOM	50019	N	ARG	R	72	178.214	120.573	-73.525	1.00	63.83	RS18
ATOM	50020	CA	ARG	R	72	177.825	120.123	-74.859	1.00	63.83	RS18
ATOM	50021	CB	ARG	R	72	176.452	120.687	-75.245	1.00	90.59	RS18
ATOM	50022	CG	ARG	R	72	175.270	119.970	-74.601	1.00	90.59	RS18
ATOM	50023	CD	ARG	R	72	173.945	120.706	-74.842	1.00	90.59	RS18
ATOM	50024	NE	ARG	R	72	172.783	119.849	-74.583	1.00	90.59	RS18
ATOM	50025	CZ	ARG	R	72	171.515	120.194	-74.804	1.00	90.59	RS18



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ATOM	50026	NH1	ARG	R	72	171.210	121.393	-75.288	1.00	90.59	RS18
ATOM	50027	NH2	ARG	R	72	170.545	119.323	-74.557	1.00	90.59	RS18
ATOM	50028	C	ARG	R	72	178.881	120.621	-75.831	1.00	63.83	RS18
ATOM	50029	O	ARG	R	72	179.353	119.876	-76.688	1.00	63.83	RS18
ATOM	50030	N	ALA	R	73	179.260	121.885	-75.668	1.00	44.09	RS18
ATOM	50031	CA	ALA	R	73	180.255	122.516	-76.528	1.00	44.09	RS18
ATOM	50032	CB	ALA	R	73	180.550	123.912	-76.046	1.00	50.78	RS18
ATOM	50033	C	ALA	R	73	181.527	121.710	-76.544	1.00	44.09	RS18
ATOM	50034	O	ALA	R	73	182.101	121.443	-77.599	1.00	44.09	RS18
ATOM	50035	N	ARG	R	74	181.973	121.337	-75.355	1.00	54.80	RS18
ATOM	50036	CA	ARG	R	74	183.174	120.540	-75.230	1.00	54.80	RS18
ATOM	50037	CB	ARG	R	74	183.389	120.154	-73.769	1.00	59.73	RS18
ATOM	50038	CG	ARG	R	74	183.709	121.339	-72.879	1.00	59.73	RS18
ATOM	50039	CD	ARG	R	74	183.818	120.911	-71.440	1.00	59.73	RS18
ATOM	50040	NE	ARG	R	74	184.327	121.980	-70.590	1.00	59.73	RS18
ATOM	50041	CZ	ARG	R	74	184.313	121.938	-69.264	1.00	59.73	RS18
ATOM	50042	NH1	ARG	R	74	183.814	120.881	-68.636	1.00	59.73	RS18
ATOM	50043	NH2	ARG	R	74	184.800	122.948	-68.569	1.00	59.73	RS18
ATOM	50044	C	ARG	R	74	183.015	119.304	-76.101	1.00	54.80	RS18
ATOM	50045	O	ARG	R	74	183.776	119.109	-77.043	1.00	54.80	RS18
ATOM	50046	N	ILE	R	75	182.016	118.484	-75.803	1.00	55.99	RS18
ATOM	50047	CA	ILE	R	75	181.785	117.292	-76.602	1.00	55.99	RS18
ATOM	50048	CB	ILE	R	75	180.442	116.613	-76.224	1.00	73.03	RS18
ATOM	50049	CG2	ILE	R	75	180.022	115.625	-77.303	1.00	73.03	RS18
ATOM	50050	CG1	ILE	R	75	180.589	115.887	-74.886	1.00	73.03	RS18
ATOM	50051	CD1	ILE	R	75	179.493	114.859	-74.610	1.00	73.03	RS18
ATOM	50052	C	ILE	R	75	181.797	117.601	-78.113	1.00	55.99	RS18
ATOM	50053	O	ILE	R	75	182.626	117.071	-78.858	1.00	55.99	RS18
ATOM	50054	N	LEU	R	76	180.886	118.456	-78.568	1.00	86.65	RS18
ATOM	50055	CA	LEU	R	76	180.839	118.786	-79.985	1.00	86.65	RS18
ATOM	50056	CB	LEU	R	76	179.960	120.005	-80.229	1.00	53.86	RS18
ATOM	50057	CG	LEU	R	76	178.460	119.700	-80.232	1.00	53.86	RS18
ATOM	50058	CD1	LEU	R	76	177.686	120.977	-80.520	1.00	53.86	RS18
ATOM	50059	CD2	LEU	R	76	178.148	118.632	-81.273	1.00	53.86	RS18
ATOM	50060	C	LEU	R	76	182.229	119.057	-80.500	1.00	86.65	RS18
ATOM	50061	O	LEU	R	76	182.528	118.788	-81.657	1.00	86.65	RS18
ATOM	50062	N	GLY	R	77	183.078	119.592	-79.633	1.00	46.86	RS18
ATOM	50063	CA	GLY	R	77	184.442	119.874	-80.030	1.00	46.86	RS18
ATOM	50064	C	GLY	R	77	184.741	121.351	-80.097	1.00	46.86	RS18
ATOM	50065	O	GLY	R	77	185.867	121.738	-80.391	1.00	46.86	RS18
ATOM	50066	N	LEU	R	78	183.744	122.178	-79.796	1.00	65.29	RS18
ATOM	50067	CA	LEU	R	78	183.903	123.630	-79.844	1.00	65.29	RS18
ATOM	50068	CB	LEU	R	78	182.537	124.288	-79.994	1.00	70.05	RS18
ATOM	50069	CG	LEU	R	78	181.629	123.509	-80.947	1.00	70.05	RS18
ATOM	50070	CD1	LEU	R	78	180.257	124.142	-81.014	1.00	70.05	RS18
ATOM	50071	CD2	LEU	R	78	182.266	123.469	-82.314	1.00	70.05	RS18
ATOM	50072	C	LEU	R	78	184.636	124.237	-78.649	1.00	65.29	RS18
ATOM	50073	O	LEU	R	78	185.520	125.071	-78.842	1.00	65.29	RS18
ATOM	50074	N	LEU	R	79	184.271	123.838	-77.426	1.00	56.50	RS18
ATOM	50075	CA	LEU	R	79	184.923	124.355	-76.209	1.00	56.50	RS18
ATOM	50076	CB	LEU	R	79	183.879	124.754	-75.169	1.00	69.88	RS18
ATOM	50077	CG	LEU	R	79	183.277	126.151	-75.315	1.00	69.88	RS18
ATOM	50078	CD1	LEU	R	79	182.151	126.343	-74.315	1.00	69.88	RS18
ATOM	50079	CD2	LEU	R	79	184.360	127.177	-75.088	1.00	69.88	RS18
ATOM	50080	C	LEU	R	79	185.894	123.346	-75.595	1.00	56.50	RS18
ATOM	50081	O	LEU	R	79	185.690	122.144	-75.682	1.00	56.50	RS18
ATOM	50082	N	PRO	R	80	186.954	123.831	-74.939	1.00	44.55	RS18
ATOM	50083	CD	PRO	R	80	187.206	125.256	-74.664	1.00	41.22	RS18
ATOM	50084	CA	PRO	R	80	187.982	122.997	-74.306	1.00	44.55	RS18
ATOM	50085	CB	PRO	R	80	189.126	123.973	-74.099	1.00	41.22	RS18
ATOM	50086	CG	PRO	R	80	188.393	125.197	-73.687	1.00	41.22	RS18
ATOM	50087	C	PRO	R	80	187.597	122.333	-72.996	1.00	44.55	RS18
ATOM	50088	O	PRO	R	80	186.658	122.746	-72.322	1.00	44.55	RS18
ATOM	50089	N	PHE	R	81	188.345	121.299	-72.638	1.00	74.87	RS18
ATOM	50090	CA	PHE	R	81	188.110	120.601	-71.393	1.00	74.87	RS18
ATOM	50091	CB	PHE	R	81	188.296	119.103	-71.553	1.00	74.85	RS18
ATOM	50092	CG	PHE	R	81	187.099	118.397	-72.093	1.00	74.85	RS18
ATOM	50093	CD1	PHE	R	81	186.742	118.523	-73.428	1.00	74.85	RS18
ATOM	50094	CD2	PHE	R	81	186.349	117.564	-71.274	1.00	74.85	RS18
ATOM	50095	CE1	PHE	R	81	185.657	117.821	-73.946	1.00	74.85	RS18
ATOM	50096	CE2	PHE	R	81	185.261	116.859	-71.781	1.00	74.85	RS18
ATOM	50097	CZ	PHE	R	81	184.916	116.987	-73.121	1.00	74.85	RS18
ATOM	50098	C	PHE	R	81	189.109	121.109	-70.376	1.00	74.87	RS18
ATOM	50099	O	PHE	R	81	188.872	121.021	-69.173	1.00	74.87	RS18
ATOM	50100	N	THR	R	82	190.232	121.639	-70.849	1.00	59.19	RS18
ATOM	50101	CA	THR	R	82	191.229	122.157	-69.924	1.00	59.19	RS18
ATOM	50102	CB	THR	R	82	191.649	121.049	-68.935	1.00	87.17	RS18



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ATOM	50103	OG1	THR	R	82	192.689	121.529	-68.077	1.00	87.17	RS18
ATOM	50104	CG2	THR	R	82	192.108	119.827	-69.680	1.00	87.17	RS18
ATOM	50105	C	THR	R	82	192.450	122.746	-70.637	1.00	59.19	RS18
ATOM	50106	O	THR	R	82	192.953	122.166	-71.588	1.00	59.19	RS18
ATOM	50107	N	GLU	R	83	192.910	123.908	-70.175	1.00	65.61	RS18
ATOM	50108	CA	GLU	R	83	194.054	124.587	-70.780	1.00	65.61	RS18
ATOM	50109	CB	GLU	R	83	193.775	126.087	-70.918	1.00	142.56	RS18
ATOM	50110	CG	GLU	R	83	192.373	126.457	-71.368	1.00	142.56	RS18
ATOM	50111	CD	GLU	R	83	192.181	126.350	-72.862	1.00	142.56	RS18
ATOM	50112	OE1	GLU	R	83	192.392	125.249	-73.412	1.00	142.56	RS18
ATOM	50113	OE2	GLU	R	83	191.812	127.371	-73.483	1.00	142.56	RS18
ATOM	50114	C	GLU	R	83	195.299	124.428	-69.916	1.00	65.61	RS18
ATOM	50115	O	GLU	R	83	195.208	124.139	-68.721	1.00	65.61	RS18
ATOM	50116	N	LYS	R	84	196.465	124.623	-70.521	1.00	92.49	RS18
ATOM	50117	CA	LYS	R	84	197.714	124.550	-69.777	1.00	92.49	RS18
ATOM	50118	CB	LYS	R	84	198.898	124.334	-70.720	1.00	102.67	RS18
ATOM	50119	CG	LYS	R	84	198.961	122.987	-71.418	1.00	102.67	RS18
ATOM	50120	CD	LYS	R	84	200.293	122.859	-72.167	1.00	102.67	RS18
ATOM	50121	CE	LYS	R	84	200.544	121.454	-72.716	1.00	102.67	RS18
ATOM	50122	NZ	LYS	R	84	201.925	121.310	-73.285	1.00	102.67	RS18
ATOM	50123	C	LYS	R	84	197.848	125.921	-69.115	1.00	92.49	RS18
ATOM	50124	O	LYS	R	84	197.356	126.914	-69.658	1.00	92.49	RS18
ATOM	50125	N	LEU	R	85	198.503	125.986	-67.957	1.00	69.09	RS18
ATOM	50126	CA	LEU	R	85	198.678	127.267	-67.264	1.00	69.09	RS18
ATOM	50127	CB	LEU	R	85	198.572	127.079	-65.748	1.00	82.82	RS18
ATOM	50128	CG	LEU	R	85	198.724	128.358	-64.911	1.00	82.82	RS18
ATOM	50129	CD1	LEU	R	85	197.866	129.474	-65.495	1.00	82.82	RS18
ATOM	50130	CD2	LEU	R	85	198.333	128.076	-63.462	1.00	82.82	RS18
ATOM	50131	C	LEU	R	85	199.995	127.966	-67.597	1.00	69.09	RS18
ATOM	50132	O	LEU	R	85	201.067	127.362	-67.533	1.00	69.09	RS18
ATOM	50133	N	VAL	R	86	199.906	129.250	-67.929	1.00	80.42	RS18
ATOM	50134	CA	VAL	R	86	201.077	130.046	-68.289	1.00	80.42	RS18
ATOM	50135	CB	VAL	R	86	200.745	130.930	-69.476	1.00	53.97	RS18
ATOM	50136	CG1	VAL	R	86	201.961	131.757	-69.861	1.00	53.97	RS18
ATOM	50137	CG2	VAL	R	86	200.271	130.065	-70.627	1.00	53.97	RS18
ATOM	50138	C	VAL	R	86	201.604	130.922	-67.148	1.00	80.42	RS18
ATOM	50139	O	VAL	R	86	200.816	131.514	-66.417	1.00	80.42	RS18
ATOM	50140	N	ARG	R	87	202.933	131.014	-67.034	1.00	161.81	RS18
ATOM	50141	CA	ARG	R	87	203.641	131.767	-65.981	1.00	161.81	RS18
ATOM	50142	CB	ARG	R	87	202.712	132.699	-65.205	1.00	140.52	RS18
ATOM	50143	CG	ARG	R	87	202.297	133.942	-65.926	1.00	140.52	RS18
ATOM	50144	CD	ARG	R	87	203.332	135.031	-65.791	1.00	140.52	RS18
ATOM	50145	NE	ARG	R	87	202.809	136.274	-66.340	1.00	140.52	RS18
ATOM	50146	CZ	ARG	R	87	202.356	136.398	-67.583	1.00	140.52	RS18
ATOM	50147	NH1	ARG	R	87	202.369	135.354	-68.403	1.00	140.52	RS18
ATOM	50148	NH2	ARG	R	87	201.878	137.560	-68.006	1.00	140.52	RS18
ATOM	50149	C	ARG	R	87	204.204	130.745	-64.997	1.00	161.81	RS18
ATOM	50150	O	ARG	R	87	205.033	129.917	-65.361	1.00	161.81	RS18
ATOM	50151	N	LYS	R	88	203.742	130.809	-63.750	1.00	110.83	RS18
ATOM	50152	CA	LYS	R	88	204.166	129.877	-62.703	1.00	110.83	RS18
ATOM	50153	CB	LYS	R	88	203.826	128.439	-63.124	1.00	91.19	RS18
ATOM	50154	CG	LYS	R	88	203.901	127.431	-61.996	1.00	91.19	RS18
ATOM	50155	CD	LYS	R	88	203.560	126.026	-62.471	1.00	91.19	RS18
ATOM	50156	CE	LYS	R	88	203.614	125.026	-61.311	1.00	91.19	RS18
ATOM	50157	NZ	LYS	R	88	203.343	123.596	-61.677	1.00	91.19	RS18
ATOM	50158	C	LYS	R	88	205.655	129.993	-62.350	1.00	110.83	RS18
ATOM	50159	O	LYS	R	88	206.297	130.972	-62.793	1.00	110.83	RS18
ATOM	50160	OXT	LYS	R	88	206.158	129.113	-61.615	1.00	120.16	RS18
TER	50160		LYS	R	88						RS18
ATOM	50161	CB	PRO	S	2	255.224	113.980	14.229	1.00	118.18	SS19
ATOM	50162	CG	PRO	S	2	254.580	112.730	13.649	1.00	118.18	SS19
ATOM	50163	C	PRO	S	2	254.796	113.713	16.682	1.00	120.30	SS19
ATOM	50164	O	PRO	S	2	253.890	114.537	16.542	1.00	120.30	SS19
ATOM	50165	N	PRO	S	2	256.031	112.006	15.352	1.00	120.30	SS19
ATOM	50166	CD	PRO	S	2	255.547	111.590	14.024	1.00	118.18	SS19
ATOM	50167	CA	PRO	S	2	255.778	113.451	15.545	1.00	120.30	SS19
ATOM	50168	N	ARG	S	3	254.978	113.010	17.799	1.00	198.94	SS19
ATOM	50169	CA	ARG	S	3	254.112	113.152	18.978	1.00	198.94	SS19
ATOM	50170	CB	ARG	S	3	254.021	111.820	19.733	1.00	198.68	SS19
ATOM	50171	CG	ARG	S	3	253.595	110.617	18.901	1.00	198.68	SS19
ATOM	50172	CD	ARG	S	3	253.625	109.349	19.753	1.00	198.68	SS19
ATOM	50173	NE	ARG	S	3	253.294	108.142	18.998	1.00	198.68	SS19
ATOM	50174	CZ	ARG	S	3	253.282	106.916	19.515	1.00	198.68	SS19
ATOM	50175	NH1	ARG	S	3	253.582	106.726	20.794	1.00	198.68	SS19
ATOM	50176	NH2	ARG	S	3	252.969	105.878	18.752	1.00	198.68	SS19
ATOM	50177	C	ARG	S	3	254.672	114.223	19.924	1.00	198.94	SS19
ATOM	50178	O	ARG	S	3	255.759	114.751	19.676	1.00	198.94	SS19



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ATOM	50179	N	SER	S	4	253.944	114.534	21.004	1.00105.25	SS19
ATOM	50180	CA	SER	S	4	254.402	115.542	21.972	1.00105.25	SS19
ATOM	50181	CB	SER	S	4	254.760	116.839	21.247	1.00165.28	SS19
ATOM	50182	OG	SER	S	4	253.627	117.367	20.585	1.00165.28	SS19
ATOM	50183	C	SER	S	4	253.466	115.901	23.127	1.00105.25	SS19
ATOM	50184	O	SER	S	4	252.245	115.908	22.987	1.00105.25	SS19
ATOM	50185	N	LEU	S	5	254.075	116.224	24.264	1.00103.03	SS19
ATOM	50186	CA	LEU	S	5	253.357	116.625	25.466	1.00103.03	SS19
ATOM	50187	CB	LEU	S	5	253.496	115.570	26.561	1.00124.05	SS19
ATOM	50188	CG	LEU	S	5	252.480	114.434	26.460	1.00124.05	SS19
ATOM	50189	CD1	LEU	S	5	252.718	113.400	27.560	1.00124.05	SS19
ATOM	50190	CD2	LEU	S	5	251.081	115.030	26.561	1.00124.05	SS19
ATOM	50191	C	LEU	S	5	253.887	117.963	25.967	1.00103.03	SS19
ATOM	50192	O	LEU	S	5	253.110	118.898	26.127	1.00103.03	SS19
ATOM	50193	N	LYS	S	6	255.204	118.032	26.204	1.00132.31	SS19
ATOM	50194	CA	LYS	S	6	255.919	119.237	26.675	1.00132.31	SS19
ATOM	50195	CB	LYS	S	6	254.961	120.253	27.320	1.00 96.77	SS19
ATOM	50196	CG	LYS	S	6	254.417	121.293	26.360	1.00 96.77	SS19
ATOM	50197	CD	LYS	S	6	253.349	122.165	27.001	1.00 96.77	SS19
ATOM	50198	CE	LYS	S	6	252.056	121.399	27.270	1.00 96.77	SS19
ATOM	50199	NZ	LYS	S	6	250.941	122.298	27.722	1.00 96.77	SS19
ATOM	50200	C	LYS	S	6	257.046	118.946	27.672	1.00132.31	SS19
ATOM	50201	O	LYS	S	6	258.122	118.460	27.309	1.00132.31	SS19
ATOM	50202	N	LYS	S	7	256.774	119.275	28.932	1.00110.19	SS19
ATOM	50203	CA	LYS	S	7	257.703	119.086	30.039	1.00110.19	SS19
ATOM	50204	CB	LYS	S	7	258.369	120.421	30.377	1.00 65.08	SS19
ATOM	50205	CG	LYS	S	7	257.405	121.463	30.930	1.00 65.08	SS19
ATOM	50206	CD	LYS	S	7	258.092	122.799	31.116	1.00 65.08	SS19
ATOM	50207	CE	LYS	S	7	258.016	123.671	29.868	1.00 65.08	SS19
ATOM	50208	NZ	LYS	S	7	256.770	124.514	29.828	1.00 65.08	SS19
ATOM	50209	C	LYS	S	7	256.895	118.569	31.241	1.00110.19	SS19
ATOM	50210	O	LYS	S	7	256.239	119.340	31.948	1.00110.19	SS19
ATOM	50211	N	GLY	S	8	256.931	117.255	31.448	1.00107.83	SS19
ATOM	50212	CA	GLY	S	8	256.197	116.652	32.547	1.00107.83	SS19
ATOM	50213	C	GLY	S	8	255.479	115.362	32.172	1.00107.83	SS19
ATOM	50214	O	GLY	S	8	254.283	115.226	32.438	1.00107.83	SS19
ATOM	50215	N	VAL	S	9	256.208	114.426	31.556	1.00 94.88	SS19
ATOM	50216	CA	VAL	S	9	255.687	113.115	31.128	1.00 94.88	SS19
ATOM	50217	CB	VAL	S	9	256.810	112.060	31.165	1.00 94.70	SS19
ATOM	50218	CG1	VAL	S	9	256.282	110.709	30.697	1.00 94.70	SS19
ATOM	50219	CG2	VAL	S	9	257.986	112.531	30.315	1.00 94.70	SS19
ATOM	50220	C	VAL	S	9	254.532	112.614	31.999	1.00 94.88	SS19
ATOM	50221	O	VAL	S	9	254.698	112.426	33.201	1.00 94.88	SS19
ATOM	50222	N	PHE	S	10	253.375	112.359	31.397	1.00 84.14	SS19
ATOM	50223	CA	PHE	S	10	252.217	111.929	32.179	1.00 84.14	SS19
ATOM	50224	CB	PHE	S	10	250.936	112.485	31.555	1.00121.96	SS19
ATOM	50225	CG	PHE	S	10	249.714	112.291	32.414	1.00121.96	SS19
ATOM	50226	CD1	PHE	S	10	249.307	113.278	33.302	1.00121.96	SS19
ATOM	50227	CD2	PHE	S	10	248.986	111.106	32.357	1.00121.96	SS19
ATOM	50228	CE1	PHE	S	10	248.192	113.084	34.121	1.00121.96	SS19
ATOM	50229	CE2	PHE	S	10	247.877	110.908	33.171	1.00121.96	SS19
ATOM	50230	CZ	PHE	S	10	247.478	111.897	34.054	1.00121.96	SS19
ATOM	50231	C	PHE	S	10	252.015	110.432	32.452	1.00 84.14	SS19
ATOM	50232	O	PHE	S	10	252.245	109.586	31.589	1.00 84.14	SS19
ATOM	50233	N	VAL	S	11	251.554	110.138	33.669	1.00 99.00	SS19
ATOM	50234	CA	VAL	S	11	251.268	108.780	34.137	1.00 99.00	SS19
ATOM	50235	CB	VAL	S	11	252.537	108.036	34.620	1.00115.25	SS19
ATOM	50236	CG1	VAL	S	11	252.152	106.677	35.200	1.00115.25	SS19
ATOM	50237	CG2	VAL	S	11	253.517	107.863	33.476	1.00115.25	SS19
ATOM	50238	C	VAL	S	11	250.327	108.853	35.335	1.00 99.00	SS19
ATOM	50239	O	VAL	S	11	250.706	109.366	36.392	1.00 99.00	SS19
ATOM	50240	N	ASP	S	12	249.106	108.351	35.176	1.00120.45	SS19
ATOM	50241	CA	ASP	S	12	248.159	108.358	36.282	1.00120.45	SS19
ATOM	50242	CB	ASP	S	12	246.827	107.723	35.874	1.00163.77	SS19
ATOM	50243	CG	ASP	S	12	245.802	108.749	35.419	1.00163.77	SS19
ATOM	50244	OD1	ASP	S	12	245.950	109.308	34.316	1.00163.77	SS19
ATOM	50245	OD2	ASP	S	12	244.841	109.000	36.174	1.00163.77	SS19
ATOM	50246	C	ASP	S	12	248.788	107.557	37.413	1.00120.45	SS19
ATOM	50247	O	ASP	S	12	249.206	106.415	37.216	1.00120.45	SS19
ATOM	50248	N	ASP	S	13	248.855	108.161	38.594	1.00 88.73	SS19
ATOM	50249	CA	ASP	S	13	249.458	107.519	39.754	1.00 88.74	SS19
ATOM	50250	CB	ASP	S	13	249.776	108.574	40.807	1.00132.01	SS19
ATOM	50251	CG	ASP	S	13	248.594	109.458	41.104	1.00132.33	SS19
ATOM	50252	OD1	ASP	S	13	248.791	110.515	41.735	1.00133.03	SS19
ATOM	50253	OD2	ASP	S	13	247.468	109.091	40.707	1.00132.93	SS19
ATOM	50254	C	ASP	S	13	248.640	106.391	40.375	1.00 88.74	SS19
ATOM	50255	O	ASP	S	13	248.879	106.005	41.513	1.00 88.74	SS19



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ATOM	50256	N	HIS	S	14	247.672	105.864	39.637	1.00126.92	SS19
ATOM	50257	CA	HIS	S	14	246.883	104.755	40.157	1.00126.97	SS19
ATOM	50258	CB	HIS	S	14	245.687	104.444	39.254	1.00162.38	SS19
ATOM	50259	CG	HIS	S	14	244.810	105.623	38.983	1.00162.51	SS19
ATOM	50260	CD2	HIS	S	14	244.348	106.142	37.821	1.00163.08	SS19
ATOM	50261	ND1	HIS	S	14	244.295	106.414	39.987	1.00163.30	SS19
ATOM	50262	CE1	HIS	S	14	243.554	107.370	39.455	1.00163.24	SS19
ATOM	50263	NE2	HIS	S	14	243.570	107.227	38.142	1.00162.95	SS19
ATOM	50264	C	HIS	S	14	247.837	103.582	40.116	1.00126.93	SS19
ATOM	50265	O	HIS	S	14	248.286	103.077	41.144	1.00126.99	SS19
ATOM	50266	N	LEU	S	15	248.147	103.171	38.894	1.00155.53	SS19
ATOM	50267	CA	LEU	S	15	249.048	102.063	38.649	1.00155.56	SS19
ATOM	50268	CB	LEU	S	15	248.933	101.621	37.186	1.00115.11	SS19
ATOM	50269	CG	LEU	S	15	248.813	102.697	36.096	1.00115.16	SS19
ATOM	50270	CD1	LEU	S	15	249.991	103.661	36.107	1.00115.28	SS19
ATOM	50271	CD2	LEU	S	15	248.733	101.999	34.759	1.00115.29	SS19
ATOM	50272	C	LEU	S	15	250.495	102.418	38.973	1.00155.48	SS19
ATOM	50273	O	LEU	S	15	251.312	101.533	39.220	1.00155.49	SS19
ATOM	50274	N	LEU	S	16	250.810	103.710	38.978	1.00 95.44	SS19
ATOM	50275	CA	LEU	S	16	252.174	104.146	39.258	1.00 95.46	SS19
ATOM	50276	CB	LEU	S	16	252.305	105.660	39.080	1.00115.65	SS19
ATOM	50277	CG	LEU	S	16	253.717	106.219	39.276	1.00115.69	SS19
ATOM	50278	CD1	LEU	S	16	254.705	105.421	38.433	1.00115.97	SS19
ATOM	50279	CD2	LEU	S	16	253.750	107.692	38.897	1.00115.98	SS19
ATOM	50280	C	LEU	S	16	252.600	103.761	40.662	1.00 95.44	SS19
ATOM	50281	O	LEU	S	16	253.404	102.848	40.849	1.00 95.48	SS19
ATOM	50282	N	GLU	S	17	252.058	104.454	41.655	1.00137.48	SS19
ATOM	50283	CA	GLU	S	17	252.407	104.156	43.030	1.00137.54	SS19
ATOM	50284	CB	GLU	S	17	251.814	105.208	43.967	1.00174.64	SS19
ATOM	50285	CG	GLU	S	17	250.304	105.246	44.013	1.00174.90	SS19
ATOM	50286	CD	GLU	S	17	249.795	106.473	44.745	1.00174.84	SS19
ATOM	50287	OE1	GLU	S	17	248.598	106.508	45.108	1.00175.43	SS19
ATOM	50288	OE2	GLU	S	17	250.600	107.408	44.950	1.00175.64	SS19
ATOM	50289	C	GLU	S	17	251.930	102.756	43.406	1.00137.53	SS19
ATOM	50290	O	GLU	S	17	251.898	102.392	44.579	1.00137.62	SS19
ATOM	50291	N	LYS	S	18	251.556	101.978	42.395	1.00101.45	SS19
ATOM	50292	CA	LYS	S	18	251.118	100.601	42.594	1.00101.47	SS19
ATOM	50293	CB	LYS	S	18	249.710	100.371	42.045	1.00115.98	SS19
ATOM	50294	CG	LYS	S	18	249.271	98.911	42.150	1.00116.10	SS19
ATOM	50295	CD	LYS	S	18	248.117	98.577	41.213	1.00117.05	SS19
ATOM	50296	CE	LYS	S	18	246.841	99.330	41.569	1.00117.71	SS19
ATOM	50297	NZ	LYS	S	18	245.688	98.910	40.715	1.00118.62	SS19
ATOM	50298	C	LYS	S	18	252.081	99.694	41.838	1.00101.47	SS19
ATOM	50299	O	LYS	S	18	252.277	98.532	42.201	1.00101.51	SS19
ATOM	50300	N	VAL	S	19	252.669	100.236	40.775	1.00130.97	SS19
ATOM	50301	CA	VAL	S	19	253.611	99.489	39.955	1.00131.01	SS19
ATOM	50302	CB	VAL	S	19	253.743	100.103	38.535	1.00135.98	SS19
ATOM	50303	CG1	VAL	S	19	254.357	101.493	38.609	1.00136.38	SS19
ATOM	50304	CG2	VAL	S	19	254.587	99.198	37.655	1.00136.34	SS19
ATOM	50305	C	VAL	S	19	254.971	99.489	40.632	1.00131.01	SS19
ATOM	50306	O	VAL	S	19	255.714	98.513	40.542	1.00131.05	SS19
ATOM	50307	N	LEU	S	20	255.288	100.585	41.316	1.00157.26	SS19
ATOM	50308	CA	LEU	S	20	256.561	100.705	42.015	1.00157.30	SS19
ATOM	50309	CB	LEU	S	20	256.993	102.175	42.086	1.00103.97	SS19
ATOM	50310	CG	LEU	S	20	255.986	103.227	42.552	1.00104.84	SS19
ATOM	50311	CD1	LEU	S	20	255.667	103.047	44.027	1.00105.49	SS19
ATOM	50312	CD2	LEU	S	20	256.575	104.602	42.304	1.00105.55	SS19
ATOM	50313	C	LEU	S	20	256.490	100.092	43.411	1.00157.28	SS19
ATOM	50314	O	LEU	S	20	257.510	99.695	43.981	1.00157.33	SS19
ATOM	50315	N	GLU	S	21	255.282	100.020	43.960	1.00 94.62	SS19
ATOM	50316	CA	GLU	S	21	255.097	99.420	45.269	1.00 94.65	SS19
ATOM	50317	CB	GLU	S	21	253.632	99.473	45.694	1.00192.16	SS19
ATOM	50318	CG	GLU	S	21	253.355	100.438	46.825	1.00192.65	SS19
ATOM	50319	CD	GLU	S	21	251.980	100.235	47.425	1.00193.51	SS19
ATOM	50320	OE1	GLU	S	21	251.674	99.089	47.815	1.00194.29	SS19
ATOM	50321	OE2	GLU	S	21	251.209	101.216	47.513	1.00194.01	SS19
ATOM	50322	C	GLU	S	21	255.518	97.977	45.102	1.00 94.65	SS19
ATOM	50323	O	GLU	S	21	256.257	97.433	45.913	1.00 94.71	SS19
ATOM	50324	N	LEU	S	22	255.048	97.373	44.019	1.00113.74	SS19
ATOM	50325	CA	LEU	S	22	255.358	95.986	43.708	1.00113.78	SS19
ATOM	50326	CB	LEU	S	22	254.560	95.547	42.485	1.00116.40	SS19
ATOM	50327	CG	LEU	S	22	253.068	95.823	42.644	1.00116.62	SS19
ATOM	50328	CD1	LEU	S	22	252.364	95.582	41.330	1.00117.53	SS19
ATOM	50329	CD2	LEU	S	22	252.499	94.948	43.754	1.00117.16	SS19
ATOM	50330	C	LEU	S	22	256.845	95.807	43.445	1.00113.79	SS19
ATOM	50331	O	LEU	S	22	257.366	94.693	43.524	1.00113.86	SS19
ATOM	50332	N	ASN	S	23	257.521	96.907	43.126	1.00173.99	SS19



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ATOM	50333	CA	ASN	S	23	258.951	96.865	42.858	1.00174.03	SS19
ATOM	50334	CB	ASN	S	23	259.436	98.196	42.273	1.00117.52	SS19
ATOM	50335	CG	ASN	S	23	258.959	98.417	40.842	1.00117.56	SS19
ATOM	50336	OD1	ASN	S	23	258.790	97.462	40.072	1.00117.72	SS19
ATOM	50337	ND2	ASN	S	23	258.763	99.680	40.472	1.00117.53	SS19
ATOM	50338	C	ASN	S	23	259.715	96.553	44.136	1.00174.07	SS19
ATOM	50339	O	ASN	S	23	260.814	96.004	44.094	1.00174.13	SS19
ATOM	50340	N	ALA	S	24	259.126	96.906	45.273	1.00140.52	SS19
ATOM	50341	CA	ALA	S	24	259.754	96.645	46.560	1.00140.59	SS19
ATOM	50342	CB	ALA	S	24	258.950	97.307	47.682	1.00 35.26	SS19
ATOM	50343	C	ALA	S	24	259.858	95.136	46.793	1.00140.67	SS19
ATOM	50344	O	ALA	S	24	260.848	94.655	47.341	1.00140.74	SS19
ATOM	50345	N	LYS	S	25	258.833	94.395	46.377	1.00124.09	SS19
ATOM	50346	CA	LYS	S	25	258.824	92.941	46.532	1.00124.20	SS19
ATOM	50347	CB	LYS	S	25	257.459	92.443	47.035	1.00135.67	SS19
ATOM	50348	CG	LYS	S	25	256.815	93.290	48.130	1.00136.30	SS19
ATOM	50349	CD	LYS	S	25	256.095	94.505	47.536	1.00137.15	SS19
ATOM	50350	CE	LYS	S	25	255.326	95.313	48.586	1.00137.98	SS19
ATOM	50351	NZ	LYS	S	25	256.211	96.012	49.561	1.00138.94	SS19
ATOM	50352	C	LYS	S	25	259.119	92.325	45.165	1.00124.19	SS19
ATOM	50353	O	LYS	S	25	258.683	91.210	44.853	1.00124.31	SS19
ATOM	50354	N	GLY	S	26	259.862	93.071	44.354	1.00198.60	SS19
ATOM	50355	CA	GLY	S	26	260.211	92.606	43.026	1.00198.70	SS19
ATOM	50356	C	GLY	S	26	259.157	92.990	42.008	1.00198.71	SS19
ATOM	50357	O	GLY	S	26	259.103	94.134	41.553	1.00198.71	SS19
ATOM	50358	N	GLU	S	27	258.315	92.026	41.652	1.00166.02	SS19
ATOM	50359	CA	GLU	S	27	257.249	92.249	40.684	1.00166.02	SS19
ATOM	50360	CB	GLU	S	27	257.476	91.381	39.440	1.00198.55	SS19
ATOM	50361	CG	GLU	S	27	258.880	91.462	38.842	1.00198.55	SS19
ATOM	50362	CD	GLU	S	27	259.151	92.776	38.136	1.00198.55	SS19
ATOM	50363	OE1	GLU	S	27	258.468	93.060	37.132	1.00198.55	SS19
ATOM	50364	OE2	GLU	S	27	260.047	93.523	38.582	1.00198.55	SS19
ATOM	50365	C	GLU	S	27	255.937	91.851	41.344	1.00166.02	SS19
ATOM	50366	O	GLU	S	27	255.797	91.924	42.565	1.00166.02	SS19
ATOM	50367	N	LYS	S	28	254.979	91.434	40.525	1.00121.60	SS19
ATOM	50368	CA	LYS	S	28	253.682	90.987	41.013	1.00121.60	SS19
ATOM	50369	CB	LYS	S	28	252.689	92.154	41.116	1.00156.12	SS19
ATOM	50370	CG	LYS	S	28	251.423	91.814	41.918	1.00156.12	SS19
ATOM	50371	CD	LYS	S	28	250.471	93.001	42.054	1.00156.12	SS19
ATOM	50372	CE	LYS	S	28	249.338	92.711	43.041	1.00156.12	SS19
ATOM	50373	NZ	LYS	S	28	248.462	93.900	43.265	1.00156.12	SS19
ATOM	50374	C	LYS	S	28	253.169	89.961	40.016	1.00121.60	SS19
ATOM	50375	O	LYS	S	28	253.955	89.311	39.326	1.00121.60	SS19
ATOM	50376	N	ARG	S	29	251.853	89.813	39.941	1.00193.34	SS19
ATOM	50377	CA	ARG	S	29	251.255	88.871	39.012	1.00193.34	SS19
ATOM	50378	CB	ARG	S	29	250.881	87.569	39.728	1.00198.94	SS19
ATOM	50379	CG	ARG	S	29	252.094	86.779	40.199	1.00198.94	SS19
ATOM	50380	CD	ARG	S	29	251.726	85.375	40.646	1.00198.94	SS19
ATOM	50381	NE	ARG	S	29	252.911	84.605	41.014	1.00198.94	SS19
ATOM	50382	CZ	ARG	S	29	252.897	83.318	41.346	1.00198.94	SS19
ATOM	50383	NH1	ARG	S	29	251.754	82.642	41.358	1.00198.94	SS19
ATOM	50384	NH2	ARG	S	29	254.029	82.705	41.666	1.00198.94	SS19
ATOM	50385	C	ARG	S	29	250.039	89.477	38.333	1.00193.34	SS19
ATOM	50386	O	ARG	S	29	248.901	89.078	38.584	1.00193.34	SS19
ATOM	50387	N	LEU	S	30	250.305	90.464	37.483	1.00107.11	SS19
ATOM	50388	CA	LEU	S	30	249.276	91.149	36.714	1.00107.11	SS19
ATOM	50389	CB	LEU	S	30	248.274	90.134	36.155	1.00101.75	SS19
ATOM	50390	CG	LEU	S	30	247.770	90.363	34.733	1.00101.75	SS19
ATOM	50391	CD1	LEU	S	30	246.805	89.252	34.347	1.00101.75	SS19
ATOM	50392	CD2	LEU	S	30	247.098	91.713	34.645	1.00101.75	SS19
ATOM	50393	C	LEU	S	30	248.531	92.211	37.498	1.00107.11	SS19
ATOM	50394	O	LEU	S	30	248.217	92.042	38.673	1.00107.11	SS19
ATOM	50395	N	ILE	S	31	248.257	93.316	36.825	1.00130.03	SS19
ATOM	50396	CA	ILE	S	31	247.532	94.417	37.421	1.00130.03	SS19
ATOM	50397	CB	ILE	S	31	248.322	95.722	37.282	1.00105.94	SS19
ATOM	50398	CG2	ILE	S	31	247.705	96.810	38.140	1.00105.94	SS19
ATOM	50399	CG1	ILE	S	31	249.761	95.477	37.723	1.00105.94	SS19
ATOM	50400	CD1	ILE	S	31	249.870	94.731	39.045	1.00105.94	SS19
ATOM	50401	C	ILE	S	31	246.231	94.502	36.645	1.00130.03	SS19
ATOM	50402	O	ILE	S	31	245.574	93.481	36.442	1.00130.03	SS19
ATOM	50403	N	LYS	S	32	245.875	95.708	36.208	1.00122.24	SS19
ATOM	50404	CA	LYS	S	32	244.659	95.974	35.437	1.00122.24	SS19
ATOM	50405	CB	LYS	S	32	243.543	94.959	35.738	1.00142.30	SS19
ATOM	50406	CG	LYS	S	32	243.092	94.882	37.200	1.00142.30	SS19
ATOM	50407	CD	LYS	S	32	241.786	94.097	37.352	1.00142.30	SS19
ATOM	50408	CE	LYS	S	32	241.901	92.671	36.822	1.00142.30	SS19
ATOM	50409	NZ	LYS	S	32	240.595	91.950	36.862	1.00142.30	SS19



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ATOM	50410	C	LYS	S	32	244.157	97.359	35.782	1.00122.24	SS19
ATOM	50411	O	LYS	S	32	243.549	97.560	36.831	1.00122.24	SS19
ATOM	50412	N	THR	S	33	244.417	98.323	34.911	1.00119.83	SS19
ATOM	50413	CA	THR	S	33	243.958	99.673	35.181	1.00119.83	SS19
ATOM	50414	CB	THR	S	33	245.131	100.621	35.495	1.00142.95	SS19
ATOM	50415	OG1	THR	S	33	245.970	100.029	36.493	1.00142.95	SS19
ATOM	50416	CG2	THR	S	33	244.611	101.946	36.032	1.00142.95	SS19
ATOM	50417	C	THR	S	33	243.181	100.225	34.006	1.00119.83	SS19
ATOM	50418	O	THR	S	33	243.319	99.758	32.877	1.00119.83	SS19
ATOM	50419	N	TRP	S	34	242.341	101.209	34.294	1.00121.42	SS19
ATOM	50420	CA	TRP	S	34	241.540	101.862	33.277	1.00121.42	SS19
ATOM	50421	CB	TRP	S	34	240.260	102.430	33.894	1.00 97.17	SS19
ATOM	50422	CG	TRP	S	34	239.151	101.431	34.111	1.00 97.17	SS19
ATOM	50423	CD2	TRP	S	34	239.191	100.250	34.925	1.00 97.17	SS19
ATOM	50424	CE2	TRP	S	34	237.908	99.665	34.874	1.00 97.17	SS19
ATOM	50425	CE3	TRP	S	34	240.185	99.632	35.693	1.00 97.17	SS19
ATOM	50426	CD1	TRP	S	34	237.883	101.504	33.612	1.00 97.17	SS19
ATOM	50427	NE1	TRP	S	34	237.131	100.451	34.066	1.00 97.17	SS19
ATOM	50428	CZ2	TRP	S	34	237.589	98.493	35.563	1.00 97.17	SS19
ATOM	50429	CZ3	TRP	S	34	239.868	98.463	36.380	1.00 97.17	SS19
ATOM	50430	CH2	TRP	S	34	238.579	97.908	36.310	1.00 97.17	SS19
ATOM	50431	C	TRP	S	34	242.384	103.001	32.722	1.00121.42	SS19
ATOM	50432	O	TRP	S	34	242.062	103.594	31.694	1.00121.42	SS19
ATOM	50433	N	SER	S	35	243.477	103.298	33.415	1.00133.64	SS19
ATOM	50434	CA	SER	S	35	244.366	104.379	33.014	1.00133.64	SS19
ATOM	50435	CB	SER	S	35	245.329	104.712	34.155	1.00166.59	SS19
ATOM	50436	OG	SER	S	35	246.250	105.718	33.769	1.00166.59	SS19
ATOM	50437	C	SER	S	35	245.163	104.081	31.753	1.00133.64	SS19
ATOM	50438	O	SER	S	35	246.390	103.999	31.791	1.00133.64	SS19
ATOM	50439	N	ARG	S	36	244.475	103.920	30.630	1.00 87.61	SS19
ATOM	50440	CA	ARG	S	36	245.185	103.659	29.390	1.00 87.61	SS19
ATOM	50441	CB	ARG	S	36	244.231	103.054	28.336	1.00 67.11	SS19
ATOM	50442	CG	ARG	S	36	243.240	104.000	27.654	1.00 67.11	SS19
ATOM	50443	CD	ARG	S	36	241.924	103.283	27.257	1.00 67.11	SS19
ATOM	50444	NE	ARG	S	36	242.076	101.935	26.685	1.00 67.11	SS19
ATOM	50445	CZ	ARG	S	36	242.403	101.656	25.420	1.00 67.11	SS19
ATOM	50446	NH1	ARG	S	36	242.630	102.630	24.546	1.00 67.11	SS19
ATOM	50447	NH2	ARG	S	36	242.480	100.391	25.017	1.00 67.11	SS19
ATOM	50448	C	ARG	S	36	245.789	104.991	28.937	1.00 87.61	SS19
ATOM	50449	O	ARG	S	36	246.583	105.048	28.001	1.00 87.61	SS19
ATOM	50450	N	ARG	S	37	245.426	106.052	29.654	1.00 84.31	SS19
ATOM	50451	CA	ARG	S	37	245.893	107.413	29.388	1.00 84.31	SS19
ATOM	50452	CB	ARG	S	37	245.021	108.417	30.157	1.00198.94	SS19
ATOM	50453	CG	ARG	S	37	243.584	108.546	29.686	1.00198.94	SS19
ATOM	50454	CD	ARG	S	37	243.496	109.417	28.443	1.00198.94	SS19
ATOM	50455	NE	ARG	S	37	242.123	109.574	27.969	1.00198.94	SS19
ATOM	50456	CZ	ARG	S	37	241.777	110.278	26.894	1.00198.94	SS19
ATOM	50457	NH1	ARG	S	37	242.705	110.897	26.176	1.00198.94	SS19
ATOM	50458	NH2	ARG	S	37	240.504	110.358	26.532	1.00198.94	SS19
ATOM	50459	C	ARG	S	37	247.353	107.651	29.794	1.00 84.31	SS19
ATOM	50460	O	ARG	S	37	247.968	108.637	29.372	1.00 84.31	SS19
ATOM	50461	N	SER	S	38	247.902	106.755	30.610	1.00120.80	SS19
ATOM	50462	CA	SER	S	38	249.266	106.911	31.117	1.00120.80	SS19
ATOM	50463	CB	SER	S	38	249.401	106.186	32.461	1.00 94.46	SS19
ATOM	50464	OG	SER	S	38	249.039	104.823	32.345	1.00 94.46	SS19
ATOM	50465	C	SER	S	38	250.428	106.508	30.215	1.00120.80	SS19
ATOM	50466	O	SER	S	38	250.349	105.538	29.460	1.00120.80	SS19
ATOM	50467	N	THR	S	39	251.511	107.276	30.322	1.00 87.14	SS19
ATOM	50468	CA	THR	S	39	252.739	107.053	29.562	1.00 87.14	SS19
ATOM	50469	CB	THR	S	39	253.632	108.308	29.566	1.00103.42	SS19
ATOM	50470	OG1	THR	S	39	252.918	109.419	29.005	1.00103.42	SS19
ATOM	50471	CG2	THR	S	39	254.908	108.051	28.782	1.00103.42	SS19
ATOM	50472	C	THR	S	39	253.517	105.952	30.266	1.00 87.14	SS19
ATOM	50473	O	THR	S	39	253.608	105.963	31.491	1.00 87.14	SS19
ATOM	50474	N	ILE	S	40	254.086	105.008	29.518	1.00 85.65	SS19
ATOM	50475	CA	ILE	S	40	254.844	103.938	30.166	1.00 85.65	SS19
ATOM	50476	CB	ILE	S	40	254.946	102.650	29.301	1.00 69.88	SS19
ATOM	50477	CG2	ILE	S	40	255.929	101.666	29.941	1.00 69.88	SS19
ATOM	50478	CG1	ILE	S	40	253.578	101.975	29.190	1.00 69.88	SS19
ATOM	50479	CD1	ILE	S	40	253.627	100.645	28.466	1.00 69.88	SS19
ATOM	50480	C	ILE	S	40	256.253	104.373	30.545	1.00 85.65	SS19
ATOM	50481	O	ILE	S	40	256.985	104.976	29.752	1.00 85.65	SS19
ATOM	50482	N	VAL	S	41	256.611	104.053	31.782	1.00102.68	SS19
ATOM	50483	CA	VAL	S	41	257.911	104.374	32.336	1.00102.68	SS19
ATOM	50484	CB	VAL	S	41	257.747	105.190	33.631	1.00119.91	SS19
ATOM	50485	CG1	VAL	S	41	257.223	106.577	33.298	1.00119.91	SS19
ATOM	50486	CG2	VAL	S	41	256.767	104.492	34.563	1.00119.91	SS19



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ATOM	50487	C	VAL	S	41	258.652	103.064	32.616	1.00102.68	SS19
ATOM	50488	O	VAL	S	41	258.031	102.033	32.890	1.00102.68	SS19
ATOM	50489	N	PRO	S	42	259.993	103.091	32.548	1.00 89.69	SS19
ATOM	50490	CD	PRO	S	42	260.836	104.293	32.411	1.00105.43	SS19
ATOM	50491	CA	PRO	S	42	260.820	101.906	32.788	1.00 89.69	SS19
ATOM	50492	CB	PRO	S	42	262.198	102.503	33.042	1.00105.43	SS19
ATOM	50493	CG	PRO	S	42	262.200	103.699	32.149	1.00105.43	SS19
ATOM	50494	C	PRO	S	42	260.335	101.053	33.952	1.00 89.69	SS19
ATOM	50495	O	PRO	S	42	260.128	99.852	33.804	1.00 89.69	SS19
ATOM	50496	N	GLU	S	43	260.152	101.683	35.107	1.00107.07	SS19
ATOM	50497	CA	GLU	S	43	259.698	100.981	36.301	1.00107.07	SS19
ATOM	50498	CB	GLU	S	43	259.215	101.981	37.359	1.00131.56	SS19
ATOM	50499	CG	GLU	S	43	258.897	103.374	36.833	1.00131.56	SS19
ATOM	50500	CD	GLU	S	43	260.144	104.176	36.483	1.00131.56	SS19
ATOM	50501	OE1	GLU	S	43	261.020	104.319	37.362	1.00131.56	SS19
ATOM	50502	OE2	GLU	S	43	260.248	104.670	35.336	1.00131.56	SS19
ATOM	50503	C	GLU	S	43	258.602	99.954	36.022	1.00107.07	SS19
ATOM	50504	O	GLU	S	43	258.498	98.943	36.718	1.00107.07	SS19
ATOM	50505	N	MET	S	44	257.794	100.201	34.998	1.00135.22	SS19
ATOM	50506	CA	MET	S	44	256.714	99.283	34.661	1.00135.22	SS19
ATOM	50507	CB	MET	S	44	255.678	99.986	33.785	1.00117.21	SS19
ATOM	50508	CG	MET	S	44	255.284	101.351	34.302	1.00117.21	SS19
ATOM	50509	SD	MET	S	44	254.039	102.137	33.283	1.00117.21	SS19
ATOM	50510	CE	MET	S	44	253.059	102.996	34.539	1.00117.21	SS19
ATOM	50511	C	MET	S	44	257.229	98.043	33.943	1.00135.22	SS19
ATOM	50512	O	MET	S	44	256.646	96.968	34.070	1.00135.22	SS19
ATOM	50513	N	VAL	S	45	258.323	98.194	33.197	1.00 79.82	SS19
ATOM	50514	CA	VAL	S	45	258.904	97.082	32.446	1.00 79.82	SS19
ATOM	50515	CB	VAL	S	45	260.387	97.352	32.059	1.00 58.27	SS19
ATOM	50516	CG1	VAL	S	45	260.916	96.203	31.207	1.00 58.27	SS19
ATOM	50517	CG2	VAL	S	45	260.505	98.664	31.290	1.00 58.27	SS19
ATOM	50518	C	VAL	S	45	258.837	95.784	33.243	1.00 79.82	SS19
ATOM	50519	O	VAL	S	45	258.785	95.797	34.474	1.00 79.82	SS19
ATOM	50520	N	GLY	S	46	258.826	94.664	32.530	1.00108.88	SS19
ATOM	50521	CA	GLY	S	46	258.762	93.375	33.186	1.00108.88	SS19
ATOM	50522	C	GLY	S	46	257.387	93.068	33.753	1.00108.88	SS19
ATOM	50523	O	GLY	S	46	257.003	91.901	33.848	1.00108.88	SS19
ATOM	50524	N	HIS	S	47	256.642	94.105	34.130	1.00116.10	SS19
ATOM	50525	CA	HIS	S	47	255.305	93.916	34.690	1.00116.10	SS19
ATOM	50526	CB	HIS	S	47	254.865	95.164	35.458	1.00123.54	SS19
ATOM	50527	CG	HIS	S	47	255.518	95.313	36.796	1.00123.54	SS19
ATOM	50528	CD2	HIS	S	47	256.357	96.259	37.281	1.00123.54	SS19
ATOM	50529	ND1	HIS	S	47	255.327	94.410	37.821	1.00123.54	SS19
ATOM	50530	CE1	HIS	S	47	256.019	94.796	38.879	1.00123.54	SS19
ATOM	50531	NE2	HIS	S	47	256.653	95.915	38.577	1.00123.54	SS19
ATOM	50532	C	HIS	S	47	254.263	93.588	33.630	1.00116.10	SS19
ATOM	50533	O	HIS	S	47	254.513	93.712	32.433	1.00116.10	SS19
ATOM	50534	N	THR	S	48	253.092	93.161	34.082	1.00114.16	SS19
ATOM	50535	CA	THR	S	48	251.998	92.825	33.182	1.00114.16	SS19
ATOM	50536	CB	THR	S	48	251.653	91.325	33.260	1.00 93.63	SS19
ATOM	50537	OG1	THR	S	48	252.757	90.555	32.773	1.00 93.63	SS19
ATOM	50538	CG2	THR	S	48	250.419	91.014	32.434	1.00 93.63	SS19
ATOM	50539	C	THR	S	48	250.776	93.642	33.581	1.00114.16	SS19
ATOM	50540	O	THR	S	48	250.093	93.326	34.555	1.00114.16	SS19
ATOM	50541	N	ILE	S	49	250.505	94.699	32.828	1.00126.64	SS19
ATOM	50542	CA	ILE	S	49	249.371	95.562	33.118	1.00126.64	SS19
ATOM	50543	CB	ILE	S	49	249.767	97.018	33.036	1.00 82.13	SS19
ATOM	50544	CG2	ILE	S	49	248.562	97.890	33.356	1.00 82.13	SS19
ATOM	50545	CG1	ILE	S	49	250.953	97.274	33.964	1.00 82.13	SS19
ATOM	50546	CD1	ILE	S	49	251.599	98.637	33.770	1.00 82.13	SS19
ATOM	50547	C	ILE	S	49	248.240	95.360	32.132	1.00126.64	SS19
ATOM	50548	O	ILE	S	49	248.304	95.854	31.008	1.00126.64	SS19
ATOM	50549	N	ALA	S	50	247.202	94.647	32.550	1.00135.54	SS19
ATOM	50550	CA	ALA	S	50	246.063	94.408	31.675	1.00135.54	SS19
ATOM	50551	CB	ALA	S	50	245.126	93.379	32.300	1.00 80.40	SS19
ATOM	50552	C	ALA	S	50	245.339	95.733	31.451	1.00135.54	SS19
ATOM	50553	O	ALA	S	50	245.047	96.458	32.406	1.00135.54	SS19
ATOM	50554	N	VAL	S	51	245.068	96.053	30.187	1.00 70.92	SS19
ATOM	50555	CA	VAL	S	51	244.388	97.300	29.850	1.00 70.92	SS19
ATOM	50556	CB	VAL	S	51	245.078	98.035	28.668	1.00 92.76	SS19
ATOM	50557	CG1	VAL	S	51	244.480	99.423	28.503	1.00 92.76	SS19
ATOM	50558	CG2	VAL	S	51	246.575	98.144	28.912	1.00 92.76	SS19
ATOM	50559	C	VAL	S	51	242.918	97.071	29.500	1.00 70.92	SS19
ATOM	50560	O	VAL	S	51	242.513	95.973	29.100	1.00 70.92	SS19
ATOM	50561	N	TYR	S	52	242.129	98.129	29.657	1.00116.21	SS19
ATOM	50562	CA	TYR	S	52	240.700	98.077	29.392	1.00116.21	SS19
ATOM	50563	CB	TYR	S	52	239.961	98.936	30.438	1.00 78.36	SS19



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ATOM	50564	CG	TYR	S	52	238.477	98.627	30.604	1.00	78.36	SS19
ATOM	50565	CD1	TYR	S	52	238.038	97.324	30.888	1.00	78.36	SS19
ATOM	50566	CE1	TYR	S	52	236.679	97.028	31.012	1.00	78.36	SS19
ATOM	50567	CD2	TYR	S	52	237.510	99.635	30.457	1.00	78.36	SS19
ATOM	50568	CE2	TYR	S	52	236.145	99.350	30.583	1.00	78.36	SS19
ATOM	50569	CZ	TYR	S	52	235.737	98.042	30.857	1.00	78.36	SS19
ATOM	50570	OH	TYR	S	52	234.394	97.747	30.949	1.00	78.36	SS19
ATOM	50571	C	TYR	S	52	240.388	98.551	27.970	1.00	116.21	SS19
ATOM	50572	O	TYR	S	52	240.790	99.644	27.568	1.00	116.21	SS19
ATOM	50573	N	ASN	S	53	239.682	97.709	27.214	1.00	75.91	SS19
ATOM	50574	CA	ASN	S	53	239.297	98.024	25.843	1.00	75.91	SS19
ATOM	50575	CB	ASN	S	53	238.932	96.756	25.087	1.00	99.73	SS19
ATOM	50576	CG	ASN	S	53	240.042	95.754	25.075	1.00	99.73	SS19
ATOM	50577	OD1	ASN	S	53	239.962	94.739	24.387	1.00	99.73	SS19
ATOM	50578	ND2	ASN	S	53	241.095	96.023	25.840	1.00	99.73	SS19
ATOM	50579	C	ASN	S	53	238.071	98.907	25.864	1.00	75.91	SS19
ATOM	50580	O	ASN	S	53	237.715	99.531	24.867	1.00	75.91	SS19
ATOM	50581	N	GLY	S	54	237.432	98.954	27.022	1.00	66.40	SS19
ATOM	50582	CA	GLY	S	54	236.211	99.714	27.174	1.00	66.40	SS19
ATOM	50583	C	GLY	S	54	235.218	98.597	27.380	1.00	66.40	SS19
ATOM	50584	O	GLY	S	54	234.029	98.797	27.635	1.00	66.40	SS19
ATOM	50585	N	LYS	S	55	235.747	97.385	27.272	1.00	84.08	SS19
ATOM	50586	CA	LYS	S	55	234.943	96.204	27.448	1.00	84.08	SS19
ATOM	50587	CB	LYS	S	55	234.501	95.664	26.089	1.00	104.99	SS19
ATOM	50588	CG	LYS	S	55	233.586	94.465	26.195	1.00	104.99	SS19
ATOM	50589	CD	LYS	S	55	233.260	93.888	24.838	1.00	104.99	SS19
ATOM	50590	CE	LYS	S	55	232.420	92.635	24.984	1.00	104.99	SS19
ATOM	50591	NZ	LYS	S	55	232.190	91.989	23.668	1.00	104.99	SS19
ATOM	50592	C	LYS	S	55	235.724	95.137	28.191	1.00	84.08	SS19
ATOM	50593	O	LYS	S	55	235.179	94.472	29.074	1.00	84.08	SS19
ATOM	50594	N	GLN	S	56	237.002	94.983	27.847	1.00	80.54	SS19
ATOM	50595	CA	GLN	S	56	237.831	93.950	28.467	1.00	80.54	SS19
ATOM	50596	CB	GLN	S	56	238.281	92.933	27.413	1.00	149.82	SS19
ATOM	50597	CG	GLN	S	56	237.152	92.298	26.643	1.00	149.82	SS19
ATOM	50598	CD	GLN	S	56	236.096	91.730	27.560	1.00	149.82	SS19
ATOM	50599	OE1	GLN	S	56	236.405	90.957	28.465	1.00	149.82	SS19
ATOM	50600	NE2	GLN	S	56	234.840	92.109	27.335	1.00	149.82	SS19
ATOM	50601	C	GLN	S	56	239.065	94.460	29.179	1.00	80.54	SS19
ATOM	50602	O	GLN	S	56	239.367	95.649	29.163	1.00	80.54	SS19
ATOM	50603	N	HIS	S	57	239.776	93.525	29.802	1.00	95.23	SS19
ATOM	50604	CA	HIS	S	57	241.015	93.814	30.507	1.00	95.23	SS19
ATOM	50605	CB	HIS	S	57	240.866	93.526	32.002	1.00	97.42	SS19
ATOM	50606	CG	HIS	S	57	240.567	94.747	32.814	1.00	97.42	SS19
ATOM	50607	CD2	HIS	S	57	239.441	95.141	33.454	1.00	97.42	SS19
ATOM	50608	ND1	HIS	S	57	241.484	95.762	32.993	1.00	97.42	SS19
ATOM	50609	CE1	HIS	S	57	240.936	96.730	33.705	1.00	97.42	SS19
ATOM	50610	NE2	HIS	S	57	239.696	96.378	33.997	1.00	97.42	SS19
ATOM	50611	C	HIS	S	57	242.088	92.935	29.888	1.00	95.23	SS19
ATOM	50612	O	HIS	S	57	242.374	91.835	30.364	1.00	95.23	SS19
ATOM	50613	N	VAL	S	58	242.667	93.435	28.802	1.00	103.44	SS19
ATOM	50614	CA	VAL	S	58	243.695	92.714	28.072	1.00	103.44	SS19
ATOM	50615	CB	VAL	S	58	243.767	93.177	26.608	1.00	93.14	SS19
ATOM	50616	CG1	VAL	S	58	242.498	92.770	25.882	1.00	93.14	SS19
ATOM	50617	CG2	VAL	S	58	243.959	94.687	26.544	1.00	93.14	SS19
ATOM	50618	C	VAL	S	58	245.076	92.847	28.674	1.00	103.44	SS19
ATOM	50619	O	VAL	S	58	245.591	93.948	28.851	1.00	103.44	SS19
ATOM	50620	N	PRO	S	59	245.698	91.711	28.992	1.00	84.36	SS19
ATOM	50621	CD	PRO	S	59	245.143	90.358	28.815	1.00	77.20	SS19
ATOM	50622	CA	PRO	S	59	247.035	91.652	29.578	1.00	84.36	SS19
ATOM	50623	CB	PRO	S	59	247.157	90.185	29.967	1.00	77.20	SS19
ATOM	50624	CG	PRO	S	59	246.377	89.503	28.881	1.00	77.20	SS19
ATOM	50625	C	PRO	S	59	248.117	92.083	28.579	1.00	84.36	SS19
ATOM	50626	O	PRO	S	59	248.217	91.528	27.483	1.00	84.36	SS19
ATOM	50627	N	VAL	S	60	248.922	93.069	28.963	1.00	128.84	SS19
ATOM	50628	CA	VAL	S	60	249.997	93.571	28.106	1.00	128.84	SS19
ATOM	50629	CB	VAL	S	60	249.787	95.068	27.752	1.00	73.75	SS19
ATOM	50630	CG1	VAL	S	60	250.684	95.467	26.587	1.00	73.75	SS19
ATOM	50631	CG2	VAL	S	60	248.337	95.332	27.431	1.00	73.75	SS19
ATOM	50632	C	VAL	S	60	251.343	93.447	28.827	1.00	128.84	SS19
ATOM	50633	O	VAL	S	60	251.520	94.015	29.907	1.00	128.84	SS19
ATOM	50634	N	TYR	S	61	252.286	92.707	28.242	1.00	129.29	SS19
ATOM	50635	CA	TYR	S	61	253.611	92.556	28.848	1.00	129.29	SS19
ATOM	50636	CB	TYR	S	61	254.280	91.257	28.396	1.00	143.15	SS19
ATOM	50637	CG	TYR	S	61	255.597	90.986	29.093	1.00	143.15	SS19
ATOM	50638	CD1	TYR	S	61	255.676	90.080	30.150	1.00	143.15	SS19
ATOM	50639	CE1	TYR	S	61	256.882	89.851	30.813	1.00	143.15	SS19
ATOM	50640	CD2	TYR	S	61	256.759	91.659	28.716	1.00	143.15	SS19



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ATOM	50641	CE2	TYR	S	61	257.966	91.441	29.372	1.00143.15	SS19
ATOM	50642	CZ	TYR	S	61	258.021	90.537	30.419	1.00143.15	SS19
ATOM	50643	OH	TYR	S	61	259.214	90.324	31.070	1.00143.15	SS19
ATOM	50644	C	TYR	S	61	254.468	93.743	28.414	1.00129.29	SS19
ATOM	50645	O	TYR	S	61	254.785	93.891	27.230	1.00129.29	SS19
ATOM	50646	N	ILE	S	62	254.842	94.583	29.374	1.00141.69	SS19
ATOM	50647	CA	ILE	S	62	255.639	95.770	29.091	1.00141.69	SS19
ATOM	50648	CB	ILE	S	62	255.369	96.869	30.160	1.00138.32	SS19
ATOM	50649	CG2	ILE	S	62	255.474	96.282	31.544	1.00138.32	SS19
ATOM	50650	CG1	ILE	S	62	256.339	98.038	29.986	1.00138.32	SS19
ATOM	50651	CD1	ILE	S	62	256.233	98.720	28.644	1.00138.32	SS19
ATOM	50652	C	ILE	S	62	257.141	95.488	28.985	1.00141.69	SS19
ATOM	50653	O	ILE	S	62	257.748	94.919	29.896	1.00141.69	SS19
ATOM	50654	N	THR	S	63	257.724	95.888	27.854	1.00101.79	SS19
ATOM	50655	CA	THR	S	63	259.149	95.697	27.583	1.00101.79	SS19
ATOM	50656	CB	THR	S	63	259.373	94.846	26.330	1.00 99.83	SS19
ATOM	50657	OG1	THR	S	63	258.524	93.696	26.377	1.00 99.83	SS19
ATOM	50658	CG2	THR	S	63	260.830	94.394	26.250	1.00 99.83	SS19
ATOM	50659	C	THR	S	63	259.821	97.041	27.351	1.00101.79	SS19
ATOM	50660	O	THR	S	63	259.173	98.004	26.945	1.00101.79	SS19
ATOM	50661	N	GLU	S	64	261.125	97.097	27.593	1.00110.39	SS19
ATOM	50662	CA	GLU	S	64	261.877	98.334	27.425	1.00110.39	SS19
ATOM	50663	CB	GLU	S	64	263.374	98.065	27.631	1.00156.08	SS19
ATOM	50664	CG	GLU	S	64	264.226	99.321	27.831	1.00156.08	SS19
ATOM	50665	CD	GLU	S	64	264.022	99.971	29.193	1.00156.08	SS19
ATOM	50666	OE1	GLU	S	64	264.312	99.310	30.213	1.00156.08	SS19
ATOM	50667	OE2	GLU	S	64	263.576	101.139	29.246	1.00156.08	SS19
ATOM	50668	C	GLU	S	64	261.649	98.991	26.058	1.00110.39	SS19
ATOM	50669	O	GLU	S	64	261.454	100.206	25.969	1.00110.39	SS19
ATOM	50670	N	ASN	S	65	261.664	98.189	24.997	1.00102.02	SS19
ATOM	50671	CA	ASN	S	65	261.477	98.711	23.644	1.00102.02	SS19
ATOM	50672	CB	ASN	S	65	261.638	97.580	22.617	1.00118.00	SS19
ATOM	50673	CG	ASN	S	65	260.627	96.460	22.808	1.00118.00	SS19
ATOM	50674	OD1	ASN	S	65	260.288	96.095	23.933	1.00118.00	SS19
ATOM	50675	ND2	ASN	S	65	260.154	95.897	21.703	1.00118.00	SS19
ATOM	50676	C	ASN	S	65	260.138	99.420	23.441	1.00102.02	SS19
ATOM	50677	O	ASN	S	65	259.960	100.151	22.467	1.00102.02	SS19
ATOM	50678	N	MET	S	66	259.204	99.213	24.363	1.00109.50	SS19
ATOM	50679	CA	MET	S	66	257.889	99.839	24.272	1.00109.50	SS19
ATOM	50680	CB	MET	S	66	256.795	98.763	24.187	1.00 98.25	SS19
ATOM	50681	CG	MET	S	66	256.767	97.778	25.357	1.00 98.25	SS19
ATOM	50682	SD	MET	S	66	255.337	96.646	25.359	1.00 98.25	SS19
ATOM	50683	CE	MET	S	66	255.950	95.268	24.309	1.00 98.25	SS19
ATOM	50684	C	MET	S	66	257.624	100.731	25.477	1.00109.50	SS19
ATOM	50685	O	MET	S	66	256.567	100.633	26.097	1.00109.50	SS19
ATOM	50686	N	VAL	S	67	258.565	101.610	25.805	1.00 90.29	SS19
ATOM	50687	CA	VAL	S	67	258.385	102.468	26.970	1.00 90.29	SS19
ATOM	50688	CB	VAL	S	67	259.745	102.836	27.609	1.00110.63	SS19
ATOM	50689	CG1	VAL	S	67	259.552	103.895	28.691	1.00110.63	SS19
ATOM	50690	CG2	VAL	S	67	260.371	101.592	28.228	1.00110.63	SS19
ATOM	50691	C	VAL	S	67	257.570	103.738	26.749	1.00 90.29	SS19
ATOM	50692	O	VAL	S	67	256.381	103.763	27.048	1.00 90.29	SS19
ATOM	50693	N	GLY	S	68	258.201	104.789	26.239	1.00117.95	SS19
ATOM	50694	CA	GLY	S	68	257.500	106.046	26.017	1.00117.95	SS19
ATOM	50695	C	GLY	S	68	256.030	105.986	25.610	1.00117.95	SS19
ATOM	50696	O	GLY	S	68	255.277	106.929	25.861	1.00117.95	SS19
ATOM	50697	N	HIS	S	69	255.619	104.887	24.983	1.00 94.86	SS19
ATOM	50698	CA	HIS	S	69	254.240	104.712	24.532	1.00 94.86	SS19
ATOM	50699	CB	HIS	S	69	254.093	103.354	23.855	1.00104.86	SS19
ATOM	50700	CG	HIS	S	69	254.997	103.171	22.676	1.00104.86	SS19
ATOM	50701	CD2	HIS	S	69	255.935	102.231	22.410	1.00104.86	SS19
ATOM	50702	ND1	HIS	S	69	254.994	104.028	21.596	1.00104.86	SS19
ATOM	50703	CE1	HIS	S	69	255.891	103.624	20.716	1.00104.86	SS19
ATOM	50704	NE2	HIS	S	69	256.476	102.536	21.185	1.00104.86	SS19
ATOM	50705	C	HIS	S	69	253.233	104.829	25.664	1.00 94.86	SS19
ATOM	50706	O	HIS	S	69	253.579	105.254	26.762	1.00 94.86	SS19
ATOM	50707	N	LYS	S	70	251.985	104.456	25.393	1.00 95.04	SS19
ATOM	50708	CA	LYS	S	70	250.928	104.523	26.403	1.00 95.04	SS19
ATOM	50709	CB	LYS	S	70	250.122	105.816	26.225	1.00 60.38	SS19
ATOM	50710	CG	LYS	S	70	251.043	107.026	26.130	1.00 60.38	SS19
ATOM	50711	CD	LYS	S	70	250.349	108.373	26.121	1.00 60.38	SS19
ATOM	50712	CE	LYS	S	70	251.414	109.461	25.947	1.00 60.38	SS19
ATOM	50713	NZ	LYS	S	70	250.881	110.842	25.862	1.00 60.38	SS19
ATOM	50714	C	LYS	S	70	250.022	103.298	26.332	1.00 95.04	SS19
ATOM	50715	O	LYS	S	70	249.358	103.064	25.328	1.00 95.04	SS19
ATOM	50716	N	LEU	S	71	250.019	102.522	27.413	1.00107.05	SS19
ATOM	50717	CA	LEU	S	71	249.238	101.290	27.534	1.00107.05	SS19



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ATOM	50718	CB	LEU	S	71	248.690	101.179	28.951	1.00	78.84	SS19
ATOM	50719	CG	LEU	S	71	249.762	101.263	30.038	1.00	78.84	SS19
ATOM	50720	CD1	LEU	S	71	249.088	101.315	31.386	1.00	78.84	SS19
ATOM	50721	CD2	LEU	S	71	250.698	100.069	29.953	1.00	78.84	SS19
ATOM	50722	C	LEU	S	71	248.103	101.100	26.536	1.00	107.05	SS19
ATOM	50723	O	LEU	S	71	247.970	100.030	25.943	1.00	107.05	SS19
ATOM	50724	N	GLY	S	72	247.282	102.131	26.359	1.00	123.14	SS19
ATOM	50725	CA	GLY	S	72	246.175	102.043	25.422	1.00	123.14	SS19
ATOM	50726	C	GLY	S	72	246.619	101.638	24.027	1.00	123.14	SS19
ATOM	50727	O	GLY	S	72	245.875	100.984	23.295	1.00	123.14	SS19
ATOM	50728	N	GLU	S	73	247.832	102.033	23.655	1.00	78.39	SS19
ATOM	50729	CA	GLU	S	73	248.378	101.701	22.348	1.00	78.39	SS19
ATOM	50730	CB	GLU	S	73	249.753	102.335	22.148	1.00	87.00	SS19
ATOM	50731	CG	GLU	S	73	249.761	103.840	22.067	1.00	87.00	SS19
ATOM	50732	CD	GLU	S	73	251.168	104.400	21.983	1.00	87.00	SS19
ATOM	50733	OE1	GLU	S	73	251.932	103.931	21.110	1.00	87.00	SS19
ATOM	50734	OE2	GLU	S	73	251.511	105.307	22.782	1.00	87.00	SS19
ATOM	50735	C	GLU	S	73	248.540	100.202	22.240	1.00	78.39	SS19
ATOM	50736	O	GLU	S	73	248.736	99.677	21.149	1.00	78.39	SS19
ATOM	50737	N	PHE	S	74	248.461	99.509	23.369	1.00	80.36	SS19
ATOM	50738	CA	PHE	S	74	248.647	98.063	23.368	1.00	80.36	SS19
ATOM	50739	CB	PHE	S	74	249.770	97.705	24.343	1.00	88.14	SS19
ATOM	50740	CG	PHE	S	74	251.045	98.451	24.067	1.00	88.14	SS19
ATOM	50741	CD1	PHE	S	74	251.106	99.834	24.239	1.00	88.14	SS19
ATOM	50742	CD2	PHE	S	74	252.162	97.788	23.566	1.00	88.14	SS19
ATOM	50743	CE1	PHE	S	74	252.255	100.545	23.913	1.00	88.14	SS19
ATOM	50744	CE2	PHE	S	74	253.321	98.494	23.236	1.00	88.14	SS19
ATOM	50745	CZ	PHE	S	74	253.366	99.875	23.409	1.00	88.14	SS19
ATOM	50746	C	PHE	S	74	247.373	97.302	23.685	1.00	80.36	SS19
ATOM	50747	O	PHE	S	74	247.367	96.075	23.813	1.00	80.36	SS19
ATOM	50748	N	ALA	S	75	246.289	98.054	23.804	1.00	101.32	SS19
ATOM	50749	CA	ALA	S	75	244.986	97.486	24.072	1.00	101.32	SS19
ATOM	50750	CB	ALA	S	75	244.437	98.014	25.380	1.00	154.74	SS19
ATOM	50751	C	ALA	S	75	244.133	97.955	22.913	1.00	101.32	SS19
ATOM	50752	O	ALA	S	75	243.550	99.038	22.953	1.00	101.32	SS19
ATOM	50753	N	PRO	S	76	244.068	97.150	21.847	1.00	100.27	SS19
ATOM	50754	CD	PRO	S	76	244.434	95.723	21.811	1.00	106.53	SS19
ATOM	50755	CA	PRO	S	76	243.267	97.522	20.679	1.00	100.27	SS19
ATOM	50756	CB	PRO	S	76	243.341	96.272	19.810	1.00	106.53	SS19
ATOM	50757	CG	PRO	S	76	243.432	95.162	20.839	1.00	106.53	SS19
ATOM	50758	C	PRO	S	76	241.847	97.853	21.145	1.00	100.27	SS19
ATOM	50759	O	PRO	S	76	241.308	97.183	22.031	1.00	100.27	SS19
ATOM	50760	N	THR	S	77	241.242	98.879	20.556	1.00	93.59	SS19
ATOM	50761	CA	THR	S	77	239.909	99.285	20.977	1.00	93.59	SS19
ATOM	50762	CB	THR	S	77	239.873	100.797	21.238	1.00	81.95	SS19
ATOM	50763	OG1	THR	S	77	239.282	101.038	22.519	1.00	81.95	SS19
ATOM	50764	CG2	THR	S	77	239.075	101.508	20.172	1.00	81.95	SS19
ATOM	50765	C	THR	S	77	238.741	98.909	20.065	1.00	93.59	SS19
ATOM	50766	O	THR	S	77	237.644	98.658	20.553	1.00	93.59	SS19
ATOM	50767	N	ARG	S	78	238.956	98.885	18.752	1.00	87.28	SS19
ATOM	50768	CA	ARG	S	78	237.879	98.519	17.829	1.00	87.28	SS19
ATOM	50769	CB	ARG	S	78	237.758	99.540	16.703	1.00	96.90	SS19
ATOM	50770	CG	ARG	S	78	237.236	100.857	17.171	1.00	96.90	SS19
ATOM	50771	CD	ARG	S	78	237.261	101.882	16.086	1.00	96.90	SS19
ATOM	50772	NE	ARG	S	78	237.281	103.206	16.684	1.00	96.90	SS19
ATOM	50773	CZ	ARG	S	78	237.350	104.336	15.996	1.00	96.90	SS19
ATOM	50774	NH1	ARG	S	78	237.401	104.310	14.671	1.00	96.90	SS19
ATOM	50775	NH2	ARG	S	78	237.379	105.494	16.632	1.00	96.90	SS19
ATOM	50776	C	ARG	S	78	238.104	97.149	17.222	1.00	87.28	SS19
ATOM	50777	O	ARG	S	78	239.228	96.651	17.203	1.00	87.28	SS19
ATOM	50778	N	THR	S	79	237.031	96.539	16.729	1.00	76.75	SS19
ATOM	50779	CA	THR	S	79	237.127	95.227	16.099	1.00	76.75	SS19
ATOM	50780	CB	THR	S	79	236.156	94.243	16.760	1.00	85.31	SS19
ATOM	50781	OG1	THR	S	79	236.358	94.253	18.183	1.00	85.31	SS19
ATOM	50782	CG2	THR	S	79	236.388	92.843	16.223	1.00	85.31	SS19
ATOM	50783	C	THR	S	79	236.799	95.366	14.603	1.00	76.75	SS19
ATOM	50784	O	THR	S	79	235.738	95.885	14.236	1.00	76.75	SS19
ATOM	50785	N	TYR	S	80	237.716	94.922	13.745	1.00	104.93	SS19
ATOM	50786	CA	TYR	S	80	237.526	95.013	12.293	1.00	104.93	SS19
ATOM	50787	CB	TYR	S	80	238.424	96.122	11.716	1.00	117.53	SS19
ATOM	50788	CG	TYR	S	80	238.433	96.159	10.203	1.00	117.53	SS19
ATOM	50789	CD1	TYR	S	80	237.363	96.699	9.492	1.00	117.53	SS19
ATOM	50790	CE1	TYR	S	80	237.313	96.629	8.096	1.00	117.53	SS19
ATOM	50791	CD2	TYR	S	80	239.464	95.558	9.482	1.00	117.53	SS19
ATOM	50792	CE2	TYR	S	80	239.422	95.480	8.088	1.00	117.53	SS19
ATOM	50793	CZ	TYR	S	80	238.343	96.012	7.404	1.00	117.53	SS19
ATOM	50794	OH	TYR	S	80	238.281	95.894	6.032	1.00	117.53	SS19



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ATOM	50795	C	TYR	S	80	237.825	93.686	11.576	1.00104.93	SS19
ATOM	50796	O	TYR	S	80	238.462	92.796	12.144	1.00104.93	SS19
ATOM	50797	N	ARG	S	81	237.364	93.560	10.331	1.00128.34	SS19
ATOM	50798	CA	ARG	S	81	237.603	92.351	9.551	1.00128.34	SS19
ATOM	50799	CB	ARG	S	81	239.078	92.289	9.139	1.00164.17	SS19
ATOM	50800	CG	ARG	S	81	239.552	90.993	8.483	1.00164.17	SS19
ATOM	50801	CD	ARG	S	81	241.045	91.100	8.144	1.00164.17	SS19
ATOM	50802	NE	ARG	S	81	241.655	89.841	7.713	1.00164.17	SS19
ATOM	50803	CZ	ARG	S	81	241.900	88.807	8.514	1.00164.17	SS19
ATOM	50804	NH1	ARG	S	81	241.588	88.870	9.800	1.00164.17	SS19
ATOM	50805	NH2	ARG	S	81	242.462	87.707	8.029	1.00164.17	SS19
ATOM	50806	C	ARG	S	81	237.240	91.160	10.421	1.00128.34	SS19
ATOM	50807	O	ARG	S	81	238.157	90.421	10.836	1.00128.34	SS19
ATOM	50808	OXT	ARG	S	81	236.035	91.003	10.701	1.00193.14	SS19
TER	50808		ARG	S	81					SS19
ATOM	50809	CB	ARG	T	8	132.091	42.385	9.387	1.00134.63	TS20
ATOM	50810	CG	ARG	T	8	133.581	42.290	9.563	1.00134.63	TS20
ATOM	50811	CD	ARG	T	8	134.015	40.868	9.356	1.00134.63	TS20
ATOM	50812	NE	ARG	T	8	135.230	40.575	10.101	1.00134.63	TS20
ATOM	50813	CZ	ARG	T	8	135.679	39.346	10.338	1.00134.63	TS20
ATOM	50814	NH1	ARG	T	8	135.005	38.295	9.885	1.00134.63	TS20
ATOM	50815	NH2	ARG	T	8	136.797	39.165	11.034	1.00134.63	TS20
ATOM	50816	C	ARG	T	8	129.988	43.500	10.027	1.00114.21	TS20
ATOM	50817	O	ARG	T	8	129.429	43.858	11.061	1.00114.21	TS20
ATOM	50818	N	ARG	T	8	132.082	44.176	11.102	1.00114.21	TS20
ATOM	50819	CA	ARG	T	8	131.476	43.715	9.821	1.00114.21	TS20
ATOM	50820	N	ASN	T	9	129.355	42.904	9.028	1.00 84.50	TS20
ATOM	50821	CA	ASN	T	9	127.940	42.598	9.090	1.00 84.50	TS20
ATOM	50822	CB	ASN	T	9	127.703	41.481	10.104	1.00198.94	TS20
ATOM	50823	CG	ASN	T	9	128.371	40.189	9.701	1.00198.94	TS20
ATOM	50824	OD1	ASN	T	9	128.059	39.617	8.655	1.00198.94	TS20
ATOM	50825	ND2	ASN	T	9	129.300	39.722	10.526	1.00198.94	TS20
ATOM	50826	C	ASN	T	9	127.011	43.761	9.402	1.00 84.50	TS20
ATOM	50827	O	ASN	T	9	126.739	44.071	10.564	1.00 84.50	TS20
ATOM	50828	N	LEU	T	10	126.533	44.403	8.344	1.00 68.69	TS20
ATOM	50829	CA	LEU	T	10	125.582	45.488	8.464	1.00 68.69	TS20
ATOM	50830	CB	LEU	T	10	125.980	46.648	7.555	1.00144.58	TS20
ATOM	50831	CG	LEU	T	10	125.468	48.026	7.976	1.00144.58	TS20
ATOM	50832	CD1	LEU	T	10	123.936	48.042	8.084	1.00144.58	TS20
ATOM	50833	CD2	LEU	T	10	126.118	48.379	9.308	1.00144.58	TS20
ATOM	50834	C	LEU	T	10	124.336	44.790	7.926	1.00 68.69	TS20
ATOM	50835	O	LEU	T	10	124.157	44.678	6.719	1.00 68.69	TS20
ATOM	50836	N	SER	T	11	123.493	44.291	8.821	1.00 56.55	TS20
ATOM	50837	CA	SER	T	11	122.302	43.563	8.412	1.00 56.55	TS20
ATOM	50838	CB	SER	T	11	121.378	43.335	9.604	1.00 66.02	TS20
ATOM	50839	OG	SER	T	11	121.960	42.396	10.492	1.00 66.02	TS20
ATOM	50840	C	SER	T	11	121.538	44.172	7.258	1.00 56.55	TS20
ATOM	50841	O	SER	T	11	120.713	43.490	6.656	1.00 56.55	TS20
ATOM	50842	N	ALA	T	12	121.799	45.441	6.950	1.00 59.10	TS20
ATOM	50843	CA	ALA	T	12	121.164	46.091	5.806	1.00 59.10	TS20
ATOM	50844	CB	ALA	T	12	121.388	47.583	5.873	1.00 65.33	TS20
ATOM	50845	C	ALA	T	12	121.797	45.488	4.517	1.00 59.10	TS20
ATOM	50846	O	ALA	T	12	121.911	46.125	3.473	1.00 59.10	TS20
ATOM	50847	N	LEU	T	13	122.240	44.240	4.640	1.00 74.93	TS20
ATOM	50848	CA	LEU	T	13	122.808	43.471	3.541	1.00 74.93	TS20
ATOM	50849	CB	LEU	T	13	123.500	42.230	4.097	1.00 43.66	TS20
ATOM	50850	CG	LEU	T	13	125.034	42.275	4.208	1.00 43.66	TS20
ATOM	50851	CD1	LEU	T	13	125.525	41.454	5.412	1.00 43.66	TS20
ATOM	50852	CD2	LEU	T	13	125.651	41.770	2.881	1.00 43.66	TS20
ATOM	50853	C	LEU	T	13	121.550	43.049	2.821	1.00 74.93	TS20
ATOM	50854	O	LEU	T	13	121.530	42.776	1.621	1.00 74.93	TS20
ATOM	50855	N	LYS	T	14	120.500	43.001	3.631	1.00 49.84	TS20
ATOM	50856	CA	LYS	T	14	119.151	42.639	3.240	1.00 49.84	TS20
ATOM	50857	CB	LYS	T	14	118.178	43.050	4.366	1.00 66.83	TS20
ATOM	50858	CG	LYS	T	14	116.709	42.582	4.237	1.00 66.83	TS20
ATOM	50859	CD	LYS	T	14	115.901	42.936	5.507	1.00 66.83	TS20
ATOM	50860	CE	LYS	T	14	114.469	42.361	5.490	1.00 66.83	TS20
ATOM	50861	NZ	LYS	T	14	113.777	42.381	6.836	1.00 66.83	TS20
ATOM	50862	C	LYS	T	14	118.787	43.334	1.945	1.00 49.84	TS20
ATOM	50863	O	LYS	T	14	118.205	42.728	1.046	1.00 49.84	TS20
ATOM	50864	N	ARG	T	15	119.145	44.611	1.848	1.00 56.50	TS20
ATOM	50865	CA	ARG	T	15	118.819	45.385	0.652	1.00 56.50	TS20
ATOM	50866	CB	ARG	T	15	119.285	46.834	0.823	1.00 53.23	TS20
ATOM	50867	CG	ARG	T	15	118.366	47.696	1.720	1.00 53.23	TS20
ATOM	50868	CD	ARG	T	15	117.062	48.083	1.010	1.00 53.23	TS20
ATOM	50869	NE	ARG	T	15	116.392	49.209	1.668	1.00 53.23	TS20
ATOM	50870	CZ	ARG	T	15	115.290	49.806	1.214	1.00 53.23	TS20



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ATOM	50871	NH1	ARG	T	15	114.715	49.395	0.084	1.00	53.23	TS20
ATOM	50872	NH2	ARG	T	15	114.751	50.806	1.900	1.00	53.23	TS20
ATOM	50873	C	ARG	T	15	119.392	44.765	-0.620	1.00	56.50	TS20
ATOM	50874	O	ARG	T	15	118.686	44.598	-1.623	1.00	56.50	TS20
ATOM	50875	N	HIS	T	16	120.665	44.404	-0.587	1.00	49.34	TS20
ATOM	50876	CA	HIS	T	16	121.228	43.786	-1.766	1.00	49.34	TS20
ATOM	50877	CB	HIS	T	16	122.663	43.367	-1.521	1.00	75.40	TS20
ATOM	50878	CG	HIS	T	16	123.361	42.927	-2.763	1.00	75.40	TS20
ATOM	50879	CD2	HIS	T	16	124.209	43.586	-3.586	1.00	75.40	TS20
ATOM	50880	ND1	HIS	T	16	123.181	41.678	-3.315	1.00	75.40	TS20
ATOM	50881	CE1	HIS	T	16	123.893	41.584	-4.423	1.00	75.40	TS20
ATOM	50882	NE2	HIS	T	16	124.527	42.728	-4.610	1.00	75.40	TS20
ATOM	50883	C	HIS	T	16	120.364	42.568	-2.052	1.00	49.34	TS20
ATOM	50884	O	HIS	T	16	119.944	42.341	-3.187	1.00	49.34	TS20
ATOM	50885	N	ARG	T	17	120.088	41.801	-0.999	1.00	48.89	TS20
ATOM	50886	CA	ARG	T	17	119.254	40.609	-1.090	1.00	48.89	TS20
ATOM	50887	CB	ARG	T	17	118.843	40.170	0.315	1.00	68.11	TS20
ATOM	50888	CG	ARG	T	17	119.445	38.860	0.787	1.00	68.11	TS20
ATOM	50889	CD	ARG	T	17	119.035	38.571	2.230	1.00	68.11	TS20
ATOM	50890	NE	ARG	T	17	119.818	39.340	3.195	1.00	68.11	TS20
ATOM	50891	CZ	ARG	T	17	119.408	39.643	4.426	1.00	68.11	TS20
ATOM	50892	NH1	ARG	T	17	118.209	39.245	4.849	1.00	68.11	TS20
ATOM	50893	NH2	ARG	T	17	120.205	40.343	5.240	1.00	68.11	TS20
ATOM	50894	C	ARG	T	17	117.997	40.886	-1.924	1.00	48.89	TS20
ATOM	50895	O	ARG	T	17	117.727	40.216	-2.927	1.00	48.89	TS20
ATOM	50896	N	GLN	T	18	117.231	41.883	-1.499	1.00	44.06	TS20
ATOM	50897	CA	GLN	T	18	116.005	42.248	-2.191	1.00	44.06	TS20
ATOM	50898	CB	GLN	T	18	115.293	43.349	-1.422	1.00	58.19	TS20
ATOM	50899	CG	GLN	T	18	115.783	43.444	0.001	1.00	58.19	TS20
ATOM	50900	CD	GLN	T	18	114.683	43.748	0.974	1.00	58.19	TS20
ATOM	50901	OE1	GLN	T	18	114.103	44.834	0.958	1.00	58.19	TS20
ATOM	50902	NE2	GLN	T	18	114.378	42.782	1.833	1.00	58.19	TS20
ATOM	50903	C	GLN	T	18	116.330	42.722	-3.591	1.00	44.06	TS20
ATOM	50904	O	GLN	T	18	115.764	42.225	-4.569	1.00	44.06	TS20
ATOM	50905	N	SER	T	19	117.258	43.672	-3.685	1.00	47.70	TS20
ATOM	50906	CA	SER	T	19	117.653	44.217	-4.978	1.00	47.70	TS20
ATOM	50907	CB	SER	T	19	119.015	44.892	-4.888	1.00	65.97	TS20
ATOM	50908	OG	SER	T	19	120.039	43.982	-5.235	1.00	65.97	TS20
ATOM	50909	C	SER	T	19	117.726	43.092	-5.998	1.00	47.70	TS20
ATOM	50910	O	SER	T	19	117.113	43.161	-7.061	1.00	47.70	TS20
ATOM	50911	N	LEU	T	20	118.462	42.043	-5.660	1.00	49.01	TS20
ATOM	50912	CA	LEU	T	20	118.595	40.927	-6.567	1.00	49.01	TS20
ATOM	50913	CB	LEU	T	20	119.427	39.832	-5.925	1.00	61.36	TS20
ATOM	50914	CG	LEU	T	20	120.837	40.335	-5.623	1.00	61.36	TS20
ATOM	50915	CD1	LEU	T	20	121.730	39.173	-5.279	1.00	61.36	TS20
ATOM	50916	CD2	LEU	T	20	121.405	41.036	-6.832	1.00	61.36	TS20
ATOM	50917	C	LEU	T	20	117.253	40.383	-7.023	1.00	49.01	TS20
ATOM	50918	O	LEU	T	20	117.024	40.241	-8.228	1.00	49.01	TS20
ATOM	50919	N	LYS	T	21	116.359	40.085	-6.083	1.00	66.58	TS20
ATOM	50920	CA	LYS	T	21	115.054	39.557	-6.466	1.00	66.58	TS20
ATOM	50921	CB	LYS	T	21	114.152	39.370	-5.249	1.00	79.15	TS20
ATOM	50922	CG	LYS	T	21	114.702	38.422	-4.212	1.00	79.15	TS20
ATOM	50923	CD	LYS	T	21	113.730	38.281	-3.052	1.00	79.15	TS20
ATOM	50924	CE	LYS	T	21	114.402	37.649	-1.836	1.00	79.15	TS20
ATOM	50925	NZ	LYS	T	21	113.513	37.633	-0.632	1.00	79.15	TS20
ATOM	50926	C	LYS	T	21	114.397	40.522	-7.437	1.00	66.58	TS20
ATOM	50927	O	LYS	T	21	114.194	40.201	-8.615	1.00	66.58	TS20
ATOM	50928	N	ARG	T	22	114.078	41.710	-6.935	1.00	54.95	TS20
ATOM	50929	CA	ARG	T	22	113.438	42.746	-7.731	1.00	54.95	TS20
ATOM	50930	CB	ARG	T	22	113.579	44.083	-7.019	1.00	90.98	TS20
ATOM	50931	CG	ARG	T	22	112.684	44.199	-5.826	1.00	90.98	TS20
ATOM	50932	CD	ARG	T	22	113.088	45.341	-4.930	1.00	90.98	TS20
ATOM	50933	NE	ARG	T	22	112.030	45.608	-3.967	1.00	90.98	TS20
ATOM	50934	CZ	ARG	T	22	110.893	46.224	-4.274	1.00	90.98	TS20
ATOM	50935	NH1	ARG	T	22	110.684	46.645	-5.519	1.00	90.98	TS20
ATOM	50936	NH2	ARG	T	22	109.952	46.392	-3.347	1.00	90.98	TS20
ATOM	50937	C	ARG	T	22	114.014	42.838	-9.142	1.00	54.95	TS20
ATOM	50938	O	ARG	T	22	113.277	42.984	-10.121	1.00	54.95	TS20
ATOM	50939	N	ARG	T	23	115.334	42.758	-9.246	1.00	47.73	TS20
ATOM	50940	CA	ARG	T	23	115.973	42.820	-10.547	1.00	47.73	TS20
ATOM	50941	CB	ARG	T	23	117.477	42.615	-10.397	1.00	86.34	TS20
ATOM	50942	CG	ARG	T	23	118.220	42.482	-11.705	1.00	86.34	TS20
ATOM	50943	CD	ARG	T	23	119.725	42.450	-11.475	1.00	86.34	TS20
ATOM	50944	NE	ARG	T	23	120.436	41.947	-12.644	1.00	86.34	TS20
ATOM	50945	CZ	ARG	T	23	120.374	40.690	-13.070	1.00	86.34	TS20
ATOM	50946	NH1	ARG	T	23	119.637	39.799	-12.418	1.00	86.34	TS20
ATOM	50947	NH2	ARG	T	23	121.034	40.326	-14.161	1.00	86.34	TS20



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ATOM	50948	C	ARG	T	23	115.387	41.739	-11.443	1.00	47.73	TS20
ATOM	50949	O	ARG	T	23	114.737	42.028	-12.448	1.00	47.73	TS20
ATOM	50950	N	LEU	T	24	115.591	40.488	-11.056	1.00	64.25	TS20
ATOM	50951	CA	LEU	T	24	115.096	39.372	-11.842	1.00	64.25	TS20
ATOM	50952	CB	LEU	T	24	115.372	38.062	-11.114	1.00	101.77	TS20
ATOM	50953	CG	LEU	T	24	115.056	36.799	-11.910	1.00	101.77	TS20
ATOM	50954	CD1	LEU	T	24	115.714	36.857	-13.282	1.00	101.77	TS20
ATOM	50955	CD2	LEU	T	24	115.544	35.594	-11.123	1.00	101.77	TS20
ATOM	50956	C	LEU	T	24	113.614	39.498	-12.159	1.00	64.25	TS20
ATOM	50957	O	LEU	T	24	113.144	38.971	-13.169	1.00	64.25	TS20
ATOM	50958	N	ARG	T	25	112.879	40.198	-11.302	1.00	57.99	TS20
ATOM	50959	CA	ARG	T	25	111.452	40.389	-11.529	1.00	57.99	TS20
ATOM	50960	CB	ARG	T	25	110.790	40.980	-10.290	1.00	92.67	TS20
ATOM	50961	CG	ARG	T	25	109.272	40.987	-10.340	1.00	92.67	TS20
ATOM	50962	CD	ARG	T	25	108.702	40.008	-9.326	1.00	92.67	TS20
ATOM	50963	NE	ARG	T	25	109.299	40.194	-8.000	1.00	92.67	TS20
ATOM	50964	CZ	ARG	T	25	109.021	39.446	-6.932	1.00	92.67	TS20
ATOM	50965	NH1	ARG	T	25	108.148	38.448	-7.016	1.00	92.67	TS20
ATOM	50966	NH2	ARG	T	25	109.622	39.697	-5.775	1.00	92.67	TS20
ATOM	50967	C	ARG	T	25	111.269	41.340	-12.712	1.00	57.99	TS20
ATOM	50968	O	ARG	T	25	110.643	40.987	-13.718	1.00	57.99	TS20
ATOM	50969	N	ASN	T	26	111.829	42.541	-12.579	1.00	48.50	TS20
ATOM	50970	CA	ASN	T	26	111.759	43.562	-13.620	1.00	48.50	TS20
ATOM	50971	CB	ASN	T	26	112.597	44.769	-13.225	1.00	60.92	TS20
ATOM	50972	CG	ASN	T	26	112.041	45.489	-12.033	1.00	60.92	TS20
ATOM	50973	OD1	ASN	T	26	110.901	45.963	-12.064	1.00	60.92	TS20
ATOM	50974	ND2	ASN	T	26	112.838	45.587	-10.967	1.00	60.92	TS20
ATOM	50975	C	ASN	T	26	112.304	43.013	-14.927	1.00	48.50	TS20
ATOM	50976	O	ASN	T	26	111.665	43.094	-15.988	1.00	48.50	TS20
ATOM	50977	N	LYS	T	27	113.515	42.479	-14.835	1.00	53.01	TS20
ATOM	50978	CA	LYS	T	27	114.201	41.893	-15.970	1.00	53.01	TS20
ATOM	50979	CB	LYS	T	27	115.387	41.081	-15.462	1.00	95.48	TS20
ATOM	50980	CG	LYS	T	27	116.005	40.212	-16.507	1.00	95.48	TS20
ATOM	50981	CD	LYS	T	27	116.683	39.030	-15.865	1.00	95.48	TS20
ATOM	50982	CE	LYS	T	27	116.809	37.894	-16.866	1.00	95.48	TS20
ATOM	50983	NZ	LYS	T	27	117.280	36.656	-16.200	1.00	95.48	TS20
ATOM	50984	C	LYS	T	27	113.255	40.999	-16.780	1.00	53.01	TS20
ATOM	50985	O	LYS	T	27	113.123	41.153	-17.994	1.00	53.01	TS20
ATOM	50986	N	ALA	T	28	112.579	40.080	-16.095	1.00	47.38	TS20
ATOM	50987	CA	ALA	T	28	111.662	39.149	-16.747	1.00	47.38	TS20
ATOM	50988	CB	ALA	T	28	111.273	38.071	-15.771	1.00	70.72	TS20
ATOM	50989	C	ALA	T	28	110.413	39.816	-17.314	1.00	47.38	TS20
ATOM	50990	O	ALA	T	28	109.889	39.413	-18.353	1.00	47.38	TS20
ATOM	50991	N	LYS	T	29	109.935	40.844	-16.628	1.00	62.73	TS20
ATOM	50992	CA	LYS	T	29	108.739	41.542	-17.074	1.00	62.73	TS20
ATOM	50993	CB	LYS	T	29	108.291	42.548	-16.019	1.00	63.33	TS20
ATOM	50994	CG	LYS	T	29	107.879	41.911	-14.715	1.00	63.33	TS20
ATOM	50995	CD	LYS	T	29	106.877	42.795	-14.025	1.00	63.33	TS20
ATOM	50996	CE	LYS	T	29	105.960	41.989	-13.130	1.00	63.33	TS20
ATOM	50997	NZ	LYS	T	29	104.625	42.665	-13.064	1.00	63.33	TS20
ATOM	50998	C	LYS	T	29	108.920	42.256	-18.399	1.00	62.73	TS20
ATOM	50999	O	LYS	T	29	108.040	42.213	-19.264	1.00	62.73	TS20
ATOM	51000	N	LYS	T	30	110.065	42.914	-18.550	1.00	72.57	TS20
ATOM	51001	CA	LYS	T	30	110.342	43.656	-19.762	1.00	72.57	TS20
ATOM	51002	CB	LYS	T	30	111.559	44.561	-19.561	1.00	76.41	TS20
ATOM	51003	CG	LYS	T	30	111.252	45.679	-18.571	1.00	76.41	TS20
ATOM	51004	CD	LYS	T	30	112.288	46.791	-18.545	1.00	76.41	TS20
ATOM	51005	CE	LYS	T	30	113.493	46.425	-17.690	1.00	76.41	TS20
ATOM	51006	NZ	LYS	T	30	114.374	47.609	-17.420	1.00	76.41	TS20
ATOM	51007	C	LYS	T	30	110.523	42.744	-20.950	1.00	72.57	TS20
ATOM	51008	O	LYS	T	30	109.924	42.974	-22.003	1.00	72.57	TS20
ATOM	51009	N	SER	T	31	111.319	41.694	-20.781	1.00	55.53	TS20
ATOM	51010	CA	SER	T	31	111.550	40.757	-21.875	1.00	55.53	TS20
ATOM	51011	CB	SER	T	31	112.236	39.499	-21.356	1.00	66.93	TS20
ATOM	51012	OG	SER	T	31	113.514	39.814	-20.829	1.00	66.93	TS20
ATOM	51013	C	SER	T	31	110.233	40.393	-22.553	1.00	55.53	TS20
ATOM	51014	O	SER	T	31	110.132	40.366	-23.783	1.00	55.53	TS20
ATOM	51015	N	ALA	T	32	109.218	40.123	-21.741	1.00	73.08	TS20
ATOM	51016	CA	ALA	T	32	107.900	39.775	-22.261	1.00	73.08	TS20
ATOM	51017	CB	ALA	T	32	106.897	39.661	-21.105	1.00	116.85	TS20
ATOM	51018	C	ALA	T	32	107.460	40.870	-23.223	1.00	73.08	TS20
ATOM	51019	O	ALA	T	32	107.159	40.623	-24.394	1.00	73.08	TS20
ATOM	51020	N	ILE	T	33	107.427	42.086	-22.695	1.00	53.73	TS20
ATOM	51021	CA	ILE	T	33	107.037	43.235	-23.464	1.00	53.73	TS20
ATOM	51022	CB	ILE	T	33	107.376	44.519	-22.723	1.00	34.94	TS20
ATOM	51023	CG2	ILE	T	33	106.955	45.717	-23.545	1.00	34.94	TS20
ATOM	51024	CG1	ILE	T	33	106.694	44.505	-21.356	1.00	34.94	TS20



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ATOM	51025	CD1	ILE	T	33	106.585	45.869	-20.685	1.00	34.94	TS20
ATOM	51026	C	ILE	T	33	107.797	43.204	-24.770	1.00	53.73	TS20
ATOM	51027	O	ILE	T	33	107.214	42.932	-25.825	1.00	53.73	TS20
ATOM	51028	N	LYS	T	34	109.103	43.458	-24.693	1.00	64.00	TS20
ATOM	51029	CA	LYS	T	34	109.950	43.477	-25.883	1.00	64.00	TS20
ATOM	51030	CB	LYS	T	34	111.423	43.338	-25.496	1.00	64.86	TS20
ATOM	51031	CG	LYS	T	34	111.955	44.497	-24.652	1.00	64.86	TS20
ATOM	51032	CD	LYS	T	34	113.429	44.306	-24.306	1.00	64.86	TS20
ATOM	51033	CE	LYS	T	34	113.968	45.439	-23.433	1.00	64.86	TS20
ATOM	51034	NZ	LYS	T	34	115.441	45.292	-23.172	1.00	64.86	TS20
ATOM	51035	C	LYS	T	34	109.550	42.372	-26.846	1.00	64.00	TS20
ATOM	51036	O	LYS	T	34	109.175	42.641	-27.989	1.00	64.00	TS20
ATOM	51037	N	THR	T	35	109.600	41.133	-26.378	1.00	55.33	TS20
ATOM	51038	CA	THR	T	35	109.226	40.004	-27.214	1.00	55.33	TS20
ATOM	51039	CB	THR	T	35	109.239	38.710	-26.408	1.00	97.45	TS20
ATOM	51040	OG1	THR	T	35	110.590	38.243	-26.295	1.00	97.45	TS20
ATOM	51041	CG2	THR	T	35	108.388	37.657	-27.085	1.00	97.45	TS20
ATOM	51042	C	THR	T	35	107.856	40.173	-27.868	1.00	55.33	TS20
ATOM	51043	O	THR	T	35	107.720	40.067	-29.091	1.00	55.33	TS20
ATOM	51044	N	LEU	T	36	106.840	40.429	-27.056	1.00	53.58	TS20
ATOM	51045	CA	LEU	T	36	105.504	40.615	-27.593	1.00	53.58	TS20
ATOM	51046	CB	LEU	T	36	104.506	40.860	-26.467	1.00	41.73	TS20
ATOM	51047	CG	LEU	T	36	103.892	39.629	-25.818	1.00	41.73	TS20
ATOM	51048	CD1	LEU	T	36	102.827	40.084	-24.840	1.00	41.73	TS20
ATOM	51049	CD2	LEU	T	36	103.282	38.725	-26.882	1.00	41.73	TS20
ATOM	51050	C	LEU	T	36	105.445	41.782	-28.568	1.00	53.58	TS20
ATOM	51051	O	LEU	T	36	104.779	41.707	-29.601	1.00	53.58	TS20
ATOM	51052	N	SER	T	37	106.138	42.862	-28.228	1.00	67.61	TS20
ATOM	51053	CA	SER	T	37	106.154	44.049	-29.068	1.00	67.61	TS20
ATOM	51054	CB	SER	T	37	107.068	45.104	-28.468	1.00	54.30	TS20
ATOM	51055	OG	SER	T	37	106.627	45.461	-27.177	1.00	54.30	TS20
ATOM	51056	C	SER	T	37	106.617	43.721	-30.472	1.00	67.61	TS20
ATOM	51057	O	SER	T	37	105.987	44.140	-31.442	1.00	67.61	TS20
ATOM	51058	N	LYS	T	38	107.722	42.986	-30.584	1.00	72.59	TS20
ATOM	51059	CA	LYS	T	38	108.228	42.611	-31.896	1.00	72.59	TS20
ATOM	51060	CB	LYS	T	38	109.489	41.770	-31.765	1.00	155.77	TS20
ATOM	51061	CG	LYS	T	38	110.617	42.487	-31.069	1.00	155.77	TS20
ATOM	51062	CD	LYS	T	38	111.778	41.539	-30.838	1.00	155.77	TS20
ATOM	51063	CE	LYS	T	38	112.789	42.114	-29.854	1.00	155.77	TS20
ATOM	51064	NZ	LYS	T	38	113.738	41.058	-29.386	1.00	155.77	TS20
ATOM	51065	C	LYS	T	38	107.137	41.803	-32.581	1.00	72.59	TS20
ATOM	51066	O	LYS	T	38	106.741	42.105	-33.710	1.00	72.59	TS20
ATOM	51067	N	LYS	T	39	106.648	40.783	-31.876	1.00	55.84	TS20
ATOM	51068	CA	LYS	T	39	105.589	39.919	-32.383	1.00	55.84	TS20
ATOM	51069	CB	LYS	T	39	104.981	39.114	-31.230	1.00	88.64	TS20
ATOM	51070	CG	LYS	T	39	103.953	38.058	-31.633	1.00	88.64	TS20
ATOM	51071	CD	LYS	T	39	103.257	37.486	-30.397	1.00	88.64	TS20
ATOM	51072	CE	LYS	T	39	102.580	36.150	-30.664	1.00	88.64	TS20
ATOM	51073	NZ	LYS	T	39	103.383	35.009	-30.142	1.00	88.64	TS20
ATOM	51074	C	LYS	T	39	104.505	40.770	-33.034	1.00	55.84	TS20
ATOM	51075	O	LYS	T	39	104.111	40.530	-34.171	1.00	55.84	TS20
ATOM	51076	N	ALA	T	40	104.025	41.771	-32.309	1.00	66.22	TS20
ATOM	51077	CA	ALA	T	40	102.982	42.626	-32.848	1.00	66.22	TS20
ATOM	51078	CB	ALA	T	40	102.465	43.584	-31.772	1.00	19.84	TS20
ATOM	51079	C	ALA	T	40	103.496	43.398	-34.056	1.00	66.22	TS20
ATOM	51080	O	ALA	T	40	102.951	43.278	-35.150	1.00	66.22	TS20
ATOM	51081	N	VAL	T	41	104.551	44.179	-33.866	1.00	62.12	TS20
ATOM	51082	CA	VAL	T	41	105.109	44.958	-34.967	1.00	62.12	TS20
ATOM	51083	CB	VAL	T	41	106.480	45.574	-34.603	1.00	43.47	TS20
ATOM	51084	CG1	VAL	T	41	107.085	46.183	-35.836	1.00	43.47	TS20
ATOM	51085	CG2	VAL	T	41	106.330	46.647	-33.512	1.00	43.47	TS20
ATOM	51086	C	VAL	T	41	105.302	44.081	-36.199	1.00	62.12	TS20
ATOM	51087	O	VAL	T	41	104.988	44.479	-37.319	1.00	62.12	TS20
ATOM	51088	N	GLN	T	42	105.814	42.879	-35.977	1.00	63.01	TS20
ATOM	51089	CA	GLN	T	42	106.067	41.942	-37.063	1.00	63.01	TS20
ATOM	51090	CB	GLN	T	42	106.659	40.648	-36.502	1.00	119.89	TS20
ATOM	51091	CG	GLN	T	42	108.014	40.314	-37.080	1.00	119.89	TS20
ATOM	51092	CD	GLN	T	42	107.953	40.049	-38.568	1.00	119.89	TS20
ATOM	51093	OE1	GLN	T	42	108.979	39.996	-39.240	1.00	119.89	TS20
ATOM	51094	NE2	GLN	T	42	106.747	39.870	-39.090	1.00	119.89	TS20
ATOM	51095	C	GLN	T	42	104.849	41.619	-37.928	1.00	63.01	TS20
ATOM	51096	O	GLN	T	42	104.907	41.710	-39.147	1.00	63.01	TS20
ATOM	51097	N	LEU	T	43	103.747	41.231	-37.308	1.00	82.75	TS20
ATOM	51098	CA	LEU	T	43	102.561	40.908	-38.083	1.00	82.75	TS20
ATOM	51099	CB	LEU	T	43	101.408	40.519	-37.158	1.00	85.12	TS20
ATOM	51100	CG	LEU	T	43	101.721	39.406	-36.160	1.00	85.12	TS20
ATOM	51101	CD1	LEU	T	43	100.426	38.963	-35.512	1.00	85.12	TS20



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ATOM	51102	CD2	LEU	T	43	102.404	38.232	-36.865	1.00	85.12	TS20
ATOM	51103	C	LEU	T	43	102.159	42.100	-38.939	1.00	82.75	TS20
ATOM	51104	O	LEU	T	43	102.130	42.005	-40.166	1.00	82.75	TS20
ATOM	51105	N	ALA	T	44	101.853	43.217	-38.282	1.00	89.12	TS20
ATOM	51106	CA	ALA	T	44	101.451	44.443	-38.968	1.00	89.12	TS20
ATOM	51107	CB	ALA	T	44	101.574	45.628	-38.032	1.00	60.92	TS20
ATOM	51108	C	ALA	T	44	102.342	44.650	-40.174	1.00	89.12	TS20
ATOM	51109	O	ALA	T	44	101.896	45.099	-41.230	1.00	89.12	TS20
ATOM	51110	N	GLN	T	45	103.613	44.318	-39.991	1.00	72.36	TS20
ATOM	51111	CA	GLN	T	45	104.615	44.431	-41.039	1.00	72.36	TS20
ATOM	51112	CB	GLN	T	45	105.952	43.894	-40.506	1.00126.83		TS20
ATOM	51113	CG	GLN	T	45	107.152	44.132	-41.390	1.00126.83		TS20
ATOM	51114	CD	GLN	T	45	106.956	43.558	-42.767	1.00126.83		TS20
ATOM	51115	OE1	GLN	T	45	106.642	42.373	-42.926	1.00126.83		TS20
ATOM	51116	NE2	GLN	T	45	107.133	44.394	-43.778	1.00126.83		TS20
ATOM	51117	C	GLN	T	45	104.135	43.626	-42.250	1.00	72.36	TS20
ATOM	51118	O	GLN	T	45	103.887	44.186	-43.311	1.00	72.36	TS20
ATOM	51119	N	GLU	T	46	103.993	42.316	-42.073	1.00	68.57	TS20
ATOM	51120	CA	GLU	T	46	103.533	41.421	-43.133	1.00	68.57	TS20
ATOM	51121	CB	GLU	T	46	103.789	39.977	-42.736	1.00128.93		TS20
ATOM	51122	CG	GLU	T	46	104.980	39.820	-41.839	1.00128.93		TS20
ATOM	51123	CD	GLU	T	46	104.866	38.593	-40.982	1.00128.93		TS20
ATOM	51124	OE1	GLU	T	46	105.074	37.485	-41.514	1.00128.93		TS20
ATOM	51125	OE2	GLU	T	46	104.551	38.736	-39.781	1.00128.93		TS20
ATOM	51126	C	GLU	T	46	102.038	41.625	-43.345	1.00	68.57	TS20
ATOM	51127	O	GLU	T	46	101.375	40.842	-44.026	1.00	68.57	TS20
ATOM	51128	N	GLY	T	47	101.513	42.671	-42.720	1.00	87.88	TS20
ATOM	51129	CA	GLY	T	47	100.113	43.009	-42.867	1.00	87.88	TS20
ATOM	51130	C	GLY	T	47	99.033	42.141	-42.251	1.00	87.88	TS20
ATOM	51131	O	GLY	T	47	97.857	42.471	-42.392	1.00	87.88	TS20
ATOM	51132	N	LYS	T	48	99.386	41.048	-41.580	1.00	89.07	TS20
ATOM	51133	CA	LYS	T	48	98.356	40.206	-40.972	1.00	89.07	TS20
ATOM	51134	CB	LYS	T	48	98.989	38.947	-40.390	1.00119.47		TS20
ATOM	51135	CG	LYS	T	48	99.716	38.138	-41.443	1.00119.47		TS20
ATOM	51136	CD	LYS	T	48	100.241	36.833	-40.893	1.00119.47		TS20
ATOM	51137	CE	LYS	T	48	101.238	36.223	-41.858	1.00119.47		TS20
ATOM	51138	NZ	LYS	T	48	102.337	37.193	-42.147	1.00119.47		TS20
ATOM	51139	C	LYS	T	48	97.597	40.987	-39.898	1.00	89.07	TS20
ATOM	51140	O	LYS	T	48	97.837	40.833	-38.705	1.00	89.07	TS20
ATOM	51141	N	ALA	T	49	96.671	41.821	-40.363	1.00	72.50	TS20
ATOM	51142	CA	ALA	T	49	95.850	42.703	-39.535	1.00	72.50	TS20
ATOM	51143	CB	ALA	T	49	94.649	43.186	-40.347	1.00127.43		TS20
ATOM	51144	C	ALA	T	49	95.369	42.159	-38.199	1.00	72.50	TS20
ATOM	51145	O	ALA	T	49	95.920	42.489	-37.148	1.00	72.50	TS20
ATOM	51146	N	GLU	T	50	94.318	41.347	-38.252	1.00	97.50	TS20
ATOM	51147	CA	GLU	T	50	93.731	40.768	-37.055	1.00	97.50	TS20
ATOM	51148	CB	GLU	T	50	93.011	39.459	-37.386	1.00162.15		TS20
ATOM	51149	CG	GLU	T	50	91.499	39.586	-37.503	1.00162.15		TS20
ATOM	51150	CD	GLU	T	50	90.774	38.332	-37.033	1.00162.15		TS20
ATOM	51151	OE1	GLU	T	50	91.007	37.249	-37.614	1.00162.15		TS20
ATOM	51152	OE2	GLU	T	50	89.972	38.428	-36.079	1.00162.15		TS20
ATOM	51153	C	GLU	T	50	94.727	40.509	-35.937	1.00	97.50	TS20
ATOM	51154	O	GLU	T	50	94.808	41.278	-34.979	1.00	97.50	TS20
ATOM	51155	N	GLU	T	51	95.486	39.427	-36.066	1.00	83.65	TS20
ATOM	51156	CA	GLU	T	51	96.445	39.054	-35.041	1.00	83.65	TS20
ATOM	51157	CB	GLU	T	51	97.145	37.752	-35.430	1.00165.06		TS20
ATOM	51158	CG	GLU	T	51	97.735	37.739	-36.818	1.00165.06		TS20
ATOM	51159	CD	GLU	T	51	98.285	36.375	-37.181	1.00165.06		TS20
ATOM	51160	OE1	GLU	T	51	99.023	35.797	-36.354	1.00165.06		TS20
ATOM	51161	OE2	GLU	T	51	97.983	35.883	-38.290	1.00165.06		TS20
ATOM	51162	C	GLU	T	51	97.471	40.125	-34.684	1.00	83.65	TS20
ATOM	51163	O	GLU	T	51	97.931	40.194	-33.541	1.00	83.65	TS20
ATOM	51164	N	ALA	T	52	97.830	40.968	-35.645	1.00	82.00	TS20
ATOM	51165	CA	ALA	T	52	98.797	42.025	-35.366	1.00	82.00	TS20
ATOM	51166	CB	ALA	T	52	99.009	42.889	-36.604	1.00	61.42	TS20
ATOM	51167	C	ALA	T	52	98.263	42.871	-34.213	1.00	82.00	TS20
ATOM	51168	O	ALA	T	52	98.993	43.204	-33.279	1.00	82.00	TS20
ATOM	51169	N	LEU	T	53	96.979	43.207	-34.284	1.00	65.90	TS20
ATOM	51170	CA	LEU	T	53	96.339	44.004	-33.244	1.00	65.90	TS20
ATOM	51171	CB	LEU	T	53	95.013	44.562	-33.763	1.00	66.69	TS20
ATOM	51172	CG	LEU	T	53	95.228	45.585	-34.888	1.00	66.69	TS20
ATOM	51173	CD1	LEU	T	53	93.986	45.719	-35.738	1.00	66.69	TS20
ATOM	51174	CD2	LEU	T	53	95.615	46.919	-34.286	1.00	66.69	TS20
ATOM	51175	C	LEU	T	53	96.127	43.165	-31.987	1.00	65.90	TS20
ATOM	51176	O	LEU	T	53	96.525	43.575	-30.897	1.00	65.90	TS20
ATOM	51177	N	LYS	T	54	95.520	41.988	-32.149	1.00	95.25	TS20
ATOM	51178	CA	LYS	T	54	95.282	41.079	-31.028	1.00	95.25	TS20



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ATOM	51179	CB	LYS	T	54	94.972	39.665	-31.526	1.00141.65	TS20
ATOM	51180	CG	LYS	T	54	93.504	39.376	-31.754	1.00141.65	TS20
ATOM	51181	CD	LYS	T	54	93.290	37.948	-32.246	1.00141.65	TS20
ATOM	51182	CE	LYS	T	54	91.819	37.674	-32.515	1.00141.65	TS20
ATOM	51183	NZ	LYS	T	54	91.595	36.294	-33.015	1.00141.65	TS20
ATOM	51184	C	LYS	T	54	96.513	41.017	-30.138	1.00 95.25	TS20
ATOM	51185	O	LYS	T	54	96.418	41.125	-28.916	1.00 95.25	TS20
ATOM	51186	N	ILE	T	55	97.671	40.830	-30.761	1.00 64.53	TS20
ATOM	51187	CA	ILE	T	55	98.923	40.761	-30.028	1.00 64.53	TS20
ATOM	51188	CB	ILE	T	55	100.059	40.300	-30.937	1.00 56.92	TS20
ATOM	51189	CG2	ILE	T	55	101.391	40.368	-30.201	1.00 56.92	TS20
ATOM	51190	CG1	ILE	T	55	99.774	38.883	-31.402	1.00 56.92	TS20
ATOM	51191	CD1	ILE	T	55	100.826	38.329	-32.306	1.00 56.92	TS20
ATOM	51192	C	ILE	T	55	99.274	42.130	-29.464	1.00 64.53	TS20
ATOM	51193	O	ILE	T	55	99.673	42.258	-28.299	1.00 64.53	TS20
ATOM	51194	N	MET	T	56	99.128	43.154	-30.299	1.00 52.04	TS20
ATOM	51195	CA	MET	T	56	99.429	44.503	-29.876	1.00 52.04	TS20
ATOM	51196	CB	MET	T	56	98.855	45.514	-30.857	1.00 66.41	TS20
ATOM	51197	CG	MET	T	56	99.495	46.882	-30.726	1.00 66.41	TS20
ATOM	51198	SD	MET	T	56	98.493	48.204	-31.398	1.00 66.41	TS20
ATOM	51199	CE	MET	T	56	98.568	47.808	-33.078	1.00 66.41	TS20
ATOM	51200	C	MET	T	56	98.807	44.713	-28.507	1.00 52.04	TS20
ATOM	51201	O	MET	T	56	99.513	45.021	-27.545	1.00 52.04	TS20
ATOM	51202	N	ARG	T	57	97.490	44.527	-28.416	1.00 58.86	TS20
ATOM	51203	CA	ARG	T	57	96.793	44.705	-27.146	1.00 58.86	TS20
ATOM	51204	CB	ARG	T	57	95.391	44.087	-27.172	1.00104.88	TS20
ATOM	51205	CG	ARG	T	57	94.366	44.843	-27.990	1.00104.88	TS20
ATOM	51206	CD	ARG	T	57	94.471	44.451	-29.444	1.00104.88	TS20
ATOM	51207	NE	ARG	T	57	93.177	44.106	-30.017	1.00104.88	TS20
ATOM	51208	CZ	ARG	T	57	92.322	43.253	-29.463	1.00104.88	TS20
ATOM	51209	NH1	ARG	T	57	92.624	42.655	-28.315	1.00104.88	TS20
ATOM	51210	NH2	ARG	T	57	91.163	42.997	-30.056	1.00104.88	TS20
ATOM	51211	C	ARG	T	57	97.584	44.077	-26.011	1.00 58.86	TS20
ATOM	51212	O	ARG	T	57	97.894	44.743	-25.024	1.00 58.86	TS20
ATOM	51213	N	LYS	T	58	97.916	42.796	-26.139	1.00 60.97	TS20
ATOM	51214	CA	LYS	T	58	98.679	42.139	-25.081	1.00 60.97	TS20
ATOM	51215	CB	LYS	T	58	99.162	40.749	-25.529	1.00147.68	TS20
ATOM	51216	CG	LYS	T	58	98.028	39.717	-25.678	1.00147.68	TS20
ATOM	51217	CD	LYS	T	58	98.533	38.298	-25.983	1.00147.68	TS20
ATOM	51218	CE	LYS	T	58	97.376	37.291	-26.058	1.00147.68	TS20
ATOM	51219	NZ	LYS	T	58	97.825	35.884	-26.286	1.00147.68	TS20
ATOM	51220	C	LYS	T	58	99.855	43.045	-24.747	1.00 60.97	TS20
ATOM	51221	O	LYS	T	58	100.024	43.477	-23.596	1.00 60.97	TS20
ATOM	51222	N	ALA	T	59	100.636	43.362	-25.775	1.00 44.62	TS20
ATOM	51223	CA	ALA	T	59	101.789	44.229	-25.611	1.00 44.62	TS20
ATOM	51224	CB	ALA	T	59	102.289	44.691	-26.967	1.00105.18	TS20
ATOM	51225	C	ALA	T	59	101.422	45.431	-24.749	1.00 44.62	TS20
ATOM	51226	O	ALA	T	59	102.043	45.665	-23.703	1.00 44.62	TS20
ATOM	51227	N	GLU	T	60	100.411	46.184	-25.185	1.00 53.68	TS20
ATOM	51228	CA	GLU	T	60	99.978	47.353	-24.438	1.00 53.68	TS20
ATOM	51229	CB	GLU	T	60	98.628	47.852	-24.929	1.00 68.61	TS20
ATOM	51230	CG	GLU	T	60	98.234	49.177	-24.311	1.00 68.61	TS20
ATOM	51231	CD	GLU	T	60	96.889	49.668	-24.797	1.00 68.61	TS20
ATOM	51232	OE1	GLU	T	60	96.523	50.825	-24.499	1.00 68.61	TS20
ATOM	51233	OE2	GLU	T	60	96.185	48.891	-25.472	1.00 68.61	TS20
ATOM	51234	C	GLU	T	60	99.874	46.937	-22.987	1.00 53.68	TS20
ATOM	51235	O	GLU	T	60	100.725	47.296	-22.174	1.00 53.68	TS20
ATOM	51236	N	SER	T	61	98.844	46.155	-22.675	1.00 60.66	TS20
ATOM	51237	CA	SER	T	61	98.611	45.656	-21.324	1.00 60.66	TS20
ATOM	51238	CB	SER	T	61	97.847	44.344	-21.390	1.00 67.30	TS20
ATOM	51239	OG	SER	T	61	97.895	43.697	-20.135	1.00 67.30	TS20
ATOM	51240	C	SER	T	61	99.892	45.435	-20.523	1.00 60.66	TS20
ATOM	51241	O	SER	T	61	100.179	46.151	-19.556	1.00 60.66	TS20
ATOM	51242	N	LEU	T	62	100.646	44.420	-20.930	1.00 61.92	TS20
ATOM	51243	CA	LEU	T	62	101.905	44.082	-20.281	1.00 61.92	TS20
ATOM	51244	CB	LEU	T	62	102.787	43.292	-21.245	1.00 69.16	TS20
ATOM	51245	CG	LEU	T	62	102.532	41.801	-21.485	1.00 69.16	TS20
ATOM	51246	CD1	LEU	T	62	103.284	41.021	-20.431	1.00 69.16	TS20
ATOM	51247	CD2	LEU	T	62	101.040	41.480	-21.488	1.00 69.16	TS20
ATOM	51248	C	LEU	T	62	102.632	45.350	-19.871	1.00 61.92	TS20
ATOM	51249	O	LEU	T	62	103.039	45.504	-18.720	1.00 61.92	TS20
ATOM	51250	N	ILE	T	63	102.790	46.252	-20.831	1.00 55.90	TS20
ATOM	51251	CA	ILE	T	63	103.462	47.518	-20.600	1.00 55.90	TS20
ATOM	51252	CB	ILE	T	63	103.493	48.346	-21.894	1.00 47.29	TS20
ATOM	51253	CG2	ILE	T	63	104.067	49.732	-21.635	1.00 47.29	TS20
ATOM	51254	CG1	ILE	T	63	104.311	47.598	-22.945	1.00 47.29	TS20
ATOM	51255	CD1	ILE	T	63	104.416	48.316	-24.278	1.00 47.29	TS20



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ATOM	51256	C	ILE	T	63	102.795	48.329	-19.490	1.00	55.90	TS20
ATOM	51257	O	ILE	T	63	103.414	48.612	-18.465	1.00	55.90	TS20
ATOM	51258	N	ASP	T	64	101.534	48.701	-19.685	1.00	58.93	TS20
ATOM	51259	CA	ASP	T	64	100.824	49.490	-18.683	1.00	58.93	TS20
ATOM	51260	CB	ASP	T	64	99.359	49.670	-19.076	1.00	82.96	TS20
ATOM	51261	CG	ASP	T	64	99.120	50.941	-19.857	1.00	82.96	TS20
ATOM	51262	OD1	ASP	T	64	99.460	52.030	-19.346	1.00	82.96	TS20
ATOM	51263	OD2	ASP	T	64	98.586	50.850	-20.980	1.00	82.96	TS20
ATOM	51264	C	ASP	T	64	100.892	48.887	-17.289	1.00	58.93	TS20
ATOM	51265	O	ASP	T	64	100.789	49.606	-16.293	1.00	58.93	TS20
ATOM	51266	N	LYS	T	65	101.044	47.566	-17.222	1.00	61.96	TS20
ATOM	51267	CA	LYS	T	65	101.129	46.874	-15.942	1.00	61.96	TS20
ATOM	51268	CB	LYS	T	65	100.761	45.404	-16.098	1.00	68.75	TS20
ATOM	51269	CG	LYS	T	65	99.352	45.130	-16.561	1.00	68.75	TS20
ATOM	51270	CD	LYS	T	65	99.156	43.634	-16.602	1.00	68.75	TS20
ATOM	51271	CE	LYS	T	65	97.737	43.243	-16.935	1.00	68.75	TS20
ATOM	51272	NZ	LYS	T	65	97.540	41.754	-16.852	1.00	68.75	TS20
ATOM	51273	C	LYS	T	65	102.553	46.977	-15.433	1.00	61.96	TS20
ATOM	51274	O	LYS	T	65	102.790	47.147	-14.242	1.00	61.96	TS20
ATOM	51275	N	ALA	T	66	103.507	46.850	-16.341	1.00	48.27	TS20
ATOM	51276	CA	ALA	T	66	104.900	46.972	-15.963	1.00	48.27	TS20
ATOM	51277	CB	ALA	T	66	105.779	46.863	-17.182	1.00	84.92	TS20
ATOM	51278	C	ALA	T	66	105.063	48.348	-15.335	1.00	48.27	TS20
ATOM	51279	O	ALA	T	66	105.883	48.552	-14.446	1.00	48.27	TS20
ATOM	51280	N	ALA	T	67	104.262	49.293	-15.808	1.00	55.48	TS20
ATOM	51281	CA	ALA	T	67	104.314	50.659	-15.304	1.00	55.48	TS20
ATOM	51282	CB	ALA	T	67	103.774	51.613	-16.344	1.00	120.74	TS20
ATOM	51283	C	ALA	T	67	103.528	50.808	-14.023	1.00	55.48	TS20
ATOM	51284	O	ALA	T	67	103.594	51.847	-13.367	1.00	55.48	TS20
ATOM	51285	N	LYS	T	68	102.764	49.771	-13.687	1.00	65.27	TS20
ATOM	51286	CA	LYS	T	68	101.956	49.761	-12.470	1.00	65.27	TS20
ATOM	51287	CB	LYS	T	68	101.085	48.497	-12.428	1.00	130.80	TS20
ATOM	51288	CG	LYS	T	68	99.818	48.651	-11.622	1.00	130.80	TS20
ATOM	51289	CD	LYS	T	68	98.988	49.785	-12.191	1.00	130.80	TS20
ATOM	51290	CE	LYS	T	68	97.838	50.171	-11.271	1.00	130.80	TS20
ATOM	51291	NZ	LYS	T	68	96.982	51.272	-11.834	1.00	130.80	TS20
ATOM	51292	C	LYS	T	68	102.962	49.759	-11.325	1.00	65.27	TS20
ATOM	51293	O	LYS	T	68	102.919	50.602	-10.426	1.00	65.27	TS20
ATOM	51294	N	GLY	T	69	103.884	48.806	-11.396	1.00	103.72	TS20
ATOM	51295	CA	GLY	T	69	104.927	48.693	-10.400	1.00	103.72	TS20
ATOM	51296	C	GLY	T	69	106.105	49.531	-10.848	1.00	103.72	TS20
ATOM	51297	O	GLY	T	69	106.019	50.258	-11.845	1.00	103.72	TS20
ATOM	51298	N	SER	T	70	107.219	49.423	-10.135	1.00	59.79	TS20
ATOM	51299	CA	SER	T	70	108.387	50.221	-10.482	1.00	59.79	TS20
ATOM	51300	CB	SER	T	70	109.243	50.492	-9.235	1.00	53.57	TS20
ATOM	51301	OG	SER	T	70	109.730	49.295	-8.654	1.00	53.57	TS20
ATOM	51302	C	SER	T	70	109.265	49.650	-11.584	1.00	59.79	TS20
ATOM	51303	O	SER	T	70	110.454	49.917	-11.601	1.00	59.79	TS20
ATOM	51304	N	THR	T	71	108.693	48.877	-12.502	1.00	64.20	TS20
ATOM	51305	CA	THR	T	71	109.482	48.306	-13.596	1.00	64.20	TS20
ATOM	51306	CB	THR	T	71	108.811	47.076	-14.196	1.00	52.82	TS20
ATOM	51307	OG1	THR	T	71	108.205	46.314	-13.146	1.00	52.82	TS20
ATOM	51308	CG2	THR	T	71	109.840	46.218	-14.920	1.00	52.82	TS20
ATOM	51309	C	THR	T	71	109.641	49.342	-14.699	1.00	64.20	TS20
ATOM	51310	O	THR	T	71	110.733	49.856	-14.923	1.00	64.20	TS20
ATOM	51311	N	LEU	T	72	108.556	49.638	-15.401	1.00	74.07	TS20
ATOM	51312	CA	LEU	T	72	108.620	50.638	-16.445	1.00	74.07	TS20
ATOM	51313	CB	LEU	T	72	107.548	50.421	-17.496	1.00	47.66	TS20
ATOM	51314	CG	LEU	T	72	107.988	49.549	-18.659	1.00	47.66	TS20
ATOM	51315	CD1	LEU	T	72	107.057	49.793	-19.836	1.00	47.66	TS20
ATOM	51316	CD2	LEU	T	72	109.430	49.880	-19.048	1.00	47.66	TS20
ATOM	51317	C	LEU	T	72	108.398	51.985	-15.826	1.00	74.07	TS20
ATOM	51318	O	LEU	T	72	109.258	52.853	-15.863	1.00	74.07	TS20
ATOM	51319	N	HIS	T	73	107.218	52.150	-15.254	1.00	57.27	TS20
ATOM	51320	CA	HIS	T	73	106.834	53.398	-14.616	1.00	57.27	TS20
ATOM	51321	CB	HIS	T	73	107.609	53.578	-13.305	1.00	88.69	TS20
ATOM	51322	CG	HIS	T	73	106.821	53.217	-12.083	1.00	88.69	TS20
ATOM	51323	CD2	HIS	T	73	107.201	53.056	-10.793	1.00	88.69	TS20
ATOM	51324	ND1	HIS	T	73	105.455	53.038	-12.104	1.00	88.69	TS20
ATOM	51325	CE1	HIS	T	73	105.027	52.782	-10.881	1.00	88.69	TS20
ATOM	51326	NE2	HIS	T	73	106.067	52.787	-10.067	1.00	88.69	TS20
ATOM	51327	C	HIS	T	73	106.921	54.696	-15.442	1.00	57.27	TS20
ATOM	51328	O	HIS	T	73	107.916	54.981	-16.121	1.00	57.27	TS20
ATOM	51329	N	LYS	T	74	105.840	55.472	-15.346	1.00	68.92	TS20
ATOM	51330	CA	LYS	T	74	105.702	56.772	-15.987	1.00	68.92	TS20
ATOM	51331	CB	LYS	T	74	106.977	57.634	-15.783	1.00	64.52	TS20
ATOM	51332	CG	LYS	T	74	107.820	57.322	-14.575	1.00	64.52	TS20



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ATOM	51333	CD	LYS	T	74	108.336	58.572	-13.932	1.00	64.52	TS20
ATOM	51334	CE	LYS	T	74	109.063	58.175	-12.661	1.00	64.52	TS20
ATOM	51335	NZ	LYS	T	74	109.392	59.278	-11.690	1.00	64.52	TS20
ATOM	51336	C	LYS	T	74	105.394	56.772	-17.474	1.00	68.92	TS20
ATOM	51337	O	LYS	T	74	104.505	56.083	-17.973	1.00	68.92	TS20
ATOM	51338	N	ASN	T	75	106.188	57.601	-18.143	1.00	60.57	TS20
ATOM	51339	CA	ASN	T	75	106.154	57.862	-19.562	1.00	60.57	TS20
ATOM	51340	CB	ASN	T	75	106.827	59.203	-19.802	1.00	69.49	TS20
ATOM	51341	CG	ASN	T	75	106.767	60.096	-18.571	1.00	69.49	TS20
ATOM	51342	OD1	ASN	T	75	105.693	60.334	-18.026	1.00	69.49	TS20
ATOM	51343	ND2	ASN	T	75	107.922	60.586	-18.122	1.00	69.49	TS20
ATOM	51344	C	ASN	T	75	106.885	56.763	-20.299	1.00	60.57	TS20
ATOM	51345	O	ASN	T	75	106.694	56.580	-21.504	1.00	60.57	TS20
ATOM	51346	N	ALA	T	76	107.742	56.045	-19.577	1.00	60.96	TS20
ATOM	51347	CA	ALA	T	76	108.461	54.927	-20.177	1.00	60.96	TS20
ATOM	51348	CB	ALA	T	76	109.178	54.118	-19.112	1.00	70.62	TS20
ATOM	51349	C	ALA	T	76	107.322	54.122	-20.769	1.00	60.96	TS20
ATOM	51350	O	ALA	T	76	107.366	53.693	-21.928	1.00	60.96	TS20
ATOM	51351	N	ALA	T	77	106.284	53.956	-19.949	1.00	58.19	TS20
ATOM	51352	CA	ALA	T	77	105.086	53.247	-20.349	1.00	58.19	TS20
ATOM	51353	CB	ALA	T	77	104.065	53.313	-19.238	1.00	102.40	TS20
ATOM	51354	C	ALA	T	77	104.546	53.930	-21.601	1.00	58.19	TS20
ATOM	51355	O	ALA	T	77	104.494	53.339	-22.681	1.00	58.19	TS20
ATOM	51356	N	ALA	T	78	104.168	55.193	-21.450	1.00	70.75	TS20
ATOM	51357	CA	ALA	T	78	103.624	55.967	-22.557	1.00	70.75	TS20
ATOM	51358	CB	ALA	T	78	103.618	57.444	-22.191	1.00	59.53	TS20
ATOM	51359	C	ALA	T	78	104.357	55.756	-23.887	1.00	70.75	TS20
ATOM	51360	O	ALA	T	78	103.736	55.343	-24.883	1.00	70.75	TS20
ATOM	51361	N	ARG	T	79	105.667	56.035	-23.898	1.00	60.57	TS20
ATOM	51362	CA	ARG	T	79	106.467	55.895	-25.117	1.00	60.57	TS20
ATOM	51363	CB	ARG	T	79	107.960	56.023	-24.855	1.00	61.85	TS20
ATOM	51364	CG	ARG	T	79	108.419	57.359	-24.357	1.00	61.85	TS20
ATOM	51365	CD	ARG	T	79	109.895	57.509	-24.667	1.00	61.85	TS20
ATOM	51366	NE	ARG	T	79	110.651	56.280	-24.416	1.00	61.85	TS20
ATOM	51367	CZ	ARG	T	79	111.224	55.966	-23.257	1.00	61.85	TS20
ATOM	51368	NH1	ARG	T	79	111.143	56.786	-22.212	1.00	61.85	TS20
ATOM	51369	NH2	ARG	T	79	111.894	54.827	-23.150	1.00	61.85	TS20
ATOM	51370	C	ARG	T	79	106.241	54.550	-25.728	1.00	60.57	TS20
ATOM	51371	O	ARG	T	79	105.736	54.447	-26.837	1.00	60.57	TS20
ATOM	51372	N	ARG	T	80	106.635	53.517	-24.997	1.00	66.20	TS20
ATOM	51373	CA	ARG	T	80	106.482	52.153	-25.469	1.00	66.20	TS20
ATOM	51374	CB	ARG	T	80	106.326	51.212	-24.278	1.00	72.74	TS20
ATOM	51375	CG	ARG	T	80	107.447	51.299	-23.275	1.00	72.74	TS20
ATOM	51376	CD	ARG	T	80	108.572	50.372	-23.638	1.00	72.74	TS20
ATOM	51377	NE	ARG	T	80	109.700	50.574	-22.746	1.00	72.74	TS20
ATOM	51378	CZ	ARG	T	80	110.625	49.658	-22.496	1.00	72.74	TS20
ATOM	51379	NH1	ARG	T	80	110.555	48.458	-23.066	1.00	72.74	TS20
ATOM	51380	NH2	ARG	T	80	111.630	49.955	-21.684	1.00	72.74	TS20
ATOM	51381	C	ARG	T	80	105.231	52.081	-26.333	1.00	66.20	TS20
ATOM	51382	O	ARG	T	80	105.293	51.779	-27.529	1.00	66.20	TS20
ATOM	51383	N	LYS	T	81	104.104	52.403	-25.709	1.00	67.70	TS20
ATOM	51384	CA	LYS	T	81	102.814	52.366	-26.363	1.00	67.70	TS20
ATOM	51385	CB	LYS	T	81	101.759	52.835	-25.369	1.00	53.89	TS20
ATOM	51386	CG	LYS	T	81	101.714	51.896	-24.160	1.00	53.89	TS20
ATOM	51387	CD	LYS	T	81	100.802	52.386	-23.069	1.00	53.89	TS20
ATOM	51388	CE	LYS	T	81	99.371	52.491	-23.538	1.00	53.89	TS20
ATOM	51389	NZ	LYS	T	81	98.560	53.169	-22.494	1.00	53.89	TS20
ATOM	51390	C	LYS	T	81	102.748	53.139	-27.676	1.00	67.70	TS20
ATOM	51391	O	LYS	T	81	102.485	52.550	-28.728	1.00	67.70	TS20
ATOM	51392	N	SER	T	82	102.992	54.441	-27.638	1.00	73.65	TS20
ATOM	51393	CA	SER	T	82	102.961	55.221	-28.872	1.00	73.65	TS20
ATOM	51394	CB	SER	T	82	103.337	56.659	-28.573	1.00	57.16	TS20
ATOM	51395	OG	SER	T	82	104.490	56.666	-27.769	1.00	57.16	TS20
ATOM	51396	C	SER	T	82	103.884	54.660	-29.974	1.00	73.65	TS20
ATOM	51397	O	SER	T	82	103.465	54.509	-31.118	1.00	73.65	TS20
ATOM	51398	N	ARG	T	83	105.137	54.360	-29.642	1.00	49.71	TS20
ATOM	51399	CA	ARG	T	83	106.063	53.813	-30.635	1.00	49.71	TS20
ATOM	51400	CB	ARG	T	83	107.456	53.615	-30.034	1.00	88.97	TS20
ATOM	51401	CG	ARG	T	83	108.232	54.901	-29.888	1.00	88.97	TS20
ATOM	51402	CD	ARG	T	83	109.482	54.733	-29.045	1.00	88.97	TS20
ATOM	51403	NE	ARG	T	83	110.174	56.010	-28.891	1.00	88.97	TS20
ATOM	51404	CZ	ARG	T	83	111.192	56.222	-28.064	1.00	88.97	TS20
ATOM	51405	NH1	ARG	T	83	111.651	55.237	-27.303	1.00	88.97	TS20
ATOM	51406	NH2	ARG	T	83	111.754	57.423	-28.000	1.00	88.97	TS20
ATOM	51407	C	ARG	T	83	105.548	52.480	-31.144	1.00	49.71	TS20
ATOM	51408	O	ARG	T	83	105.713	52.147	-32.317	1.00	49.71	TS20
ATOM	51409	N	LEU	T	84	104.915	51.718	-30.256	1.00	70.81	TS20



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ATOM	51410	CA	LEU	T	84	104.380	50.407	-30.615	1.00	70.81	TS20
ATOM	51411	CB	LEU	T	84	104.092	49.597	-29.340	1.00	36.84	TS20
ATOM	51412	CG	LEU	T	84	103.733	48.105	-29.356	1.00	36.84	TS20
ATOM	51413	CD1	LEU	T	84	102.241	47.957	-29.506	1.00	36.84	TS20
ATOM	51414	CD2	LEU	T	84	104.479	47.367	-30.462	1.00	36.84	TS20
ATOM	51415	C	LEU	T	84	103.123	50.572	-31.456	1.00	70.81	TS20
ATOM	51416	O	LEU	T	84	102.952	49.888	-32.459	1.00	70.81	TS20
ATOM	51417	N	MET	T	85	102.255	51.493	-31.057	1.00	80.46	TS20
ATOM	51418	CA	MET	T	85	101.027	51.735	-31.801	1.00	80.46	TS20
ATOM	51419	CB	MET	T	85	100.042	52.551	-30.958	1.00	77.37	TS20
ATOM	51420	CG	MET	T	85	99.405	51.745	-29.837	1.00	77.37	TS20
ATOM	51421	SD	MET	T	85	98.174	52.637	-28.872	1.00	77.37	TS20
ATOM	51422	CE	MET	T	85	96.926	52.872	-30.077	1.00	77.37	TS20
ATOM	51423	C	MET	T	85	101.315	52.452	-33.114	1.00	80.46	TS20
ATOM	51424	O	MET	T	85	100.694	52.165	-34.139	1.00	80.46	TS20
ATOM	51425	N	ARG	T	86	102.259	53.384	-33.083	1.00	82.62	TS20
ATOM	51426	CA	ARG	T	86	102.619	54.114	-34.285	1.00	82.62	TS20
ATOM	51427	CB	ARG	T	86	103.666	55.186	-33.967	1.00142.27	TS20	TS20
ATOM	51428	CG	ARG	T	86	103.338	56.533	-34.582	1.00142.27	TS20	TS20
ATOM	51429	CD	ARG	T	86	103.946	57.688	-33.806	1.00142.27	TS20	TS20
ATOM	51430	NE	ARG	T	86	103.180	58.916	-34.027	1.00142.27	TS20	TS20
ATOM	51431	CZ	ARG	T	86	103.379	60.063	-33.378	1.00142.27	TS20	TS20
ATOM	51432	NH1	ARG	T	86	104.332	60.151	-32.459	1.00142.27	TS20	TS20
ATOM	51433	NH2	ARG	T	86	102.611	61.121	-33.633	1.00142.27	TS20	TS20
ATOM	51434	C	ARG	T	86	103.162	53.084	-35.267	1.00	82.62	TS20
ATOM	51435	O	ARG	T	86	102.604	52.900	-36.347	1.00	82.62	TS20
ATOM	51436	N	LYS	T	87	104.229	52.390	-34.876	1.00	61.14	TS20
ATOM	51437	CA	LYS	T	87	104.833	51.366	-35.724	1.00	61.14	TS20
ATOM	51438	CB	LYS	T	87	105.785	50.484	-34.916	1.00105.66	TS20	TS20
ATOM	51439	CG	LYS	T	87	107.104	51.133	-34.569	1.00105.66	TS20	TS20
ATOM	51440	CD	LYS	T	87	107.877	50.286	-33.564	1.00105.66	TS20	TS20
ATOM	51441	CE	LYS	T	87	109.126	51.007	-33.057	1.00105.66	TS20	TS20
ATOM	51442	NZ	LYS	T	87	109.746	50.308	-31.891	1.00105.66	TS20	TS20
ATOM	51443	C	LYS	T	87	103.786	50.473	-36.378	1.00	61.14	TS20
ATOM	51444	O	LYS	T	87	103.665	50.445	-37.603	1.00	61.14	TS20
ATOM	51445	N	VAL	T	88	103.024	49.752	-35.561	1.00	75.33	TS20
ATOM	51446	CA	VAL	T	88	102.020	48.831	-36.083	1.00	75.33	TS20
ATOM	51447	CB	VAL	T	88	101.243	48.113	-34.968	1.00	58.98	TS20
ATOM	51448	CG1	VAL	T	88	100.156	47.250	-35.596	1.00	58.98	TS20
ATOM	51449	CG2	VAL	T	88	102.193	47.257	-34.125	1.00	58.98	TS20
ATOM	51450	C	VAL	T	88	101.000	49.444	-37.018	1.00	75.33	TS20
ATOM	51451	O	VAL	T	88	100.785	48.930	-38.114	1.00	75.33	TS20
ATOM	51452	N	ARG	T	89	100.355	50.525	-36.599	1.00	85.69	TS20
ATOM	51453	CA	ARG	T	89	99.366	51.121	-37.477	1.00	85.69	TS20
ATOM	51454	CB	ARG	T	89	98.814	52.429	-36.902	1.00	79.78	TS20
ATOM	51455	CG	ARG	T	89	97.928	53.157	-37.901	1.00	79.78	TS20
ATOM	51456	CD	ARG	T	89	97.135	54.291	-37.299	1.00	79.78	TS20
ATOM	51457	NE	ARG	T	89	95.964	53.808	-36.578	1.00	79.78	TS20
ATOM	51458	CZ	ARG	T	89	94.937	54.572	-36.206	1.00	79.78	TS20
ATOM	51459	NH1	ARG	T	89	94.928	55.862	-36.491	1.00	79.78	TS20
ATOM	51460	NH2	ARG	T	89	93.914	54.050	-35.538	1.00	79.78	TS20
ATOM	51461	C	ARG	T	89	99.973	51.364	-38.858	1.00	85.69	TS20
ATOM	51462	O	ARG	T	89	99.437	50.901	-39.870	1.00	85.69	TS20
ATOM	51463	N	GLN	T	90	101.105	52.060	-38.898	1.00	87.79	TS20
ATOM	51464	CA	GLN	T	90	101.762	52.361	-40.164	1.00	87.79	TS20
ATOM	51465	CB	GLN	T	90	103.043	53.146	-39.919	1.00139.33	TS20	TS20
ATOM	51466	CG	GLN	T	90	102.852	54.309	-38.984	1.00139.33	TS20	TS20
ATOM	51467	CD	GLN	T	90	104.091	55.164	-38.868	1.00139.33	TS20	TS20
ATOM	51468	OE1	GLN	T	90	105.213	54.655	-38.848	1.00139.33	TS20	TS20
ATOM	51469	NE2	GLN	T	90	103.897	56.476	-38.776	1.00139.33	TS20	TS20
ATOM	51470	C	GLN	T	90	102.080	51.121	-40.990	1.00	87.79	TS20
ATOM	51471	O	GLN	T	90	101.771	51.070	-42.177	1.00	87.79	TS20
ATOM	51472	N	LEU	T	91	102.700	50.121	-40.375	1.00	69.71	TS20
ATOM	51473	CA	LEU	T	91	103.046	48.907	-41.105	1.00	69.71	TS20
ATOM	51474	CB	LEU	T	91	103.741	47.916	-40.175	1.00	56.84	TS20
ATOM	51475	CG	LEU	T	91	105.213	48.258	-39.951	1.00	56.84	TS20
ATOM	51476	CD1	LEU	T	91	105.577	48.133	-38.478	1.00	56.84	TS20
ATOM	51477	CD2	LEU	T	91	106.068	47.351	-40.825	1.00	56.84	TS20
ATOM	51478	C	LEU	T	91	101.817	48.274	-41.735	1.00	69.71	TS20
ATOM	51479	O	LEU	T	91	101.909	47.551	-42.733	1.00	69.71	TS20
ATOM	51480	N	LEU	T	92	100.663	48.559	-41.150	1.00	91.24	TS20
ATOM	51481	CA	LEU	T	92	99.424	48.031	-41.670	1.00	91.24	TS20
ATOM	51482	CB	LEU	T	92	98.342	48.123	-40.602	1.00	64.10	TS20
ATOM	51483	CG	LEU	T	92	98.649	47.062	-39.539	1.00	64.10	TS20
ATOM	51484	CD1	LEU	T	92	97.831	47.269	-38.271	1.00	64.10	TS20
ATOM	51485	CD2	LEU	T	92	98.382	45.693	-40.152	1.00	64.10	TS20
ATOM	51486	C	LEU	T	92	99.043	48.785	-42.936	1.00	91.24	TS20



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ATOM	51487	O	LEU	T	92	98.247	48.300	-43.741	1.00	91.24	TS20
ATOM	51488	N	GLU	T	93	99.615	49.975	-43.112	1.00	71.82	TS20
ATOM	51489	CA	GLU	T	93	99.364	50.758	-44.320	1.00	71.82	TS20
ATOM	51490	CB	GLU	T	93	99.927	52.178	-44.186	1.00	149.65	TS20
ATOM	51491	CG	GLU	T	93	99.454	52.963	-42.947	1.00	149.65	TS20
ATOM	51492	CD	GLU	T	93	97.935	53.107	-42.838	1.00	149.65	TS20
ATOM	51493	OE1	GLU	T	93	97.470	53.935	-42.019	1.00	149.65	TS20
ATOM	51494	OE2	GLU	T	93	97.207	52.390	-43.556	1.00	149.65	TS20
ATOM	51495	C	GLU	T	93	100.114	49.981	-45.403	1.00	71.82	TS20
ATOM	51496	O	GLU	T	93	101.218	50.337	-45.830	1.00	71.82	TS20
ATOM	51497	N	ALA	T	94	99.496	48.880	-45.797	1.00	85.95	TS20
ATOM	51498	CA	ALA	T	94	100.028	47.977	-46.792	1.00	85.95	TS20
ATOM	51499	CB	ALA	T	94	101.148	47.148	-46.186	1.00	62.16	TS20
ATOM	51500	C	ALA	T	94	98.839	47.094	-47.147	1.00	85.95	TS20
ATOM	51501	O	ALA	T	94	98.990	45.896	-47.405	1.00	85.95	TS20
ATOM	51502	N	ALA	T	95	97.659	47.722	-47.138	1.00	163.46	TS20
ATOM	51503	CA	ALA	T	95	96.358	47.102	-47.430	1.00	163.46	TS20
ATOM	51504	CB	ALA	T	95	96.509	45.965	-48.447	1.00	56.80	TS20
ATOM	51505	C	ALA	T	95	95.712	46.580	-46.148	1.00	163.46	TS20
ATOM	51506	O	ALA	T	95	94.724	45.843	-46.188	1.00	163.46	TS20
ATOM	51507	N	GLY	T	96	96.273	46.994	-45.015	1.00	70.69	TS20
ATOM	51508	CA	GLY	T	96	95.790	46.562	-43.718	1.00	70.69	TS20
ATOM	51509	C	GLY	T	96	94.293	46.495	-43.494	1.00	70.69	TS20
ATOM	51510	O	GLY	T	96	93.687	45.425	-43.576	1.00	70.69	TS20
ATOM	51511	N	ALA	T	97	93.688	47.641	-43.214	1.00	86.06	TS20
ATOM	51512	CA	ALA	T	97	92.265	47.678	-42.926	1.00	86.06	TS20
ATOM	51513	CB	ALA	T	97	91.484	46.942	-43.999	1.00	30.06	TS20
ATOM	51514	C	ALA	T	97	92.163	46.951	-41.591	1.00	86.06	TS20
ATOM	51515	O	ALA	T	97	91.804	45.773	-41.538	1.00	86.06	TS20
ATOM	51516	N	PRO	T	98	92.498	47.653	-40.491	1.00	105.17	TS20
ATOM	51517	CD	PRO	T	98	92.718	49.110	-40.454	1.00	79.87	TS20
ATOM	51518	CA	PRO	T	98	92.468	47.121	-39.129	1.00	105.17	TS20
ATOM	51519	CB	PRO	T	98	92.843	48.334	-38.274	1.00	79.87	TS20
ATOM	51520	CG	PRO	T	98	92.292	49.462	-39.042	1.00	79.87	TS20
ATOM	51521	C	PRO	T	98	91.132	46.521	-38.735	1.00	105.17	TS20
ATOM	51522	O	PRO	T	98	90.292	47.188	-38.125	1.00	105.17	TS20
ATOM	51523	N	LEU	T	99	90.947	45.257	-39.099	1.00	126.12	TS20
ATOM	51524	CA	LEU	T	99	89.730	44.540	-38.769	1.00	126.12	TS20
ATOM	51525	CB	LEU	T	99	89.877	43.052	-39.096	1.00	119.19	TS20
ATOM	51526	CG	LEU	T	99	90.221	42.664	-40.531	1.00	119.19	TS20
ATOM	51527	CD1	LEU	T	99	90.384	41.151	-40.615	1.00	119.19	TS20
ATOM	51528	CD2	LEU	T	99	89.126	43.148	-41.472	1.00	119.19	TS20
ATOM	51529	C	LEU	T	99	89.540	44.697	-37.273	1.00	126.12	TS20
ATOM	51530	O	LEU	T	99	88.738	45.512	-36.815	1.00	126.12	TS20
ATOM	51531	N	ILE	T	100	90.310	43.918	-36.522	1.00	79.76	TS20
ATOM	51532	CA	ILE	T	100	90.256	43.931	-35.068	1.00	79.76	TS20
ATOM	51533	CB	ILE	T	100	91.409	43.085	-34.473	1.00	196.50	TS20
ATOM	51534	CG2	ILE	T	100	91.497	43.282	-32.963	1.00	196.50	TS20
ATOM	51535	CG1	ILE	T	100	91.180	41.614	-34.820	1.00	196.50	TS20
ATOM	51536	CD1	ILE	T	100	92.145	40.669	-34.177	1.00	196.50	TS20
ATOM	51537	C	ILE	T	100	90.295	45.338	-34.479	1.00	79.76	TS20
ATOM	51538	O	ILE	T	100	89.590	45.630	-33.506	1.00	79.76	TS20
ATOM	51539	N	GLY	T	101	91.115	46.204	-35.070	1.00	194.35	TS20
ATOM	51540	CA	GLY	T	101	91.237	47.570	-34.589	1.00	194.35	TS20
ATOM	51541	C	GLY	T	101	91.184	47.635	-33.076	1.00	194.35	TS20
ATOM	51542	O	GLY	T	101	90.702	48.615	-32.507	1.00	194.35	TS20
ATOM	51543	N	GLY	T	102	91.672	46.580	-32.431	1.00	110.53	TS20
ATOM	51544	CA	GLY	T	102	91.668	46.522	-30.985	1.00	110.53	TS20
ATOM	51545	C	GLY	T	102	92.150	47.823	-30.387	1.00	110.53	TS20
ATOM	51546	O	GLY	T	102	91.361	48.736	-30.172	1.00	110.53	TS20
ATOM	51547	N	GLY	T	103	93.449	47.913	-30.125	1.00	173.24	TS20
ATOM	51548	CA	GLY	T	103	94.008	49.124	-29.551	1.00	173.24	TS20
ATOM	51549	C	GLY	T	103	94.374	50.159	-30.596	1.00	173.24	TS20
ATOM	51550	O	GLY	T	103	95.534	50.537	-30.723	1.00	173.24	TS20
ATOM	51551	N	LEU	T	104	93.378	50.612	-31.347	1.00	70.03	TS20
ATOM	51552	CA	LEU	T	104	93.577	51.612	-32.390	1.00	70.03	TS20
ATOM	51553	CB	LEU	T	104	94.052	50.980	-33.696	1.00	80.61	TS20
ATOM	51554	CG	LEU	T	104	95.492	50.484	-33.788	1.00	80.61	TS20
ATOM	51555	CD1	LEU	T	104	95.776	50.090	-35.223	1.00	80.61	TS20
ATOM	51556	CD2	LEU	T	104	96.461	51.566	-33.345	1.00	80.61	TS20
ATOM	51557	C	LEU	T	104	92.288	52.341	-32.679	1.00	70.03	TS20
ATOM	51558	O	LEU	T	104	91.388	51.790	-33.312	1.00	70.03	TS20
ATOM	51559	N	SER	T	105	92.207	53.580	-32.212	1.00	74.20	TS20
ATOM	51560	CA	SER	T	105	91.043	54.426	-32.427	1.00	74.20	TS20
ATOM	51561	CB	SER	T	105	91.354	55.836	-31.904	1.00	81.62	TS20
ATOM	51562	OG	SER	T	105	90.460	56.810	-32.391	1.00	81.62	TS20
ATOM	51563	C	SER	T	105	90.709	54.446	-33.921	1.00	74.20	TS20



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ATOM	51564	O	SER	T	105	91.550	54.783	-34.757	1.00	74.20	TS20
ATOM	51565	N	ALA	T	106	89.475	54.069	-34.243	1.00	87.87	TS20
ATOM	51566	CA	ALA	T	106	88.999	54.013	-35.626	1.00	87.87	TS20
ATOM	51567	CB	ALA	T	106	87.476	53.901	-35.640	1.00	107.26	TS20
ATOM	51568	C	ALA	T	106	89.442	55.190	-36.494	1.00	87.87	TS20
ATOM	51569	O	ALA	T	106	90.103	54.934	-37.524	1.00	87.87	TS20
ATOM	51570	OXT	ALA	T	106	89.115	56.346	-36.146	1.00	136.23	TS20
TER	51570		ALA	T	106						TS20
ATOM	51571	C	GLY	V	2	249.429	126.562	-1.758	1.00	67.96	VTHX
ATOM	51572	O	GLY	V	2	250.007	126.171	-0.745	1.00	67.96	VTHX
ATOM	51573	N	GLY	V	2	251.486	125.868	-3.007	1.00	67.96	VTHX
ATOM	51574	CA	GLY	V	2	250.085	126.384	-3.114	1.00	67.96	VTHX
ATOM	51575	N	LYS	V	3	248.230	127.144	-1.728	1.00	61.65	VTHX
ATOM	51576	CA	LYS	V	3	247.525	127.371	-0.468	1.00	61.65	VTHX
ATOM	51577	CB	LYS	V	3	246.045	127.676	-0.721	1.00	61.10	VTHX
ATOM	51578	CG	LYS	V	3	245.776	129.024	-1.382	1.00	61.10	VTHX
ATOM	51579	CD	LYS	V	3	244.298	129.192	-1.752	1.00	61.10	VTHX
ATOM	51580	CE	LYS	V	3	244.078	130.427	-2.636	1.00	61.10	VTHX
ATOM	51581	NZ	LYS	V	3	242.724	130.481	-3.297	1.00	61.10	VTHX
ATOM	51582	C	LYS	V	3	247.635	126.160	0.446	1.00	61.65	VTHX
ATOM	51583	O	LYS	V	3	247.362	126.244	1.639	1.00	61.65	VTHX
ATOM	51584	N	GLY	V	4	248.054	125.031	-0.110	1.00	44.23	VTHX
ATOM	51585	CA	GLY	V	4	248.157	123.835	0.697	1.00	44.23	VTHX
ATOM	51586	C	GLY	V	4	249.528	123.447	1.183	1.00	44.23	VTHX
ATOM	51587	O	GLY	V	4	249.655	122.412	1.827	1.00	44.23	VTHX
ATOM	51588	N	ASP	V	5	250.552	124.248	0.889	1.00	66.68	VTHX
ATOM	51589	CA	ASP	V	5	251.920	123.932	1.327	1.00	66.68	VTHX
ATOM	51590	CB	ASP	V	5	252.939	124.347	0.270	1.00	130.06	VTHX
ATOM	51591	CG	ASP	V	5	254.324	123.826	0.573	1.00	130.06	VTHX
ATOM	51592	OD1	ASP	V	5	254.714	123.825	1.762	1.00	130.06	VTHX
ATOM	51593	OD2	ASP	V	5	255.026	123.423	-0.377	1.00	130.06	VTHX
ATOM	51594	C	ASP	V	5	252.256	124.646	2.629	1.00	66.68	VTHX
ATOM	51595	O	ASP	V	5	252.721	125.788	2.603	1.00	66.68	VTHX
ATOM	51596	N	ARG	V	6	252.050	123.963	3.756	1.00	81.32	VTHX
ATOM	51597	CA	ARG	V	6	252.295	124.576	5.048	1.00	81.32	VTHX
ATOM	51598	CB	ARG	V	6	251.994	123.600	6.194	1.00	173.79	VTHX
ATOM	51599	CG	ARG	V	6	252.101	122.129	5.879	1.00	173.79	VTHX
ATOM	51600	CD	ARG	V	6	251.552	121.307	7.057	1.00	173.79	VTHX
ATOM	51601	NE	ARG	V	6	252.328	121.486	8.292	1.00	173.79	VTHX
ATOM	51602	CZ	ARG	V	6	251.924	121.127	9.515	1.00	173.79	VTHX
ATOM	51603	NH1	ARG	V	6	250.735	120.564	9.696	1.00	173.79	VTHX
ATOM	51604	NH2	ARG	V	6	252.717	121.321	10.566	1.00	173.79	VTHX
ATOM	51605	C	ARG	V	6	253.663	125.211	5.231	1.00	81.32	VTHX
ATOM	51606	O	ARG	V	6	253.832	126.070	6.095	1.00	81.32	VTHX
ATOM	51607	N	ARG	V	7	254.647	124.829	4.427	1.00	76.57	VTHX
ATOM	51608	CA	ARG	V	7	255.941	125.462	4.602	1.00	76.57	VTHX
ATOM	51609	CB	ARG	V	7	257.040	124.405	4.792	1.00	82.30	VTHX
ATOM	51610	CG	ARG	V	7	257.333	123.549	3.606	1.00	82.30	VTHX
ATOM	51611	CD	ARG	V	7	258.626	122.771	3.823	1.00	82.30	VTHX
ATOM	51612	NE	ARG	V	7	258.438	121.579	4.647	1.00	82.30	VTHX
ATOM	51613	CZ	ARG	V	7	259.331	120.593	4.758	1.00	82.30	VTHX
ATOM	51614	NH1	ARG	V	7	260.490	120.658	4.100	1.00	82.30	VTHX
ATOM	51615	NH2	ARG	V	7	259.048	119.522	5.502	1.00	82.30	VTHX
ATOM	51616	C	ARG	V	7	256.301	126.479	3.500	1.00	76.57	VTHX
ATOM	51617	O	ARG	V	7	257.411	126.481	2.958	1.00	76.57	VTHX
ATOM	51618	N	THR	V	8	255.334	127.345	3.184	1.00	64.90	VTHX
ATOM	51619	CA	THR	V	8	255.495	128.422	2.197	1.00	64.90	VTHX
ATOM	51620	CB	THR	V	8	254.983	128.050	0.767	1.00	107.56	VTHX
ATOM	51621	OG1	THR	V	8	253.562	127.864	0.785	1.00	107.56	VTHX
ATOM	51622	CG2	THR	V	8	255.654	126.792	0.261	1.00	107.56	VTHX
ATOM	51623	C	THR	V	8	254.664	129.609	2.680	1.00	64.90	VTHX
ATOM	51624	O	THR	V	8	253.821	129.469	3.574	1.00	64.90	VTHX
ATOM	51625	N	ARG	V	9	254.894	130.771	2.081	1.00	69.19	VTHX
ATOM	51626	CA	ARG	V	9	254.167	131.978	2.457	1.00	69.19	VTHX
ATOM	51627	CB	ARG	V	9	254.467	133.098	1.452	1.00	162.02	VTHX
ATOM	51628	CG	ARG	V	9	254.204	134.506	1.967	1.00	162.02	VTHX
ATOM	51629	CD	ARG	V	9	255.057	134.813	3.193	1.00	162.02	VTHX
ATOM	51630	NE	ARG	V	9	254.837	136.170	3.690	1.00	162.02	VTHX
ATOM	51631	CZ	ARG	V	9	255.308	136.635	4.845	1.00	162.02	VTHX
ATOM	51632	NH1	ARG	V	9	256.033	135.853	5.637	1.00	162.02	VTHX
ATOM	51633	NH2	ARG	V	9	255.051	137.885	5.210	1.00	162.02	VTHX
ATOM	51634	C	ARG	V	9	252.667	131.683	2.493	1.00	69.19	VTHX
ATOM	51635	O	ARG	V	9	252.063	131.643	3.567	1.00	69.19	VTHX
ATOM	51636	N	ARG	V	10	252.084	131.445	1.316	1.00	77.09	VTHX
ATOM	51637	CA	ARG	V	10	250.655	131.163	1.181	1.00	77.09	VTHX
ATOM	51638	CB	ARG	V	10	250.343	130.736	-0.252	1.00	109.65	VTHX
ATOM	51639	CG	ARG	V	10	250.791	131.784	-1.231	1.00	109.65	VTHX



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ATOM	51640	CD	ARG	V	10	250.164	131.669	-2.599	1.00109.65	VTHX
ATOM	51641	NE	ARG	V	10	250.423	132.898	-3.350	1.00109.65	VTHX
ATOM	51642	CZ	ARG	V	10	249.901	133.198	-4.537	1.00109.65	VTHX
ATOM	51643	NH1	ARG	V	10	249.074	132.352	-5.140	1.00109.65	VTHX
ATOM	51644	NH2	ARG	V	10	250.194	134.359	-5.116	1.00109.65	VTHX
ATOM	51645	C	ARG	V	10	250.168	130.119	2.166	1.00 77.09	VTHX
ATOM	51646	O	ARG	V	10	249.176	130.335	2.864	1.00 77.09	VTHX
ATOM	51647	N	GLY	V	11	250.866	128.991	2.228	1.00 67.71	VTHX
ATOM	51648	CA	GLY	V	11	250.481	127.949	3.159	1.00 67.71	VTHX
ATOM	51649	C	GLY	V	11	250.080	128.564	4.485	1.00 67.71	VTHX
ATOM	51650	O	GLY	V	11	248.930	128.438	4.902	1.00 67.71	VTHX
ATOM	51651	N	LYS	V	12	251.022	129.248	5.136	1.00 70.92	VTHX
ATOM	51652	CA	LYS	V	12	250.765	129.891	6.424	1.00 70.92	VTHX
ATOM	51653	CB	LYS	V	12	252.009	130.627	6.924	1.00 65.01	VTHX
ATOM	51654	CG	LYS	V	12	252.875	129.840	7.906	1.00 65.01	VTHX
ATOM	51655	CD	LYS	V	12	253.459	128.595	7.269	1.00 65.01	VTHX
ATOM	51656	CE	LYS	V	12	254.466	127.929	8.188	1.00 65.01	VTHX
ATOM	51657	NZ	LYS	V	12	253.855	127.459	9.461	1.00 65.01	VTHX
ATOM	51658	C	LYS	V	12	249.610	130.870	6.353	1.00 70.92	VTHX
ATOM	51659	O	LYS	V	12	248.672	130.772	7.129	1.00 70.92	VTHX
ATOM	51660	N	ILE	V	13	249.685	131.821	5.432	1.00 68.45	VTHX
ATOM	51661	CA	ILE	V	13	248.619	132.806	5.270	1.00 68.45	VTHX
ATOM	51662	CB	ILE	V	13	248.712	133.516	3.916	1.00 57.55	VTHX
ATOM	51663	CG2	ILE	V	13	247.626	134.577	3.808	1.00 57.55	VTHX
ATOM	51664	CG1	ILE	V	13	250.103	134.114	3.736	1.00 57.55	VTHX
ATOM	51665	CD1	ILE	V	13	250.425	134.456	2.283	1.00 57.55	VTHX
ATOM	51666	C	ILE	V	13	247.260	132.118	5.300	1.00 68.45	VTHX
ATOM	51667	O	ILE	V	13	246.345	132.543	6.018	1.00 68.45	VTHX
ATOM	51668	N	TRP	V	14	247.143	131.062	4.495	1.00 67.33	VTHX
ATOM	51669	CA	TRP	V	14	245.911	130.287	4.370	1.00 67.33	VTHX
ATOM	51670	CB	TRP	V	14	246.104	129.150	3.366	1.00 62.81	VTHX
ATOM	51671	CG	TRP	V	14	244.822	128.527	2.879	1.00 62.81	VTHX
ATOM	51672	CD2	TRP	V	14	244.198	127.334	3.376	1.00 62.81	VTHX
ATOM	51673	CE2	TRP	V	14	243.019	127.133	2.625	1.00 62.81	VTHX
ATOM	51674	CE3	TRP	V	14	244.520	126.417	4.383	1.00 62.81	VTHX
ATOM	51675	CD1	TRP	V	14	244.016	128.989	1.875	1.00 62.81	VTHX
ATOM	51676	NE1	TRP	V	14	242.932	128.156	1.716	1.00 62.81	VTHX
ATOM	51677	CZ2	TRP	V	14	242.162	126.053	2.850	1.00 62.81	VTHX
ATOM	51678	CZ3	TRP	V	14	243.668	125.344	4.604	1.00 62.81	VTHX
ATOM	51679	CH2	TRP	V	14	242.502	125.173	3.840	1.00 62.81	VTHX
ATOM	51680	C	TRP	V	14	245.522	129.696	5.707	1.00 67.33	VTHX
ATOM	51681	O	TRP	V	14	244.451	129.977	6.237	1.00 67.33	VTHX
ATOM	51682	N	ARG	V	15	246.405	128.864	6.242	1.00 75.57	VTHX
ATOM	51683	CA	ARG	V	15	246.166	128.228	7.520	1.00 75.57	VTHX
ATOM	51684	CB	ARG	V	15	247.235	127.176	7.788	1.00 80.98	VTHX
ATOM	51685	CG	ARG	V	15	246.901	125.811	7.236	1.00 80.98	VTHX
ATOM	51686	CD	ARG	V	15	248.006	124.865	7.587	1.00 80.98	VTHX
ATOM	51687	NE	ARG	V	15	247.561	123.485	7.745	1.00 80.98	VTHX
ATOM	51688	CZ	ARG	V	15	248.353	122.494	8.158	1.00 80.98	VTHX
ATOM	51689	NH1	ARG	V	15	249.624	122.737	8.447	1.00 80.98	VTHX
ATOM	51690	NH2	ARG	V	15	247.876	121.262	8.298	1.00 80.98	VTHX
ATOM	51691	C	ARG	V	15	246.146	129.244	8.647	1.00 75.57	VTHX
ATOM	51692	O	ARG	V	15	246.026	128.875	9.816	1.00 75.57	VTHX
ATOM	51693	N	GLY	V	16	246.257	130.524	8.290	1.00 89.21	VTHX
ATOM	51694	CA	GLY	V	16	246.253	131.588	9.283	1.00 89.21	VTHX
ATOM	51695	C	GLY	V	16	247.289	131.398	10.380	1.00 89.21	VTHX
ATOM	51696	O	GLY	V	16	246.981	131.491	11.570	1.00 89.21	VTHX
ATOM	51697	N	THR	V	17	248.525	131.130	9.978	1.00 60.91	VTHX
ATOM	51698	CA	THR	V	17	249.599	130.919	10.931	1.00 60.91	VTHX
ATOM	51699	CB	THR	V	17	249.998	129.424	11.023	1.00 52.27	VTHX
ATOM	51700	OG1	THR	V	17	250.207	128.914	9.703	1.00 52.27	VTHX
ATOM	51701	CG2	THR	V	17	248.936	128.607	11.722	1.00 52.27	VTHX
ATOM	51702	C	THR	V	17	250.857	131.704	10.581	1.00 60.91	VTHX
ATOM	51703	O	THR	V	17	250.941	132.392	9.556	1.00 60.91	VTHX
ATOM	51704	N	TYR	V	18	251.836	131.574	11.465	1.00 75.70	VTHX
ATOM	51705	CA	TYR	V	18	253.119	132.221	11.318	1.00 75.70	VTHX
ATOM	51706	CB	TYR	V	18	253.209	133.400	12.268	1.00 63.74	VTHX
ATOM	51707	CG	TYR	V	18	252.215	134.490	11.994	1.00 63.74	VTHX
ATOM	51708	CD1	TYR	V	18	251.066	134.624	12.767	1.00 63.74	VTHX
ATOM	51709	CE1	TYR	V	18	250.171	135.681	12.550	1.00 63.74	VTHX
ATOM	51710	CD2	TYR	V	18	252.451	135.426	10.987	1.00 63.74	VTHX
ATOM	51711	CE2	TYR	V	18	251.568	136.481	10.756	1.00 63.74	VTHX
ATOM	51712	CZ	TYR	V	18	250.428	136.610	11.542	1.00 63.74	VTHX
ATOM	51713	OH	TYR	V	18	249.571	137.678	11.323	1.00 63.74	VTHX
ATOM	51714	C	TYR	V	18	254.196	131.205	11.671	1.00 75.70	VTHX
ATOM	51715	O	TYR	V	18	253.949	130.263	12.426	1.00 75.70	VTHX
ATOM	51716	N	GLY	V	19	255.392	131.399	11.134	1.00 71.87	VTHX



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ATOM	51717	CA	GLY	V	19	256.471	130.476	11.422	1.00	71.87	VTHX
ATOM	51718	C	GLY	V	19	257.689	130.847	10.616	1.00	71.87	VTHX
ATOM	51719	O	GLY	V	19	257.757	131.945	10.057	1.00	71.87	VTHX
ATOM	51720	N	LYS	V	20	258.653	129.941	10.542	1.00	99.33	VTHX
ATOM	51721	CA	LYS	V	20	259.855	130.231	9.787	1.00	99.33	VTHX
ATOM	51722	CB	LYS	V	20	260.811	129.041	9.785	1.00	94.69	VTHX
ATOM	51723	CG	LYS	V	20	262.167	129.403	9.200	1.00	94.69	VTHX
ATOM	51724	CD	LYS	V	20	263.149	128.252	9.217	1.00	94.69	VTHX
ATOM	51725	CE	LYS	V	20	262.900	127.295	8.078	1.00	94.69	VTHX
ATOM	51726	NZ	LYS	V	20	264.096	126.438	7.896	1.00	94.69	VTHX
ATOM	51727	C	LYS	V	20	259.501	130.576	8.355	1.00	99.33	VTHX
ATOM	51728	O	LYS	V	20	260.323	131.120	7.620	1.00	99.33	VTHX
ATOM	51729	N	TYR	V	21	258.275	130.267	7.956	1.00	87.34	VTHX
ATOM	51730	CA	TYR	V	21	257.865	130.553	6.599	1.00	87.34	VTHX
ATOM	51731	CB	TYR	V	21	257.194	129.324	6.016	1.00	63.50	VTHX
ATOM	51732	CG	TYR	V	21	258.206	128.231	5.836	1.00	63.50	VTHX
ATOM	51733	CD1	TYR	V	21	258.464	127.303	6.857	1.00	63.50	VTHX
ATOM	51734	CE1	TYR	V	21	259.513	126.358	6.739	1.00	63.50	VTHX
ATOM	51735	CD2	TYR	V	21	259.002	128.194	4.691	1.00	63.50	VTHX
ATOM	51736	CE2	TYR	V	21	260.051	127.264	4.559	1.00	63.50	VTHX
ATOM	51737	CZ	TYR	V	21	260.307	126.352	5.581	1.00	63.50	VTHX
ATOM	51738	OH	TYR	V	21	261.365	125.472	5.435	1.00	63.50	VTHX
ATOM	51739	C	TYR	V	21	257.003	131.791	6.459	1.00	87.34	VTHX
ATOM	51740	O	TYR	V	21	256.746	132.259	5.353	1.00	87.34	VTHX
ATOM	51741	N	ARG	V	22	256.579	132.338	7.588	1.00	109.22	VTHX
ATOM	51742	CA	ARG	V	22	255.768	133.545	7.595	1.00	109.22	VTHX
ATOM	51743	CB	ARG	V	22	254.313	133.229	7.264	1.00	68.97	VTHX
ATOM	51744	CG	ARG	V	22	253.438	134.463	7.156	1.00	68.97	VTHX
ATOM	51745	CD	ARG	V	22	251.969	134.130	7.392	1.00	68.97	VTHX
ATOM	51746	NE	ARG	V	22	251.134	135.322	7.285	1.00	68.97	VTHX
ATOM	51747	CZ	ARG	V	22	249.912	135.427	7.793	1.00	68.97	VTHX
ATOM	51748	NH1	ARG	V	22	249.379	134.402	8.450	1.00	68.97	VTHX
ATOM	51749	NH2	ARG	V	22	249.232	136.559	7.648	1.00	68.97	VTHX
ATOM	51750	C	ARG	V	22	255.860	134.116	8.995	1.00	109.22	VTHX
ATOM	51751	O	ARG	V	22	254.936	133.990	9.796	1.00	109.22	VTHX
ATOM	51752	N	PRO	V	23	256.992	134.742	9.314	1.00	94.65	VTHX
ATOM	51753	CD	PRO	V	23	258.187	134.913	8.475	1.00	136.83	VTHX
ATOM	51754	CA	PRO	V	23	257.194	135.330	10.639	1.00	94.65	VTHX
ATOM	51755	CB	PRO	V	23	258.651	135.784	10.595	1.00	136.83	VTHX
ATOM	51756	CG	PRO	V	23	259.265	134.920	9.505	1.00	136.83	VTHX
ATOM	51757	C	PRO	V	23	256.238	136.495	10.834	1.00	94.65	VTHX
ATOM	51758	O	PRO	V	23	255.532	136.878	9.903	1.00	94.65	VTHX
ATOM	51759	N	ARG	V	24	256.220	137.061	12.034	1.00	103.24	VTHX
ATOM	51760	CA	ARG	V	24	255.341	138.187	12.306	1.00	103.24	VTHX
ATOM	51761	CB	ARG	V	24	255.321	138.492	13.796	1.00	115.77	VTHX
ATOM	51762	CG	ARG	V	24	254.962	137.302	14.651	1.00	115.77	VTHX
ATOM	51763	CD	ARG	V	24	253.975	136.411	13.943	1.00	115.77	VTHX
ATOM	51764	NE	ARG	V	24	253.233	135.574	14.874	1.00	115.77	VTHX
ATOM	51765	CZ	ARG	V	24	252.251	136.022	15.647	1.00	115.77	VTHX
ATOM	51766	NH1	ARG	V	24	251.898	137.302	15.593	1.00	115.77	VTHX
ATOM	51767	NH2	ARG	V	24	251.617	135.191	16.466	1.00	115.77	VTHX
ATOM	51768	C	ARG	V	24	255.779	139.425	11.538	1.00	103.24	VTHX
ATOM	51769	O	ARG	V	24	254.995	139.992	10.768	1.00	103.24	VTHX
ATOM	51770	N	LYS	V	25	257.028	139.840	11.763	1.00	162.85	VTHX
ATOM	51771	CA	LYS	V	25	257.630	141.002	11.100	1.00	162.85	VTHX
ATOM	51772	CB	LYS	V	25	256.733	142.240	11.231	1.00	137.30	VTHX
ATOM	51773	CG	LYS	V	25	256.026	142.640	9.937	1.00	137.30	VTHX
ATOM	51774	CD	LYS	V	25	255.373	144.006	10.070	1.00	137.30	VTHX
ATOM	51775	CE	LYS	V	25	254.827	144.498	8.740	1.00	137.30	VTHX
ATOM	51776	NZ	LYS	V	25	254.334	145.902	8.835	1.00	137.30	VTHX
ATOM	51777	C	LYS	V	25	259.016	141.327	11.659	1.00	162.85	VTHX
ATOM	51778	O	LYS	V	25	259.432	140.660	12.630	1.00	162.85	VTHX
ATOM	51779	OXT	LYS	V	25	259.669	142.249	11.122	1.00	166.23	VTHX
TER	51779		LYS	V	25						VTHX
ATOM	51780	C1	PAC	W	1	207.178	105.375	-40.337	1.00	28.65	WPAC
ATOM	51781	N2	PAC	W	1	206.668	104.221	-39.486	1.00	28.65	WPAC
ATOM	51782	C3	PAC	W	1	207.133	103.607	-37.982	1.00	28.65	WPAC
ATOM	51783	N4	PAC	W	1	206.392	106.688	-40.473	1.00	28.65	WPAC
ATOM	51784	O5	PAC	W	1	208.289	105.202	-41.102	1.00	28.65	WPAC
ATOM	51785	C6	PAC	W	1	206.714	102.020	-37.914	1.00	28.65	WPAC
ATOM	51786	C7	PAC	W	1	206.609	104.273	-36.600	1.00	28.65	WPAC
ATOM	51787	C8	PAC	W	1	208.820	103.713	-37.924	1.00	28.65	WPAC
ATOM	51788	C9	PAC	W	1	206.148	107.421	-41.921	1.00	28.65	WPAC
ATOM	51789	C10	PAC	W	1	205.687	107.479	-39.248	1.00	28.65	WPAC
ATOM	51790	C11	PAC	W	1	207.791	101.157	-38.879	1.00	28.65	WPAC
ATOM	51791	O12	PAC	W	1	205.259	101.902	-38.490	1.00	28.65	WPAC
ATOM	51792	C13	PAC	W	1	205.027	104.837	-36.776	1.00	28.65	WPAC



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ATOM	51793	O14	PAC	W	1	206.708	103.196	-35.434	1.00	28.65	WPAC
ATOM	51794	C15	PAC	W	1	207.673	105.496	-36.318	1.00	28.65	WPAC
ATOM	51795	N16	PAC	W	1	209.659	103.897	-39.302	1.00	28.65	WPAC
ATOM	51796	C17	PAC	W	1	209.124	104.939	-36.872	1.00	28.65	WPAC
ATOM	51797	C18	PAC	W	1	207.588	105.845	-34.660	1.00	28.65	WPAC
ATOM	51798	O19	PAC	W	1	207.350	106.746	-37.145	1.00	28.65	WPAC
ATOM	51799	N20	PAC	W	1	210.086	104.369	-35.741	1.00	28.65	WPAC
ATOM	51800	O21	PAC	W	1	209.007	106.036	-34.062	1.00	28.65	WPAC
ATOM	51801	C22	PAC	W	1	211.362	105.237	-35.564	1.00	28.65	WPAC
ATOM	51802	C23	PAC	W	1	209.403	107.257	-33.221	1.00	28.65	WPAC
ATOM	51803	C24	PAC	W	1	211.298	106.732	-36.001	1.00	28.65	WPAC
ATOM	51804	C25	PAC	W	1	212.654	104.641	-34.973	1.00	28.65	WPAC
ATOM	51805	O26	PAC	W	1	208.591	108.351	-33.041	1.00	28.65	WPAC
ATOM	51806	C27	PAC	W	1	210.842	107.182	-32.553	1.00	28.65	WPAC
ATOM	51807	C28	PAC	W	1	212.499	107.620	-35.841	1.00	28.65	WPAC
ATOM	51808	C29	PAC	W	1	213.879	105.561	-34.823	1.00	28.65	WPAC
ATOM	51809	C30	PAC	W	1	211.789	108.384	-32.482	1.00	28.65	WPAC
ATOM	51810	C31	PAC	W	1	211.227	105.808	-31.986	1.00	28.65	WPAC
ATOM	51811	C32	PAC	W	1	212.382	109.156	-36.310	1.00	28.65	WPAC
ATOM	51812	C33	PAC	W	1	213.795	107.051	-35.257	1.00	28.65	WPAC
ATOM	51813	C34	PAC	W	1	211.354	109.877	-33.112	1.00	28.65	WPAC
ATOM	51814	C35	PAC	W	1	213.163	108.205	-31.824	1.00	28.65	WPAC
ATOM	51815	O36	PAC	W	1	210.206	104.651	-32.105	1.00	28.65	WPAC
ATOM	51816	C37	PAC	W	1	212.601	105.602	-31.326	1.00	28.65	WPAC
ATOM	51817	C38	PAC	W	1	213.662	110.019	-36.072	1.00	28.65	WPAC
ATOM	51818	O39	PAC	W	1	211.153	109.778	-36.926	1.00	28.65	WPAC
ATOM	51819	C40	PAC	W	1	213.574	106.811	-31.245	1.00	28.65	WPAC
TER	51819		PAC	W	1						WPAC
HETATM	51820	MG	MG	U	10	189.281	87.716	19.180	0.94	45.03	UION
HETATM	51821	MG	MG	U	23	236.244	114.084	-7.166	1.40	45.03	UION
HETATM	51822	MG	MG	U	24	228.882	111.577	13.422	1.34	45.03	UION
HETATM	51823	MG	MG	U	27	165.254	105.933	-5.591	1.10	45.03	UION
HETATM	51824	MG	MG	U	32	158.288	113.396	-64.171	0.88	45.03	UION
HETATM	51825	MG	MG	U	34	173.477	113.930	-2.192	0.74	45.03	UION
HETATM	51826	MG	MG	U	42	114.567	64.657	18.426	1.23	45.03	UION
HETATM	51827	MG	MG	U	45	134.195	124.063	-58.262	1.10	45.03	UION
HETATM	51828	MG	MG	U	48	171.274	94.543	-49.699	1.75	45.03	UION
HETATM	51829	MG	MG	U	49	177.888	94.636	-52.939	1.53	45.03	UION
HETATM	51830	MG	MG	U	50	180.267	86.887	-56.659	1.38	45.03	UION
HETATM	51831	MG	MG	U	53	198.708	98.306	-54.234	0.86	45.03	UION
HETATM	51832	MG	MG	U	54	162.954	106.152	-38.481	1.58	45.03	UION
HETATM	51833	MG	MG	U	55	159.812	127.550	-45.307	1.22	45.03	UION
HETATM	51834	MG	MG	U	59	167.076	109.445	17.012	1.38	45.03	UION
HETATM	51835	MG	MG	U	60	150.677	99.944	-8.702	1.15	45.03	UION
HETATM	51836	MG	MG	U	61	180.522	109.168	-2.051	1.20	45.03	UION
HETATM	51837	MG	MG	U	63	159.455	106.070	-16.145	1.57	45.03	UION
HETATM	51838	MG	MG	U	65	118.432	102.084	-26.395	1.35	45.03	UION
HETATM	51839	MG	MG	U	68	166.267	127.044	-31.848	1.09	45.03	UION
HETATM	51840	MG	MG	U	70	158.082	115.973	-15.759	1.17	45.03	UION
HETATM	51841	MG	MG	U	71	161.301	131.616	-23.455	1.41	45.03	UION
HETATM	51842	MG	MG	U	73	168.218	90.512	-12.844	1.05	45.03	UION
HETATM	51843	MG	MG	U	75	223.370	126.603	-21.140	1.40	45.03	UION
HETATM	51844	MG	MG	U	76	217.810	136.533	-12.237	1.11	45.03	UION
HETATM	51845	MG	MG	U	77	221.650	131.000	-12.631	0.29	45.03	UION
HETATM	51846	MG	MG	U	78	219.390	125.715	-14.295	0.86	45.03	UION
HETATM	51847	MG	MG	U	79	233.275	139.524	-3.045	1.13	45.03	UION
HETATM	51848	MG	MG	U	81	167.231	131.921	-6.957	1.08	45.03	UION
HETATM	51849	MG	MG	U	82	125.243	96.855	26.463	1.27	45.03	UION
HETATM	51850	MG	MG	U	86	130.769	111.706	-37.268	1.15	45.03	UION
HETATM	51851	MG	MG	U	87	126.431	118.533	-56.411	0.87	45.03	UION
HETATM	51852	MG	MG	U	90	209.838	110.751	10.542	1.34	45.03	UION
HETATM	51853	MG	MG	U	91	230.939	110.817	25.182	0.75	45.03	UION
HETATM	51854	MG	MG	U	92	233.596	122.298	26.584	1.16	45.03	UION
HETATM	51855	MG	MG	U	95	202.633	116.024	9.642	1.10	45.03	UION
HETATM	51856	MG	MG	U	96	204.059	111.725	8.003	1.38	45.03	UION
HETATM	51857	MG	MG	U	113	148.239	103.069	-4.066	1.40	45.03	UION
HETATM	51858	MG	MG	U	114	114.558	51.896	-12.156	1.16	45.03	UION
HETATM	51859	MG	MG	U	115	192.443	107.153	-8.552	0.88	45.03	UION
HETATM	51860	MG	MG	U	116	194.969	106.263	-7.004	0.49	45.03	UION
HETATM	51861	MG	MG	U	117	187.548	101.843	22.416	1.05	45.03	UION
HETATM	51862	MG	MG	U	118	169.255	104.756	-25.975	1.64	45.03	UION
HETATM	51863	MG	MG	U	126	168.070	74.762	-43.486	0.67	45.03	UION
HETATM	51864	MG	MG	U	130	205.300	143.833	0.345	1.50	45.03	UION
HETATM	51865	MG	MG	U	132	171.653	125.118	-16.617	1.17	45.03	UION
HETATM	51866	MG	MG	U	133	197.823	137.043	-14.635	1.15	45.03	UION
HETATM	51867	MG	MG	U	134	194.966	144.463	-5.754	1.13	45.03	UION
HETATM	51868	MG	MG	U	136	144.498	73.331	-20.103	0.95	45.03	UION

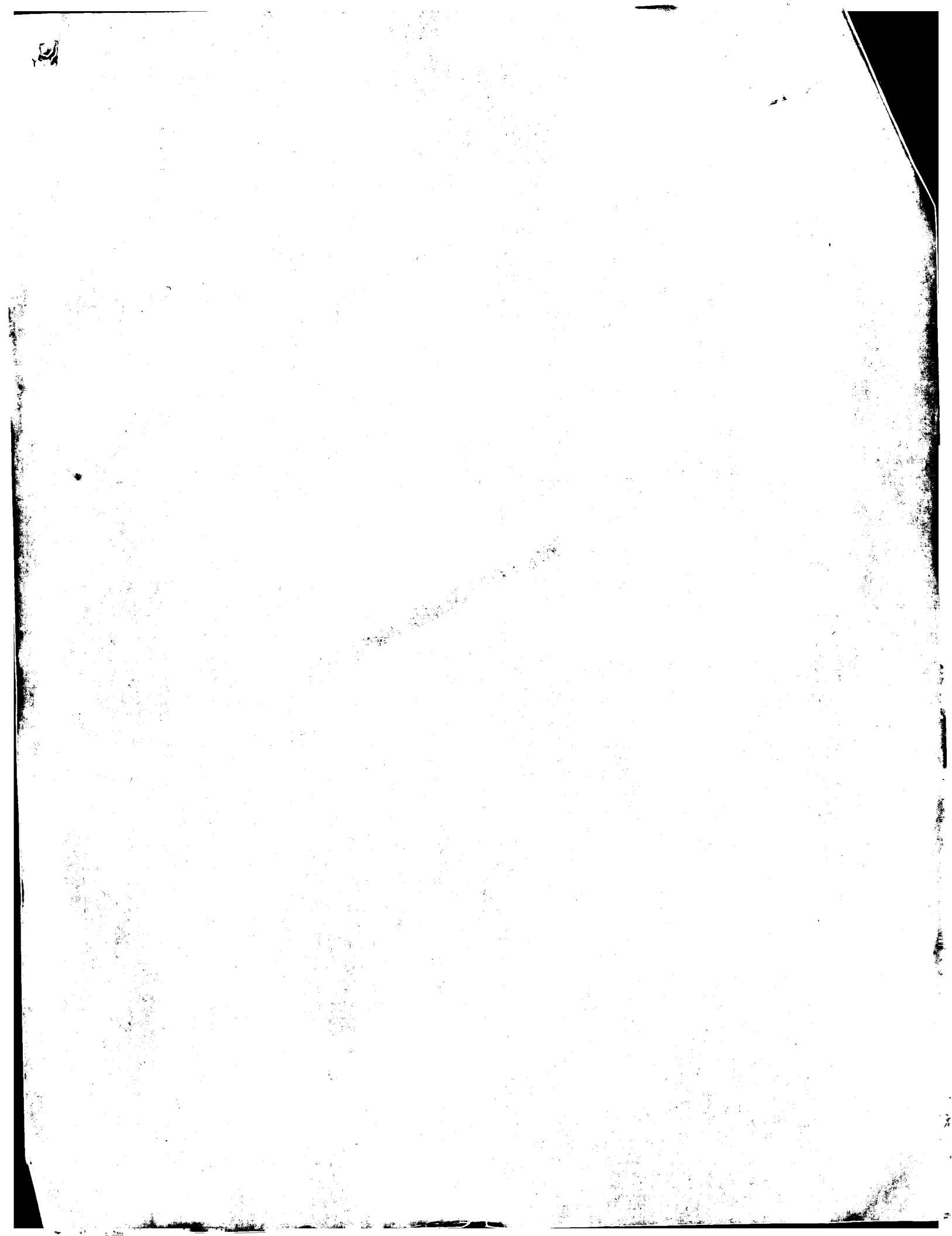


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HETATM51869	MG	MG	U	149	186.624	103.560	-43.129	1.16	45.03	UION
HETATM51870	MG	MG	U	150	185.373	96.567	-38.959	0.98	45.03	UION
HETATM51871	MG	MG	U	151	192.909	101.988	-31.586	1.35	45.03	UION
HETATM51872	MG	MG	U	152	196.671	102.806	-26.495	1.50	45.03	UION
HETATM51873	MG	MG	U	153	194.192	104.936	-30.770	1.63	45.03	UION
HETATM51874	MG	MG	U	160	112.451	25.150	-3.326	0.83	45.03	UION
HETATM51875	MG	MG	U	161	92.199	45.152	-15.133	0.91	45.03	UION
HETATM51876	MG	MG	U	162	84.361	59.020	-17.974	0.87	45.03	UION
HETATM51877	MG	MG	U	167	144.498	70.624	-7.609	1.41	45.03	UION
HETATM51878	MG	MG	U	169	134.617	54.957	6.012	1.58	45.03	UION
HETATM51879	MG	MG	U	170	118.947	64.537	20.987	0.97	45.03	UION
HETATM51880	MG	MG	U	174	200.161	97.713	-48.506	1.38	45.03	UION
HETATM51881	MG	MG	U	178	196.912	91.752	-40.938	1.45	45.03	UION
HETATM51882	MG	MG	U	183	203.101	120.092	13.450	0.77	45.03	UION
HETATM51883	MG	MG	U	186	255.305	124.216	-3.602	1.17	45.03	UION
HETATM51884	MG	MG	U	201	148.004	105.796	-18.856	1.27	45.03	UION
HETATM51885	MG	MG	U	210	116.505	98.325	-9.603	0.79	45.03	UION
HETATM51886	MG	MG	U	211	140.081	100.283	-43.419	1.11	45.03	UION
HETATM51887	MG	MG	U	212	147.818	111.569	-21.062	0.19	45.03	UION
HETATM51888	MG	MG	U	213	138.630	109.462	-17.685	0.74	45.03	UION
HETATM51889	MG	MG	U	214	145.764	90.979	26.327	0.93	45.03	UION
HETATM51890	MG	MG	U	215	136.086	111.367	12.629	0.95	45.03	UION
HETATM51891	MG	MG	U	216	172.366	93.170	17.819	1.13	45.03	UION
HETATM51892	MG	MG	U	217	154.130	103.354	45.593	0.96	45.03	UION
HETATM51893	MG	MG	U	218	177.037	98.187	22.141	0.91	45.03	UION
HETATM51894	MG	MG	U	219	172.437	98.773	15.407	0.97	45.03	UION
HETATM51895	MG	MG	U	220	185.490	96.257	6.531	0.88	45.03	UION
HETATM51896	MG	MG	U	221	134.663	85.854	-30.640	0.91	45.03	UION
HETATM51897	MG	MG	U	222	129.978	62.927	-29.339	0.58	45.03	UION
HETATM51898	MG	MG	U	223	130.546	79.732	-19.578	1.02	45.03	UION
HETATM51899	MG	MG	U	224	136.931	85.225	-24.110	0.40	45.03	UION
HETATM51900	MG	MG	U	225	102.124	45.301	-4.029	1.02	45.03	UION
HETATM51901	MG	MG	U	226	126.233	54.783	1.246	0.72	45.03	UION
HETATM51902	MG	MG	U	227	138.466	100.551	-13.033	0.65	45.03	UION
HETATM51903	MG	MG	U	228	109.460	34.549	19.255	0.74	45.03	UION
HETATM51904	MG	MG	U	229	115.336	46.637	7.443	1.01	45.03	UION
HETATM51905	MG	MG	U	230	108.924	56.313	2.608	0.27	45.03	UION
HETATM51906	MG	MG	U	231	111.344	54.100	-9.321	0.48	45.03	UION
HETATM51907	MG	MG	U	232	106.295	55.134	-0.810	0.61	45.03	UION
HETATM51908	MG	MG	U	233	111.357	54.204	-3.820	0.35	45.03	UION
HETATM51909	MG	MG	U	234	114.547	55.044	1.964	0.77	45.03	UION
HETATM51910	MG	MG	U	235	112.017	55.244	-1.493	0.87	45.03	UION
HETATM51911	MG	MG	U	236	111.922	56.427	-5.902	0.47	45.03	UION
HETATM51912	MG	MG	U	237	118.153	53.281	3.432	0.56	45.03	UION
HETATM51913	MG	MG	U	238	113.801	53.784	-1.697	0.80	45.03	UION
HETATM51914	MG	MG	U	239	116.664	55.223	-5.655	0.49	45.03	UION
HETATM51915	MG	MG	U	240	116.488	56.086	-9.345	0.48	45.03	UION
HETATM51916	ZN	ZN	U	190	216.533	127.200	24.681	0.81	53.86	UION
HETATM51917	ZN	ZN	U	300	154.111	113.284	39.995	1.40	53.86	UION

END







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